



## **APPENDIX A: EIA PROJECT TEAM CV'S**

# Curriculum Vitae – Bradly Thornton



## *Chief Executive Officer*

### **Professional Registration**

- South African Council for Natural Science Professionals (SACNASP) - Pending

### **Qualifications**

- Management Development Program, University of Stellenbosch Business School Executive Development, 2012
- B.Sc. Hons Environmental Management, RAU, 2004
- B.Sc. Geography & Geology, RAU, 2003

### **Languages**

- English – Fluent
- Afrikaans – Average

### **Countries Worked in**

- South Africa
- Botswana
- Namibia
- Malawi
- Democratic Republic of Congo
- Sierra Leone

Bradly is the CEO of Kongiwe Environmental (Pty) Ltd. He has 14 years' work experience in Environmental Management and Geographic Information Systems (GIS). His roles include the executive management responsibilities of Kongiwe Environmental, project management of client projects, client and business development, marketing and quality assurance and corporate compliance.

His skills include:

- ❖ Proven track record in project management of environmental projects to required quality standards, timeframes and budgets.
- ❖ Executive experience in business management and business development.
- ❖ Exceptional client relationship and managerial skills.
- ❖ Proactive leader and team player, flexible and versatile.
- ❖ 13 Years work experience in Environmental Management and Geographic Information Systems (GIS).

## PROJECT EXPERIENCE

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
<b>Environmental Authorisations</b>						
Ergo Mining: Reclamation and Reprocessing of the Valley Silts	2019-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Project Manager	Project management of EIA process
Ergo Mining: Reclamation and Reprocessing of the Soweto Cluster	2019-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Project Manager	Project management of EIA process
Ergo Mining: Reclamation and Reprocessing of the Marievale Dumps	2019-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Project Manager	Project management of EIA process
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Project Manager	Project management of EIA process
Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Project Manager	Project management of EIA process
Leslie 1 Project	2017-current	Mpumalanga Province, South Africa	Glencore Operations South Africa (Pty) Ltd	Environmental authorisation process for a coal mining project near Leandra	Project Manager	Project management of EIA process

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Umsimbithi eMakhazeni Mining Project	2017- current	Mpumalanga, South Africa	Umsimbithi Mining (Pty) Ltd	Environmental Authorisations for the proposed Umsimbithi Belfast Project	Project Director	Project management of EIA process
Lephalale Coal and Power Project	2017- current	Limpopo, South Africa	Dedicoal (Pty) Ltd	Environmental Authorisations for the proposed Lephalale Coal & Power Project	Project Director	Project management of EIA process
EIA for Road Re-Alignment at Tweefontein Phase 2	2015	Mpumalanga, South Africa	Glencore	EIA for Road Re-Alignment at Tweefontein Phase 2	Project Director	Project management of EIA process
Songwe Hill Rare Earth Project	2014	Malawi	Mkango Resources Ltd.	Songwe Hill Rare Earth Project ESHIA and input for Prefeasibility Report for stock exchange.	Project Manager	Project management of EIA process
Klipspruit Mine Extensions: Environmental Authorisations	2014	Mpumalanga, South Africa	South 32 (BHP Billiton Energy Coal South Africa)	Klipspruit Mine Extensions: Environmental Authorisations	Project Manager	Project management of EIA process
EIA for proposed Solar Power Plants	2012	Western & Northern Cape, South Africa	BSG Resources Ltd / Orlight SA (Pty) Ltd.	EIA for proposed Solar Power Plants	Consultant	Supervision of Visual Impact Assessments as specialist study component of the EIA, Input into EIA and GIS
ERGO EMPR upgrade	2008	Gauteng, South Africa	Crown Gold Recoveries / DRD Gold / ERGO Mining	ERGO EMPR upgrade	Project Manager	Project management of EMPR upgrade for Ergo gold processing plant
EMPR amendment for Mimosa Colliery	2008	Mpumalanga, South Africa	Northern Coal	EMPR amendment for Mimosa Colliery	Project Manager	Project Management of EMPR amendment

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
<b>Closure Costing</b>						
Annual Closure Cost Assessment	2013	Mpumalanga, South Africa	Glencore	Annual Closure Cost Assessment	Project Director	
<b>Environmental Control Officer</b>						
Raising of Tzaneen Dam	2016 - 2017	Limpopo Province, South Africa	Lepelle Northern Water Board	Raising of Tzaneen Dam wall to increase the dam's storage capacity	Environmental Control Officer	Environmental Officer duties which include environmental compliance site visits, managing of contractors and their procedures as per the EMP
<b>Auditing</b>						
GOSA 2019 Audits	2019	Mpumalanga, South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 60 Environmental Authorisations for the Coal operations in Mpumalanga	Project Director	Project Director and Lead Auditor
GOSA 2018 Audits	2018	Mpumalanga, South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Project Director	Project Director and Lead Auditor
GOSA 2017 Audits	2017	Mpumalanga, South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Project Director	Project Director and Lead Auditor

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Environmental Audit	2015	Mpumalanga, South Africa	Glencore Operations South Africa (Pty) Ltd	Environmental Audit	Project Director	Project Director and Lead Auditor
<b>Due Diligence</b>						
Environmental Liability	2014	Mpumalanga, South Africa	Xstract Mining Consultants	Environmental liability statement for Mineral Experts Report in support of demerger of an international mining company.	Project Manager	Project Manager
<b>GIS</b>						
Acid Mine Drainage project - Witwatersrand	2012	Gauteng, Johannesburg	TCTA	Acid Mine Drainage project - Witwatersrand	GIS Consultant	Supervision of GIS
Environmental services for Ivanplats mine.	2011	Limpopo, South Africa	Ivanplats	Environmental work for Ivanplats mine.	GIS Consultant	Supervision of GIS on various projects
Nzoro Hydropower Stations	2011	Democratic Republic of Congo	Randgold Resources	Nzoro Hydropower Stations	GIS Consultant	Supervision of GIS.
Hyperspectral Remote Sensing	2011	Limpopo, South Africa	Xstrata Coal South Africa	Hyperspectral Remote Sensing	Project Manager	Project management of remote sensing project to identify alien vegetation, hydrocarbon spillages and assessment of vegetation health.
Site Selection: Matla Coal	2010	Mpumalanga, South Africa	Exxaro Resources	Site Selection: Matla Coal	GIS Consultant	GIS: Site selection of suitable location for new brine ponds

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Koidu Mine Expansion	2010	Sierra Leone	Koidu Holdings	EIA for Koidu mine expansion	GIS Consultant	GIS support
Kibali Mining Project	2010	Democratic Republic of Congo	Randgold Resources	EIA for Kibali Mining Project	GIS Consultant	GIS support
Biodiversity Land Management Plans	2010	Mpumalanga, South Africa	Xstrata Coal South Africa	Biodiversity Land Management Plans	GIS Consultant	GIS supervision in development of GIS based biodiversity management plans
Thermal Remote Sensing	2010	Mpumalanga, South Africa	Xstrata Coal South Africa	Thermal Remote Sensing	Project Manager	Project management, thermal remote sensing for detection of spontaneous combustion on coal discard dumps
Khutala Lightning strike risk analysis	2009	Mpumalanga, South Africa	BHP Billiton Energy Coal South Africa	Khutala Lightning strike risk analysis	GIS Consultant	GIS based lightning risk analysis
Mmamabula Energy Projects	2009	Botswana	CIC Resources	Mmamabula Energy Projects	GIS Consultant	Supervision of GIS and technical inputs
EIA for Valencia Mine	2008	Namibia	Valencia Uranium	EIA for Valencia Mine	GIS Consultant	GIS and Visual Impact Assessment

## *Technical Director*

### **Professional Registration**

- South African Council for Natural Science Professionals (SACNASP) - 2009

### **Qualifications**

- Diploma Environmental Law, University of Johannesburg, 2005
- M.Sc. Environmental Management, RAU, 2004
- B.Sc. Hons Environmental Management, RAU, 2002
- B.Sc. Earth Sciences, RAU, 2001

### **Languages**

- English – Fluent
- French – Fluent
- German – Fluent
- Afrikaans – Average

### **Countries Worked in**

- South Africa
- Democratic Republic of Congo
- Mauritania

Gerlinde is an Environmental Consultant with over twelve years' work experience, predominantly in the mining industry. Her practical experience in the mining and construction industry has given her a depth of knowledge regarding project processes from pre-feasibility phases through to implementation. She is adept at working in different contexts, and problem-solving with her team to meet client needs. She has particular expertise in relation to Environmental Authorisation Processes in terms of the South African legal regime.

Her skills include:

- ❖ Project Management;
- ❖ Environmental Authorisations;
- ❖ Environmental Auditing;
- ❖ Environmental Control Officer; and
- ❖ Gap analyses and Due Diligences.



## PROJECT EXPERIENCE

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
<b>Environmental Authorisations</b>						
Sibanye Kloof EMP and IWUL Amendments	2019-current	Gauteng Province South Africa	Sibanye-Stillwater (Pty) Ltd	Amendment of eth existing EMP and IWUL	Technical Director	Project Management
Sibanye Driefontein EMP and IWUL Amendments	2019-current	Gauteng Province South Africa	Sibanye-Stillwater (Pty) Ltd	Amendment of eth existing EMP and IWUL	Technical Director	Project Management
Ergo Mining: Reclamation and Reprocessing of the Marievale Dumps	2019-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Technical Director	High-level Project Management
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Principal Environmental Consultant	EAP, IWULA, High- Level Project Management
Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Principal Environmental Consultant	EAP, IWULA , High- Level Project Management
Leslie 1 Project	2017-current	Mpumalanga Province, South Africa	Glencore Operation (Pty) Ltd	Environmental authorisation process for a coal mining project near Leandra	Principal Environmental Consultant	EAP, Project Manager. Managing specialists undertaking the specialist studies for the Environmental Impact Assessment

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Umsimbithi eMakhazeni Mining Project	2017-current	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Environmental authorisation process for a coal mining project near Belfast	Principal Environmental Consultant	EAP, Project Manager. Managing specialists undertaking the specialist studies for the Environmental Impact Assessment
Lephalale Coal and Power Project	2017-current	Limpopo Province, South Africa	Dedicoal (Pty) Ltd	Environmental authorisation process for the Lephalale Coal and Power Project	Principal Environmental Consultant	EAP, Project Manager. Managing specialists undertaking the specialist studies for the Environmental Impact Assessment
Exxaro Coal Underground Coal Gasification Project	October 2015 – May 2016:	Limpopo Province, South Africa	Exxaro Coal	Environmental Impact Assessment process for an underground coal gasification project	Environmental Consultant	Project Manager. Managing specialists undertaking the specialist studies for the Environmental Impact Assessment
Fumani Gold Mine	2013 -2015	Limpopo Province, South Africa	Corridor Mining Resources	Environmental Impact Assessment process for the proposed Fumani gold mine	Environmental Consultant	Managing consultants undertaking the EIA for the proposed Fumani gold mine
Kambove Copper Processing Plant	2013	Democratic Republic of Congo	Gécamines	Environmental, Social and Health Impact study (ESHIA) for the processing plant and tailings facilities	Environmental Consultant	Managing consultants undertaking the Environmental, Social and Health Impact study (ESHIA)
PV Pant Authorisation	2012	KwaZulu Natal Province, South Africa	GX Energie	Basic assessment process for a PV plant.	Environmental Consulting	Assisting with BA compilation and public participation

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Pering Mine	2009 - 2011	Northern Cape Province, South Africa	Minéro	Environmental Impact Assessment process for the proposed Reivilo lead and Zinc mine	Environmental Consultant	Compiling Scoping and EIA reports, public participation
Exxaro Coal Belfast Project	2008 -2011	Mpumalanga Province, South Africa	Exxaro Coal	Environmental authorisation process for the proposed Belfast Coal Mine	Environmental Consultant	Compiling Scoping and EIA reports, public participation
<b>Closure Costing</b>						
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Principal Environmental Consultant	Closure and Rehabilitation costing
Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Principal Environmental Consultant	Closure and Rehabilitation costing
Total Coal Mine Closure Application	July 2015 – June 2016	KwaZulu-Natal, South Africa	Total Coal	Mine closure application and Basic Assessment for the closure of the Steincoalspruit Coal Mine	Environmental Consultant	Project Manager, review of mine closure application document and Basic Assessment, client and authority liaison
Diesel Storage Facilities	2011	South Africa	Basil Read	EMP and closure costings for the installations of various diesel storage facilities	Environmental Consultant	EMP and closure costing

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
				throughout South Africa.		
<b>Environmental Control Officer</b>						
Tzaneen Dam - Environmental Control Officer	2017 – 2018	Tzaneen, Limpopo Province, South Africa	Department of Water & Sanitation	Raising of the Tzaneen dam Wall	Environmental Control Officer	Monthly monitoring of the construction activities and reporting
Black Rock Expansion Project - Environmental Control Officer	2013 – 2015	Northern Cape Province, South Africa	Assmang Black Rock	Black Rock Expansion Project	Environmental Control Officer	Environmental Officer duties which include environmental compliance site visits, managing of contractors and their procedures as per client's EMS
Sishen Ramp-Up Projects – Bucket & Bowl, Life of Mine and various Housing Projects	2011 – 2013	Northern Cape Province, South Africa	Kumba Iron Ore	Bucket & Bowl, Life of Mine and various Housing Projects	Environmental Control Officer	Environmental Officer duties which include environmental compliance site visits, managing of contractors and their procedures as per client's EMS
Sishen Ramp-Up Projects – Diesel Tanks 5 & 6, Aldag 1 extension, Lakutshona and Sesheng Housing Projects	2011 – 2013	Northern Cape Province, South Africa	Kumba Iron Ore	Diesel Tanks 5 & 6, Aldag 1 extension, Lakutshona and Sesheng Housing Projects	Environmental Control Officer	Environmental Officer duties which include environmental compliance site visits, managing of contractors and their

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
						procedures as per client's EMS
<b>Auditing</b>						
Sibanye 2019 External Audits	2019	Gauteng Province South Africa	Sibanye-Stillwater (Pty) Ltd	External audits of EMPR's for the operations in Gauteng	Technical Director	Project Management, client liaison, technical review
GOSA 2019 Audits	2019	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 60 Environmental Authorisations for the Coal operations in Mpumalanga	Environmental auditor	External Audit
GOSA 2018 Audits	2018	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Environmental auditor	External Audit
GOSA 2017 Glencore	2017	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Environmental auditor	External Audit
Cronimet Legal Compliance	2012-2013	Limpopo Province, South Africa	Cronimet	Legal compliance auditing of Cronimet mine	Environmental auditor	Monthly environmental auditing of chrome mine facilities
PPC Legal Compliance	2005 - 2008	South Africa	PPC	Legal compliance auditing of various quarries across South Africa	Environmental auditor	Monthly environmental auditing of chrome mine facilities

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
<b>Due Diligence</b>						
Zonnebloem Complex	2018 – current	Mpumalanga Province South Africa	Glencore Operation (Pty) Ltd	Gap Analysis	Principal Environmental Consultant	Environmental Legal Gap Analysis
Eastplats Due Diligence	2014	North West Province, South Africa	Eastplats	An environmental legislative overview with an associated environmental site assessment, which in turn assessed the availability and status of the various environmental authorizations, permits and licenses required for legislative compliance at the Eastern Plat Asset.	Environmental Consultant	Compiling environmental due diligence
PTM Waterberg Project Concept Study	2013	Limpop Province, South Africa	Platinum Group Metals	Concept study for Platinum mine in the Waterberg.	Environmental Consultant	Environmental input into the Preliminary Economic Assessment

## *Legal Director*

### **Qualifications**

- B.A. (English Literature and Philosophy), University of Natal, 1973
- LL.B., University of Natal, 1975
- B.Com. (Hons.), University of South Africa, 1984

### **Languages**

- English – Fluent
- Afrikaans - Fluent
- Dutch – Conversational

### **Countries Worked in**

- South Africa
- UK (4 years)
- Work experience in Russia, China, Colombia, Japan, South Korea and various European countries

Michael is the Legal Director at Kongiwe Environmental (Pty) Ltd. He has had more than 35 years' experience in the Resources industry, including coal and oil. He has run his own consultancy focussed on mining title and project development. His particular expertise lies in Mining and Environmental Law, in particular, the application of mining and environmental legislation to new prospecting and mining projects.

His skills include:

- ❖ Applications for Prospecting and Mining Rights;
- ❖ Environmental Authorisations;
- ❖ Legal Opinions on Mining and associated Projects; and
- ❖ Gap analyses and Due Diligences.

## PROJECT EXPERIENCE (Since 2011)

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
<b>Prospecting Rights</b>						
Gold tailings retreatment	Various applications between 2011 - 2015	Gauteng Province, South Africa	DRDGold	Applications for prospecting rights on tailings dams	Project Manager	Compilation of all documentation, submission of applications
Agnes Gold Mine	2011	Mpumalanga Province, South Africa	Galaxy Mining Resources	Application for two prospecting rights on greenfields areas	Project Manager	Compilation of all documentation, submission of applications
Temo Coal	2013	Limpopo Province, South Africa	Namane Resources	Application for two prospecting rights on greenfields areas	Project Manager	Compilation of all documentation, submission of applications
Platinum	2015	Limpopo Province, South Africa	Anglo Platinum	Application for renewal of three prospecting rights	Project Manager	Compilation of all documentation, submission of applications
Gold	2014	Gauteng Province, South Africa	DRDGold	Renewal of Prospecting Right	Project support	Submission of renewal application
<b>Mining Rights</b>						
Platinum project	2011 - 2013	Limpopo Province, South Africa	Plat Reef Resources	Application for mining rights on greenfields area	Project support	Compilation of all documentation, submission of applications
Coal mine development	2011	Limpopo Province, South Africa	Namane Resources	Application for mining rights on Greenfields area	Project Support	Compilation of all documentation, submission of applications
Coal mine development	2011	Limpopo Province, South Africa	Coal of Africa	Mining work programme	Project support	



Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Gold mine project	2015	Mpumalanga Province, South Africa	Galaxy Gold	Application for mining rights to re-develop historic gold mine	Project support	Compilation of all documentation, submission of applications
Coal mine development	2011	Limpopo Province, South Africa	Resgen Resources	Application for mining rights on Greenfields area	Project Support	Compilation of all documentation, submission of applications
Sand mine	2014	Free State Province, South Africa	Copper Sunset Sand	Application for mining right	Project Manager	Compilation of all documentation, submission of applications
Chrome and Platinum Project	2015	Limpopo Province, South Africa	VMIC	Application for mining rights on Greenfields area	Project Support	Compilation of all documentation, submission of applications
Coal mine	2016	Gauteng Province, South Africa	Oakleaf	Application for mining rights on Greenfields area	Project Support	Compilation of all documentation, submission of applications
<b>Environmental Authorisations</b>						
Ergo Mining: Reclamation and Reprocessing of the Marievale Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Project support	Review of Specialist reports and final EIA/EMP
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Project support	Review of Specialist reports and final EIA/EMP
Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Project support	Review of Specialist reports and final EIA/EMP

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Leslie 1 Project	2017-current	Mpumalanga Province, South Africa	Glencore Operation (Pty) Ltd	Environmental authorisation process for a coal mining project near Leandra	Project support	Review of Specialist reports and final EIA/EMP
Umsimbithi eMakhazeni Mining Project	2017-current	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Environmental authorisation process for a coal mining project near Belfast	Project support	Review of Specialist reports and final EIA/EMP
Lephalale Coal and Power Project	2017-current	Limpopo Province, South Africa	Dedicoal (Pty) Ltd	Environmental authorisation process for the Lephalale Coal and Power Project	Project support	Review of Specialist reports and final EIA/EMP
Agnes Gold mine	2016	Mpumalanga Province, South Africa	Galaxy Gold	Amended EIA/EMP for existing gold mine	Project support	Review of Specialist reports and final EIA/EMP
Lead/zinc mine	2015	Northern Cape Province, South Africa	Vedanta	Full EIA/EMP for new mine	Project support	Review of Specialist reports and final EIA/EMP
Mawetse Gold project	2016	Limpopo Province, South Africa	Mawetse Mining	Full EIA/EMP for new mine	Project Manager	Co-ordinate specialist reports, Review final EMP
Sand mine	2016	Free State Province, South Africa	Copper Sunset Sand	Full EIA/EMP for extension to mining right area	Project support	Review final EMP
<b>Legal Opinions</b>						
Rooikat	2013	Northern Cape Province, South Africa	Advisian	Opinion on application of MPRDA for mineral extraction	Project Manager	Draft and submit Legal Opinion on application of MPRDA for mineral extraction
Waste licence	2016	Free State Province, South Africa	Muva Group	Opinion on application of NEMA and Listed Activities	Project Manager	Draft and submit Legal Opinion on application of NEMA

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Mining claims	2016	Limpopo Province, South Africa	Triangle City	Opinion on application of MPRDA to historic claims and tailings	Project Manager	Draft and submit Legal Opinion
NEMA amendments	2014	Gauteng Province	Digby Wells	Analysis of 2014 NEMA Regulations	Project Manager	Draft and submit Legal Opinion
Application of NEMA Regulations to a powerline	2015	Gauteng Province	TCTA	Opinion on whether NEMA Regulations apply to particular power line	Project Manager	Draft and submit Legal Opinion
Variation of mining right	2015	Limpopo Province South Africa	Resgen Resources	Advice on application of Section 102 of MPRDA	Project Manager	Draft and submit Legal Opinion
<b>Auditing</b>						
GOSA 2019 Audits	2019	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 63 Environmental Authorisations for the Coal operations in Mpumalanga	Project support	Report review
GOSA 2018 Audits	2018	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Project support	Report review
GOSA 2017 Glencore	2017	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Project support	Report review
Coal mines	2014, 2015	Mpumalanga Province South Africa	Total Coal	Audit of compliance with permits and licences	Project support	Report review
Power line	2016	Mpumalanga Province South Africa	Eskom	Audit compliance with EIA and water use licence	Project support	Compile EIA Report, review consolidated report

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Coal mines	2015, 2016	Mpumalanga Province South Africa	Exxaro	Audit of compliance with permits and licences	Project support	Report review
Coal mines	2014, 2015	Mpumalanga Province South Africa	Glencore	Audit of compliance with permits and licences	Project support	Report review
<b>Due Diligence</b>						
Mining and environmental authorisations	2017	International project	Advisian	International project	Legal Adviser	Undertake legislative and regulatory review
Mining and environmental authorisations	2017	International project	Advsian	International project	Legal Adviser	Undertake legislative and regulatory review
Coal	2014	Limpopo Province, South Africa	Dedicoal	Verification of prospecting rights	Legal Adviser on mining title	Undertake review on validity of prospecting rights

### Professional Registration

- Registered South African Council for Natural Science Professionals (SACNASP)

### Qualifications

- MSc Soil Science at the University of Pretoria, course is ongoing
- BSc. Hons Conservation Ecology, University of Stellenbosch, Completed in 2015

### Languages

- English – Fluent
- Afrikaans – Fluent

### Countries Worked in

- South Africa
- Zimbabwe

Ashleigh is a registered SACNASP Environmental Consultant with 4 years working experience in the Environmental Sector. Being multiskilled within her role, Ashleigh is responsible for managing projects requiring authorisation, permitting and licencing. Her responsibilities include managing and overseeing project implementation, timeframes and budgets, junior team members and reporting within Kongiwe Environmental. Ashleigh completed her BSc (Hons) in Conservation Ecology at the University of Stellenbosch and is currently completing her MSc at the University of Pretoria. She is a registered member of the Soil Science Society of South Africa (SSSSA) and has attended certified workshops and training courses in Environmental Law, Environmental Waste Act Enforcement, Soil Surveyance and Soil Classification and Section 21 Water use Licencing. Her core responsibilities include:

- ❖ Project Implementation;
- ❖ Project Management;
- ❖ Project Risk Assessment;
- ❖ Environmental Impact Reporting;
- ❖ Report review;
- ❖ Proposal Preparations;
- ❖ Client and Stakeholder Engagement;
- ❖ Environmental Auditing; and
- ❖ Soils, Land Use and Agricultural Reporting.

## PROJECT EXPERIENCE

Project	Project Status / Date	Locations	Client	Project Description	Positions Held	Activities performed by the proposed candidate
<b>Environmental Authorisations (EA's)</b>						
Raubex Phase 1 and 2 Beitbridge Border Expansion Project	2019 - Current	Zimbabwe	Raubex JV (Pty) Ltd	Project Management Services	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties
Crown Gold Recoveries (Pty) Ltd: Reclamation of the Soweto Cluster Dumps	2019 - current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties
Ergo Mining (Pty) Ltd: The Valley Silts Project	2019 - current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties
eMakhazeni integrated Water Use Licence	2019 - Current	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Integrated Water Use Licence Application (IWULA)	Project Manager and Peer Review, Environmental Consultant	Project Manager, Peer review and to undertake the IWULA process
Ergo Mining: Reclamation and Reprocessing of the Marievale Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties
Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties

Project	Project Status / Date	Locations	Client	Project Description	Positions Held	Activities performed by the proposed candidate
Umsimbithi eMakhazeni Mining Project	2017-2018	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Environmental authorisation process for a coal mining project near Belfast	Project Manager and Environmental Consultant	Managing the project, Compile EIA/EMPr, managing specialists undertaking the specialist studies for the Environmental Impact Assessment
Tanganani Bulk Infrastructure Project	2017 - 2018	Johannesburg, Gauteng Province	Gauteng Department of Human Settlements	Environmental Authorisations for the Tanganani Bulk Infrastructure Project in the City of Johannesburg, Gauteng.	Project Manager and Environmental Consultant	Project Manager and EAP duties
Olifantshoek Substation and Powerline	2017	Olifantshoek, Northern Cape Province	Eskom	Environmental Impact Assessment process for an underground coal gasification project	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties
REDISA Pre-processing Waste Tyre Depot	2017	Mpumalanga, KwaZulu-Natal, Nelspruit Provinces, South Africa	The Recycling and Economic Development of South Africa	Environmental Impact Assessment process for the proposed Fumani gold mine	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties
Scuitdrift Solar Energy Facility	2017	Scuitdrift, Northern Cape Province	Building Energy	Basic assessment process for watercourse crossing and intended road upgrades to the Klawer Wind Energy Facility	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties
Klawer Watercourse Crossings	2017	Klawer, Western Cape	Building Energy	Basic assessment process for watercourse crossing and intended road upgrades to the	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties

Project	Project Status / Date	Locations	Client	Project Description	Positions Held	Activities performed by the proposed candidate
				Klawer Wind Energy Facility		
Lehae Training Academy and Fire Station	Ongoing	Lehae, Gauteng Province	Delta BEC on behalf of the JDA	Basic Assessment Process	Project Manager and Peer Review, Environmental Consultant	Project Manager and EAP duties
<b>Soils Reporting</b>						
Leslie 1 Coal Project	March 2018 - Present	Mpumalanga Province, South Africa	Anglo Operations South Africa (Pty) Ltd	Soil Impact Assessment	GIS Consultant	Soil Impact Assessment
H2 Energy Power Station	2017	Mpumalanga Province, South Africa	H2 Clean Energy (Pty) Ltd	Soil, Land-Use and Agricultural Potential Reporting	Soils Specialist	Completion of a Soils Scoping report
Orkney Solar Farm	2016	North West Province, South Africa	Genesis Orkney Solar (Pty)	Soil, Land-Use and Agricultural Potential Reporting	Soils Specialist	Completion of a Soils Scoping report
Richards Bay Gas to Power	2016	Richards Bay, Kwa-Zulu Natal Province	Eskom	Soil and Agricultural Screening Study	Soils Specialist	Completion of a Soils Scoping report
<b>Other Applications, Permitting and Licences</b>						
Section 53 Application for the Suurplaat Wind Energy Facility	2016	Northern and Western Cape Provinces, South Africa	Moyeng Energy (Pty) Ltd	Compilation of the Section 53 Application	Environmental Consultant	Compilation of the Section 53 Application, Client Liason and Authority Liason
Section 53 Application for the Tshivhaso Coal-Fired Power Station, Limpopo	2016	Lephalale, Limpopo Province	Exxaro	Compilation of the Section 53 Application	Environmental Consultant	Compilation of the Section 53 Application, Client Liason and Authority Liason



Project	Project Status / Date	Locations	Client	Project Description	Positions Held	Activities performed by the proposed candidate
Section 53 Application Thabametsi Coal water pipeline, Limpopo	2017	Lephalale, Limpopo Province	Exxaro	Compilation of the Section 53 Application	Environmental Consultant	Compilation of the Section 53 Application, Client Liason and Authority Liason
Section 24G Ramification Application for Hossam Soror	Ongoing	Randburg, Gauteng Province	Soror Language Services cc	Compilation of the Section 24 G Application	Environmental Consultant	Compilation of the Section 24 G Application, Client Liason and Authority Liason
<b>Due Diligence</b>						
Water Use License Due Dilligence	2016	Gauteng Province	Joburg Property Company	Review of the WUL	Environmental Consultant	Review of the WUL, Identification of conformances and non-conformances, advisory
<b>GIS Mapping</b>						
Hopetown 75MW PV facility	2016	Northern Cape Province, Gauteng Province	Not Disclosed	GIS Mapping	Environmental Consultant	Locality Mapping and Site mapping
Richards Bay Gas to Power Facility	2016	Richards Bay, Kwa-Zulu Natal Province	Eskom	GIS Mapping	Environmental Consultant	Locality Mapping and Site mapping
Skuitdrift Solar Project	2016	Scuitdrift, Northern Cape Province	Building Energy	GIS Mapping	Environmental Consultant	Locality Mapping and Site mapping
Orkney Solar Facility Soil and Agricultural Report	2016	North West Province, South Africa	Genesis Orkney Solar (Pty)	GIS Mapping	Environmental Consultant	Locality Mapping and Site mapping
Palese Soil and Agricultural Scoping Report	2016	Mpumalanga Province, South Africa	H2 Clean Energy (Pty) Ltd	GIS Mapping	Environmental Consultant	Locality Mapping and Site mapping

Project	Project Status / Date	Locations	Client	Project Description	Positions Held	Activities performed by the proposed candidate
Richards Bay Gas to Power Soil and Agricultural Screening Study	2016	Richards Bay, Kwa-Zulu Natal Province	Eskom	GIS Mapping	Environmental Consultant	Locality Mapping and Site mapping
<b>Environmental Auditing</b>						
GOSA 2019 External Environmental Audits.	2019	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of EA's, EMPr's and WUL for Glencore's the Coal operations in Mpumalanga	Lead Environmental Auditor	External Audit
GOSA 2019 External Environmental Audits.	2018	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Environmental auditor	External Audit
GOSA 2019 External Environmental Audits.	2017	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Environmental auditor	External Audit

## *Stakeholder Engagement/Social Consultant*

### **Professional Registration**

- International Association for Public Participation Practitioners, Southern Africa (IAP2- Southern Africa)

### **Qualifications**

- Post Graduate Diploma- Social Impact Assessment- University of Johannesburg - current,
- BA Hons. Anthropology, University of Johannesburg, 2009 ;
- BA Health Psychology, University of Johannesburg, 2008

### **Languages**

- English – Fluent
- IsiZulu – Fluent
- SeSotho– Fluent
- SeTswana – Fluent

### **Countries Worked in**

- South Africa

Sibongile Bambisa holds a BA Hons. Anthropology and BA Health Psychology. Her expertise involves the planning and the execution of the public participation processes for Environmental Impact Assessment projects and other applications.

As a Stakeholder Engagement / Social Consultant, her duties include identifying and consulting with Interested and Affected Parties, liaising with organs, dissemination of project information to stakeholders to obtain their comments and conducting Social Impact Assessments.

Her skills include:

- ❖ Stakeholder engagement;
- ❖ Community awareness campaigns;
- ❖ Facilitation of community outreach activities;
- ❖ Social Impact Assessments; and
- ❖ Social and Labour Plans

## PROJECT EXPERIENCE

Project	Dates	Location	Client	Project Description	Positions Held	Activities Performed
<b>Environmental Authorisations Stakeholder Engagement</b>						
Ergo Mining: Reclamation and Reprocessing of the Marievale Dumps	2019-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports, information materials i.e. (Background, media advert, site notices and notification letters)
Crown Gold Recoveries (Pty) Ltd: Reclamation of the Soweto Cluster Dumps	2019 - current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports, information materials i.e. (Background, media advert, site notices and notification letters)
Ergo Mining (Pty) Ltd: The Valley Silts Project	2019 - current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports, information materials i.e. (Background, media advert, site notices and notification letters)
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports, information materials i.e.

Project	Dates	Location	Client	Project Description	Positions Held	Activities Performed
						(Background, media advert, site notices and notification letters)
Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports, information materials i.e. (Background, media advert, site notices and notification letters)
Leslie 1 Project	2017-current	Mpumalanga Province, South Africa	Glencore Operation (Pty) Ltd	Environmental authorisation process for a coal mining project near Leandra	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports, information materials i.e. (Background, media advert, site notices and notification letters)
Umsimbithi eMakhazeni Mining Project	2017-current	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Environmental authorisation process for a coal mining project near Belfast	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports, information materials i.e. (Background, media advert, site notices and notification letters)
KiPower's proposed construction of a 600 Mega Watt IPP plant in Delmas	2014-2015	Mpumalanga Province, South Africa	Ki Power (Pty) Ltd	Environmental Impact Assessment and Water Use Licence for the proposed construction of a 600 Mega Watt IPP plant.	Public Participation Practitioner	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports, information materials i.e. (Background, media advert, site notices and notification letters)

Project	Dates	Location	Client	Project Description	Positions Held	Activities Performed
South 32 (Pty) Limited 's proposed extension of Klipfontein opencast operations and associated closure of a section of the D253 road	2015-2016	Mpumalanga Province, South Africa	South 32 (Pty) Limited	Environmental Impact Assessment for the proposed extension of Klipfontein opencast operations	Public Participation Practitioner	Identification and consultation with Interested and Interested Parties; Compilation of Public participation reports and information materials i.e. (Background, media advert, site notices and notification letters)
Basic Assessment for the development of walkways to relocate a dragline	2013	Mpumalanga Province	Glencore South Africa	Development of walkways to relocate a dragline for the Tweefontein and Impunzi Coal mining operations	Public Participation Practitioner	Identification and consultation with Interested and Interested Parties; Compilation of Public participation reports and information materials i.e. (Background, media advert, site notices and notification letters)
Environmental Impact Assessment and Waste Management Licence Delmas coal mine	2014-2015	Mpumalanga Province	Delmas Coal	Proposed extension of the underground coal mining area, and rehabilitating and upgrading of the coal discard disposal facility and the existing pollution control dams at Delmas coal mine	Public Participation Practitioner	Consultation with Interested and Affected Parties; Compilation of Public participation reports and information materials i.e. (Background, media advert, site notices and notification letters)
Inkomati Water Resource Classification Study and Letaba Water Resource Classification Study	2013-2014	Mpumalanga Province and Limpopo Province	Department of Water and Sanitation	Water Resource Classification study for Inkomati Catchment and Letaba	Assistant Public Participation Practitioner	Compilation of the stakeholder database, arranging for public meeting; compilation of minutes

Project	Dates	Location	Client	Project Description	Positions Held	Activities Performed
<b>Social Impact Assessments</b>						
Ergo Mining: Reclamation and Reprocessing of the Marievale Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Social Specialist	Social Impact Assessment
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Social Specialist	Social Impact Assessment
Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Social Specialist	Social Impact Assessment
Leslie 1 Project	2017-current	Mpumalanga Province, South Africa	Glencore Operation (Pty) Ltd	Environmental authorisation process for a coal mining project near Leandra	Social Specialist	Social Impact Assessment
<b>Social and Labour Plan</b>						
Lephalale Coal and Power Project	2017-current	Limpopo Province, South Africa	Dedicoal (Pty) Ltd	Environmental authorisation process for the Lephalale Coal and Power Project	Social Specialist	Social and Labour Plan
<b>Community Awareness</b>						
Water Conservation Awareness Campaign for Orange Farm Residents	2017	Gauteng	Johannesburg Water	Social Facilitation for Water Conservation Awareness Campaign	Social Facilitator	Compilation of the Knowledge, Attitude and Perceptions (KAP) Survey and reports Stakeholder Engagement; Provide training on water conservation and water demand management strategy
Water Conservation and	2017	Limpopo Province	Association for Water and Rural	Community Awareness	Social Facilitator	Conduct KAP-Surveys; Stakeholder engagement activities

Project	Dates	Location	Client	Project Description	Positions Held	Activities Performed
Demand Management Strategy for Ba-Phalaborwa and Hoedspruit Local Municipalities			Development (AWARD)	programme for Water Conservation and Water Demand Management for Ba-Phalaborwa and Hoedspruit Local Municipalities.		Compilation of Social Reports.
Casa Mia project	2017	Gauteng	Johannesburg Social Housing Agency (JOSHCO)	Social facilitation services for the renewal of Casa Mia building in Berea	Social Facilitator	Source candidates for the Extended Public Works Programme (EPWP); Compile EPWP reports.



## *Environmental and GIS Consultant*

### **Professional Registration**

-South African Geomatics Council (SAGC) - 2016

### **Qualifications**

- BSc Geoinformatics, University of Pretoria, 2013
- BSc (Hons) Environmental Management, UNISA (currently undertaking)

### **Languages**

- English – Fluent
- IsiNdebele – Fluent
- Setswana– Fluent

### **Countries Worked in**

- South Africa
- Madagascar
- Ivory Coast
- Namibia

Nokuthula is a SAGC registered environmental and GIS consultant with 6 years' experience in the consulting industry. She graduated with a BSc degree in Geoinformatics from University of Pretoria in 2013. Her main focus is providing specialist GIS consulting services that have been primarily for the mining and exploration industries, specifically for environmental management, engineering, locational planning and management objectives.

Her skills include:

- ❖ Project Management;
- ❖ Environmental Compliance Auditing;
- ❖ Visual Impact Assessments;
- ❖ Creating and managing GIS databases;
- ❖ Map Production of IWULA, EIAs, Geophysics studies, specialist reports and assessments;
- ❖ Liaising with data suppliers (locally and other African Countries); and
- ❖ Data broking- sourcing of geological and satellite imagery remotely.

## PROJECT EXPERIENCE

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
<b>Visual Impact Assessments</b>						
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	GIS Consultant	Visual Impact Assessment
Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	GIS Consultant	Visual Impact Assessment
Leslie 1 Coal Project	March 2018 – September 2018	Mpumalanga Province, South Africa	Anglo Operations South Africa (Pty) Ltd	Visual Impact Assessment	GIS Consultant	Visual Impact Assessment
Umsimbithi eMakhazeni Coal Mining Project	September 2017 – May 2018	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Visual Impact Assessment	GIS Consultant	Visual Impact Assessment
Eloff Coal Mine	April 2015 – May 2016:	Mpumalanga Province, South Africa	Eloff Mining Company (Pty) Ltd	Environmental Impact Assessment for the extension of the Eloff mine	GIS Technologist	Site visit and visual impact analysis of the proposed extension.
Reitkuil Mine	2013 -2015	Mpumalanga Province, South Africa	Reitkuil Mine	Environmental Impact Assessment process for the proposed extension of the Reitkuil Mine	GIS Technologist	Receptor identification using Google Earth pro within 10km buffer of the site, identify landscape characteristics of the site, Site visit to validate desktop study results (in-situ data collection)
Exxaro Coal Belfast Project	2014 -2016	Mpumalanga Province, South Africa	Exxaro Coal	Environmental authorisation process	GIS Technologist	Compiling Scoping and EIA reports, public participation maps

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
				for the proposed Belfast Coal Mine		
<b>Closure Costing</b>						
Total Coal Mine Closure Application	July 2015 – June 2016	KwaZulu-Natal, South Africa	Total Coal	Mine closure application and Basic Assessment for the closure of the Steincoalspruit Coal Mine	GIS Technologist	Closure cost infrastructure mapping and calculations.
Scorpion Zinc Financial Provision	2013	South Africa	Scorpion Zinc	Closure cost calculations of existing mine in South Africa.	GIS Technologist	EMP and closure costing mapping and infrastructure calculations
<b>Groundwater and Surface Water</b>						
Oumjarane Dewatering	2014 – 2016	Morocco, North Africa	Oumjarane	Groundwater hydrology investigation	GIS Technologist	Mapping Hydrocensus Boreholes. Hydrology map which includes DEM, Maider Basement Catchment delineation. Mapping temperature and conductivity points for the Hydrocensus points of the site
Exxaro Leeuwpan Groundwater and Surface water Study	2013 – 2016	Mpumalanga Province, South Africa	Exxaro Mine	Groundwater and surface water investigation for the proposed Exxaro Mine expansion	GIS Technologist	Floodline Mapping and sub-catchment mapping
<b>Site Selection</b>						
Molo Granite	2014-2015	Madagascar, southeast coast of Africa	DRA	Site selection for proposed Granite Mine	GIS Technician	Site selection analysis and specialist mapping

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
HCV and HCS Project	Current	Ivory Coast	Montrose Environmental	HCV and HCS Screening of 3 sites	GIS technologist	Aerial Imagery sourcing, Mapping of HCV and HCS assessment results
<b>Contamination</b>						
Transnet Pipelines - Geohydrological and a contaminated land assessment - mapping for 30 Transnet Facilities	2014-2016	South Africa	Transnet	Geohydrological and a contaminated land assessment	GIS Technologist	Created Buffers zones around contaminated sites and mapping the sensitive maps. Database design and maintenance of depot metadata captured for all 30 sites. Merging old version Boreholes with updated borehole data into one database.
<b>Environmental Auditing</b>						
GOSA 2019 Audits	2019	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Environmental and GIS Consultant	Project Manager, technical review, auditing
GOSA 2018 Audits	2018	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Environmental auditor	External Audit
GOSA 2017 Glencore	2017	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Environmental auditor	External Audit

## *Environmental Consultant*

### **Professional Registration**

- Candidate South African Council for Natural Science Professionals (SACNASP) - 2018

### **Qualifications**

- B.Sc. Hons Geography and Environmental Science, University of Pretoria, 2017
- B.Sc. Geography, University of Pretoria 2016

### **Languages**

- IsiXhosa – Fluent
- English – Fluent
- IsiZulu – Fluent
- Sesotho – Fluent
- SeTswana – Basic
- Afrikaans - Basic

### **Countries Worked in**

- South Africa

Siphesihle is an Environmental Consultant at Kongiwe Environmental. He has a B.Sc. Honours in Geography and Environmental Science from the University of Pretoria. He is involved in all projects with duties ranging from water use licencing and environmental auditing.

His skills include:

- ❖ Environmental Compliance Auditing;
- ❖ Environmental impact reporting; and
- ❖ Water Use Licensing.

## PROJECT EXPERIENCE

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
<b>Environmental Authorisations</b>						
Ergo Mining: Reclamation and Reprocessing of the Marievale Dumps	2019-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Environmental Consultant	Scoping Report and Integrated Water Use Licence
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Environmental Consultant	Scoping Report and Integrated Water Use Licence
Leslie 1 Project	2017-current	Mpumalanga Province, South Africa	Glencore Operation (Pty) Ltd	Environmental authorisation process for a coal mining project near Leandra	Environmental Consultant	Assisting with Public Participation, GIS
Umsimbithi eMakhazeni Mining Project	2017-current	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Environmental authorisation process for a coal mining project near Belfast	Environmental Consultant	Assisting with Public Participation, GIS
Lephalale Coal and Power Project	2017-current	Limpopo Province, South Africa	Dedicoal (Pty) Ltd	Environmental authorisation process for the Lephalale Coal and Power Project	Environmental Consultant	Assisting with Public Participation and GIS
<b>Water Use Licensing</b>						
Crown Gold Recoveries (Pty) Ltd: Reclamation of the Soweto Cluster Dumps	2019 - current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Environmental Consultant	Integrated Water Use Licence
Ergo Mining (Pty) Ltd: The Valley Silts Project	2019 - current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Environmental Consultant	Integrated Water Use Licence
eMakhazeni integrated Water Use Licence	2019 - Current	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Integrated Water Use Licence Application (IWULA)	Environmental Consultant	Integrated Water Use Licence

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
<b>Auditing</b>						
Sibanye Stillwater 2019 External Environmental Auditing	2019	Gauteng Province South Africa	Sibanye Stillwater (Pty) Ltd	External Audits for 2 EA's, 11 EMPr's for Sibanye Gold operations in Gauteng.	Environmental Auditor	External Audit
GOSA 2019 External Environmental Audits.	2019	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of EA's, EMPr's and WUL for Glencore's the Coal operations in Mpumalanga	Environmental Auditor	External Audit
GOSA 2018 Audits	2018	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Environmental Auditor	External Audit
GOSA 2017 Glencore	2017	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of 47 Environmental Authorisations for the Coal operations in Mpumalanga	Environmental Auditor	External Audit
<b>Risk Assessments</b>						
Matlwang Agric Cooperative Fish Farm	2018	North-West Province South Africa	Matlwang Agric Cooperative	Risk Assessment as part of a permit for Tilapia farming.	Environmental Consultant	Report writing, client liaison
<b>Environmental Monitoring</b>						
Leslie 1 Project	2018-current	Mpumalanga Province, South Africa	Glencore Operation (Pty) Ltd	Environmental authorisation process for a coal mining project near Leandra	Environmental Consultant	Dust monitoring and reporting
Umsimbithi eMakhazeni Mining Project	2017-2018	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Environmental authorisation process for a coal mining project near Belfast	Environmental Consultant	Dust monitoring and reporting

## *Environmental Consultant*

### **Professional Registration**

- Candidate South African Council for Natural Science Professionals (SACNASP) - 2019

### **Qualifications**

- M.Sc. Environmental Management, University of Johannesburg, 2018
- B.Sc. Hons Geography, University of Johannesburg, 2016
- B.Sc. Life and Environmental Science, University of Johannesburg, 2015

### **Languages**

- English – Fluent
- Afrikaans – Fluent

### **Countries Worked in**

- South Africa

Foord is an Environmental Consultant at Kongiwe Environmental. He has completed an M.Sc. in Environmental Management and has previous field and data collection experience with environmental noise. He is assisting on all major projects with duties ranging from research and reporting to field visits to stakeholder engagement.

Foord has experience in the mining industry. His responsibilities range from environmental impact reporting, air quality monitoring, visual impact assessments, closure costing, environmental auditing, legal permitting and licensing and public participation.

His skills include:

- ❖ Environmental Compliance Auditing;
- ❖ Environmental impact reporting; and
- ❖ Closure costing.



## PROJECT EXPERIENCE

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
<b>Environmental Authorisations (EA's)</b>						
Crown Gold Recoveries (Pty) Ltd: Reclamation of the Soweto Cluster Dump	2019-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisation and IWULA	Environmental Consultant	Scoping report
Ergo Mining: Reclamation of Valley Silts	2019-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisation and IWULA	Environmental Consultant	Scoping report
<b>Visual Impact Assessment</b>						
Ergo Mining: Reclamation and Reprocessing of the Marievale Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Environmental Consultant	Visual Impact Assessment
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Environmental Consultant	Visual Impact Assessment
Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Environmental Consultant	Visual Impact Assessment
<b>Environmental Auditing</b>						
Sibanye 2019 External Audits	2019	Gauteng Province South Africa	Sibanye-Stillwater (Pty) Ltd	External audits of EMPr's for the operations in Gauteng	Environmental Consultant	External Audit

Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Glencore 2019 External Audits	2019	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of Environmental Authorisations, EMPr's and WULs for the Coal operations in Mpumalanga	Environmental Consultant	External Audit
Glencore 2018 External Audits	2018	Mpumalanga Province South Africa	Glencore Operations South Africa (Pty) Ltd	External audits of Environmental Authorisations for the Coal operations in Mpumalanga	Environmental Consultant	External Audit
<b>Environmental Monitoring</b>						
Leslie 1 Project	2017-current	Mpumalanga Province, South Africa	Glencore Operation (Pty) Ltd	Environmental authorisation process for a coal mining project near Leandra	Environmental Consultant	Dust monitoring and reporting
Umsimbithi eMakhazeni Mining Project	2017-current	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Environmental authorisation process for a coal mining project near Belfast	Environmental Consultant	Dust monitoring and reporting
<b>Closure Costing</b>						
Ergo Mining: Reclamation of Valley Silts	2019-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisation and IWULA	Environmental Consultant	Financial Provision and Rehabilitation Plan
Ergo Mining: Reclamation and Reprocessing of the Rooikraal TSF	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Environmental Consultant	Financial Provision and Rehabilitation Plan

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Project	Dates	Location	Client	Project Description	Position Held	Activities Performed
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Environmental Consultant	Financial Provision and Rehabilitation Plan

## *Stakeholder Engagement Consultant*

### **Professional Registration**

- International Association for Public Participation Practitioners, Southern Africa (IAP2- Southern Africa)

### **Qualifications**

- Matriculated in 1988
- Completed the International Association of Public Participation IAP2 course (all 3 modules) for Public Participation Practitioners

### **Languages**

- English – Fluent
- Afrikaans – Fluent

### **Countries Worked in**

- South Africa
- Democratic Republic of Congo
- Nigeria
- Botswana
- Swaziland

Vanessa Viljoen has 25 years' experience in process management/project co-ordination of Public Participation Projects (now called Stakeholder Engagement Processes). Her expertise involves the planning and the execution of the public participation processes for Environmental Impact Assessment projects and other applications.

As a Stakeholder Engagement Consultant, her duties include identifying and consulting with Interested and Affected Parties, liaising with organs, dissemination of project information to stakeholders to obtain their comments. Development of stakeholder databases through networking and referral is also a key focus area. Responsible to coordinate logistics and ensure that group meetings such as Public Meetings, Landowner Meetings and Focus Group Meetings. She has worked both locally in South Africa and internationally in the Democratic Republic of Congo, Nigeria, Botswana and Swaziland.

Her skills include:

- ❖ Stakeholder engagement;
- ❖ Project/logistical co-ordination;
- ❖ Database development;
- ❖ Facilitation of landowner activities.

## PROJECT EXPERIENCE

Project	Dates	Locations	Client	Project Description	Positions Held	Activities Performed
<b>Environmental Authorisations Stakeholder Engagement</b>						
Ergo Mining: Reclamation and Reprocessing of the Marievale Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports. Development of stakeholder databases through networking and referral is also a key focus area. Coordinate logistics.
Crown Gold Recoveries (Pty) Ltd: Reclamation of the Soweto Cluster Dumps	2019 - current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports, information materials i.e. (Background, media advert, site notices and notification letters)
Ergo Mining (Pty) Ltd: The Valley Silts Project	2019 - current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	All Environmental Authorisations and IWULA	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports, information materials i.e. (Background, media advert, site notices and notification letters)

Project	Dates	Locations	Client	Project Description	Positions Held	Activities Performed
Ergo Mining: Reclamation and Reprocessing of the City Deep Dumps	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports. Development of stakeholder databases through networking and referral is also a key focus area. Coordinate logistics.
Ergo Mining: Reclamation and Reprocessing of the Rooikraal Tailings Storage Facility	2018-current	Gauteng, South Africa	DRDGOLD (Pty) Ltd	Environmental Authorisations and IWULA	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports. Development of stakeholder databases through networking and referral is also a key focus area. Coordinate logistics.
Leslie 1 Project	2017-current	Mpumalanga Province, South Africa	Glencore Operation (Pty) Ltd	Environmental authorisation process for a coal mining project near Leandra	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings; Compilation of Public Participation reports. Development of stakeholder databases through networking and referral is also a key focus area. Coordinate logistics.
Umsimbithi eMakhazeni Mining Project	2017-current	Mpumalanga Province, South Africa	Umsimbithi Mining (Pty) Ltd	Environmental authorisation process for a coal	Stakeholder Engagement Consultant	Consulting with Interested and Affected Parties, liaising with Organs of State and the co-ordination of public and authority meetings;

Project	Dates	Locations	Client	Project Description	Positions Held	Activities Performed
				mining project near Belfast		Compilation of Public Participation reports. Development of stakeholder databases through networking and referral is also a key focus area. Coordinate logistics.