

# **APPENDIX 1**

## **Curriculum Vitae of EAP**

## Curriculum Vitae of Louis de Villiers



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Nationality : South Africa  
Profession : Environmental Consultant  
Specialization : Environmental Management and GIS  
Date of birth : 22 December 1983  
ID Number : 831222 5030 080

### CONTACT DETAILS

Telephone number : 072 967 7962  
Postal Address : Suite 221, Private Bag X01, Brandhof, 9324  
e-mail : louis@turn180.co.za

### QUALIFICATIONS:

- **UNIVERSITY OF THE FREE STATE**

2010: B.Sc. Environmental Geography

- **NOSA Bloemfontein**

2013: SAMTRAC

### EXPERIENCE:

**2009:**

Practical demonstrator at the UFS (Geography Department): Second Year Geographic Information Systems Students

**2010:**

Practical demonstrator at the UFS:

- First year Introduction to Chemistry
- Second year Soil Science
- First year Introduction to Geography
- First year Urban Geography

- Second year Geographic Information Systems

**Dec 2010 – March 2018:**

Environmental Consultant at Eko Environmental

**April 2018 – Current:**

Director and Environmental Consultant at Turn 180 Environmental Consultants

**FIELD OF EXPERTISE:**

Environmental Impact Assessments

Environmental Management Reports

Mining authorisations

Waste license applications

Atmospheric Emission license applications

Water Use Authorisations

Data and GIS management

Environmental Compliance Audits and Monitoring

## PROJECTS:

The following table indicates relevant experience under Turn 180 Environmental Consultants and previous employers:

Start and end Date	Project	Applicant
2011	Application for Environmental Authorization through BAR process for the construction of chicken broiler houses and an abattoir on the farm Welton RE/1587, Bloemfontein	Department of Public Works – Free State
2011	Applications for Environmental Authorization through BAR Process for the construction of chicken broiler houses on various farms (Approximately 15) in the Reits District of the Free State	Various applicants – Project managed by Grain Field Chickens
2011	Applications for Environmental Authorization through BAR Process for the construction of a pipeline for the bulk transportation of water on the farms Loverswalk 1063, Holpan 260 and Smithskraal 1519, Boshof RD	Mr. J. Greyling
2012	Application for Environmental Authorization through S&EIR Process in terms of Section 24G of the NEMAA and an application for an Atmospheric Emissions License for the operation of an incinerator on the farm Grootvlei RE/206, Bloemfontein	Department of Public Works – Free State
2012	Applications for mining authorisations for borrow pits and quarries on the N6 Bloemfontein – Onze Rust road upgrade project, Bloemfontein District, Free State	SANRAL
2013	Application for Environmental Authorization through BAR Process in terms of Section 24G of the NEMAA for the infilling of material into a watercourse for access on the farm Jagersfontein 16/14, Fauresmith RD	Jagersfontein Developments (Pty) Ltd
2013	Application for a mining permit for the dolerite mining operation on the farm Plooyfontein 177, Hanover, Northern Cape	African Mining and Crushing
2013 – current	Environmental Compliance monitoring for the diamond tailings operation at Jagersfontein, including monthly dust fallout sampling and water quantity and quality monitoring	Jagersfontein Developments (Pty) Ltd
2013 – current	Environmental Compliance monitoring for the alluvial diamond mining operation at Rooipoort, Kimberley District, including water quantity and quality monitoring	Rooipoort Developments (Pty) Ltd
2013 (Issued in	Application for a Water Use License for the Rooipoort	Rooipoort

2016)	Developments Diamond Mining Operation, Kimberley District, Northern Cape	Developments (Pty) Ltd
2014 (Issued in 2018)	Application for a Water Use License for the Jagersfontein Diamond Tailings Operation, Fauresmith District, Free State	Jagersfontein Developments (Pty) Ltd
2014	Applications for Environmental Authorization through BAR Process for the construction of chicken houses on the farm Daniels Kuil RE/393, Bloemfontein RD	Sunell Griesel Trust
2014	Applications for Environmental Authorization through BAR Process for the construction of chicken houses on the farm Opdiekoppie RE/2904, Bloemfontein RD	Opdiekoppie Trust
2014	Application for Environmental Authorization through BAR Process in terms of Section 24G of the NEMAA for the clearance of more than 1 ha of indigenous vegetation of the farm Zand Plaats 15/102, Kimberley RD.	Rooipoort Developments (Pty) Ltd
2014	Application for a mining permit for the dolerite mining operation on Erven 226 and 238/RE, Indwe, Eastern Cape	Tau-Pele Construction (Pty) Ltd
2014	Application for a mining permit and Water Use License Application for the sand mining operation on the farm Van Niekerksrust RE/1782, Bloemfontein, Free State	Mr. C. Van Niekerk
2015	Applications for Environmental Authorization through BAR Process and a Water Use License for the construction of a weir in the Wilge River on the farm Riverview RE/1062, Reitz	Department of Water and Sanitation
2015	Applications for Environmental Authorization through BAR Process and a Water Use License for the construction of a weir in the Vals River on the farm Brandhoek RE/20, Lindley	Department of Water and Sanitation
2015	Application for 2 mining authorisations for the dolerite mining operation on the farm Lower Tele 15 (communal land), Musong Village, Sterkspruit District, Eastern Cape	Department of Roads and Public Works – Eastern Cape
2016	Application for a mining permit and Water Use License Application for the sand mining operation on the farm Glen Alphen 4/73, Ladybrand, Free State	Tewie Wessels Familie Trust
May 2018	Storm Water Management Plan for the kimberlite diamond operation on the farm Blaauwboschfontein 4/229, Boshoff, Free State	Kophia Diamonds
April 2018	Storm Water Management Plan for the alluvial diamond operation on the farm Slangheuvel 4/160, Barkley West	Thunderstone Investments (Pty) Ltd

2018	Application for an Atmospheric Emission permit to establish a mobile asphalt plant on Portion 10 of Portion 7 of the farm Mooiplaats 328, Belfast, Mpumalanga.	Tau-Pele Construction (Pty) Ltd
2018	Environmental Compliance monitoring for the special maintenance of national route R56 sections 6 and 7 between Indwe and Maclear, Eastern Cape.	KBK Engineers
2018 - 2019	Application for an amendment of the Environmental Authorization for the sand mining operations on Portion 3 of the farm Glen Alphen 74, Ladybrand, Free State.	Tewie Wessels Familie Trust
2018 - 2019	Application for Environmental Authorisation, Water Use License and Mining Permit for a dolerite mine on the remainder of the farm Johns Rust 1361, Harrismith, Free State.	Tau-Pele Construction (Pty) Ltd
2018 - 2019	Application for Environmental Authorisation for the erection of a telecommunication mast on the remainder of the farm Bloemfontein 654 (Naval Hill Nature Reserve), Bloemfontein, Free State.	Iclix (Pty) Ltd
2019 - Ongoing	Application for Environmental Authorization and an Atmospheric Emission License for the establishment of an Emulsion Plant on erf 1559, Hardustria, Harrismith, Free State.	South African Road Binders (Pty) Ltd.
2019 - Ongoing	Application for Environmental Authorization and a Water Use License for the Establishment of a public garage on Portion 15 of the farm Musket 2718, Bloemfontein, Free State.	PAP Properties (Pty) Ltd
2019 - Ongoing	Application for Environmental Authorization for the establishment of an agricultural related sales and storage area and a public garage on the remaining extent of the farm Outspan 1960, Bloemfontein, Free State.	Oos Vrystaat Kaap Bedryf (Edms) Bpk

# Curriculum Vitae of Lizel Kennedy



Nationality : South Africa  
Profession : Geohydrologist  
Specialization : Geochemistry and Geohydrology  
Date of birth : 10 May 1992  
ID Number : 9205100036082

## CONTACT DETAILS

Telephone number : 071 360 0089  
Postal Address : Suite 221, Private Bag X01, Brandhof, 9324  
e-mail : [lizel@turn180.co.za](mailto:lizel@turn180.co.za)

## QUALIFICATIONS:

- **UNIVERSITY OF THE FREE STATE**

**2014:** B.Sc. Geochemistry

**2015:** B.Sc. Honores Geochemistry

**2020:** M.Sc. Geohydrology

## EXPERIENCE:

**2016-2019** GCS Environmental and Groundwater Consulting (Internship)

Project with Water Research Commission of South Africa

- Water quality monitoring and hydro-geochemical investigations of coal mine pit lakes
- Hydro census, aquifer testing and associated reporting

**2020** Free-lance and pro-bono work in Exploration Geology projects;

- Geological data processing, Field geological mapping, GIS (maps, sections, interpolation modelling),
- Sample management and supervision of RC drilling programs

**Jan. 2021 – Current** Junior Environmental Consultant and EAP Assistant at Turn 180 Environmental Consultants

- Writing Basic Assessment Reports
- Mine permit applications
- Water quality and monitoring reporting

**FIELD OF EXPERTISE:**

- Water quality sampling and monitoring
- Drilling supervision
- Mine permit applications
- Basic Assessment Reports/ Environmental Authorisation



## PROJECTS:

The following table indicates relevant experience under Turn 180 Environmental Consultants and previous employers:

<b>Start and end Date</b>	<b>Project</b>	<b>Client</b>
October 2016- April 2019	Water quality and water balance assessments of coal mine pit lakes of Anglo Coal, Sasol, Kangra and BHP Biliton, Mpumalanga, KZN and Limpopo Provinces. <i>Title: An investigation to determine if South African coal mine pitlakes are a viable closure option.</i>	Water Research Commission and GCS Water and Environmental Consultants
February 2018	Magnetic survey for geological exploration of fissures on the Farm Blaauwboschfontein 4/229, Boshoff, Free State	Kophia Diamonds
February 2020- November 2020	Geological exploration drilling and resource estimation of Fe-Mn ore body near Postmasburg, Northern Cape.	4 Arrows Mining
January 2021- ongoing	Mine Permit Application and Basic Assessment Report for a borrow pit on the Farm Vlakfontein 210. Lady Grey District, Eastern Cape.	Tau Pele (Pty) Ltd
January 2021 - ongoing	Water quality monitoring and environmental auditing	Jagersfontein Developments



# TURN180

ENVIRONMENTAL CONSULTANTS  
BUSINESS PROFILE

**Turn 180 Environmental Consultants (Pty.) Ltd.**

Louis De Villiers

+27 72 967 7962

admin@turn180.co.za

louis@turn180.co.za

21 Dromedaris Street

Dan Pienaar

Bloemfontein

9300

Free State

# General Company Information

Turn 180 Environmental Consultants “Turn 180” was established in 2018 by its director, Mr. Louis De Villiers to provide clients with cost effective, specialist and professional services. Providing assistance to meet clients environmental management requirements and needs through legislative processes and monitoring.

**COMPANY DIRECTOR:** G. L. DE VILLIERS

**VAT NO:** 4220284154

**BUSINESS REGISTRATION NO:** 2018/110720/07 – SOUTH AFRICA

**BUSINESS ADDRESS:** 21 DROMEDARIS STREET | DAN PIENAAR | BLOEMFONTEIN | 9301

**REGISTERED PHYSICAL ADDRESS:** 8 CONDE STREET | BAYSWATER | BLOEMFONTEIN | 9301

**POSTAL ADDRESS:** SUITE 221 | PRIVATE BAG X01 | BRANDHOF | 9324

**TEL:** 072 967 7962 | **E-MAIL:** admin@turn180.co.za

**BBBEE LEVEL 2**



The services provided by Turn 180 includes various sectors ranging from agricultural, mining, industrial, municipal, urban development and governmental.

Turn 180 is a Bloemfontein based company with the capacity to work nationwide.

Our highly qualified specialists are appointed for specific projects. Turn 180 provides a quality service to meet the requirements of clients, aiming to minimise and manage all aspects which might affect the environment negatively and to ensure legal compliance.

***Turn 180 has the following fields of expertise:***

- Environmental Impact Assessments
- Environmental Management Plans and Programme reports
- Environmental Compliance Monitoring and Reporting
- Atmospheric Emission Licenses and Permit Applications
- Waste Management License Applications
- Water Use License Applications and Reporting (including Integrated Water and Wastewater Management Reports, Stormwater Management Plans, etc.)
- Mining Authorisations and Assessments
- Public Consultation Processes
- GIS and Data Management
- Topographical and layout mapping
- Dust Fallout Monitoring
- Carbon Footprint Analysis

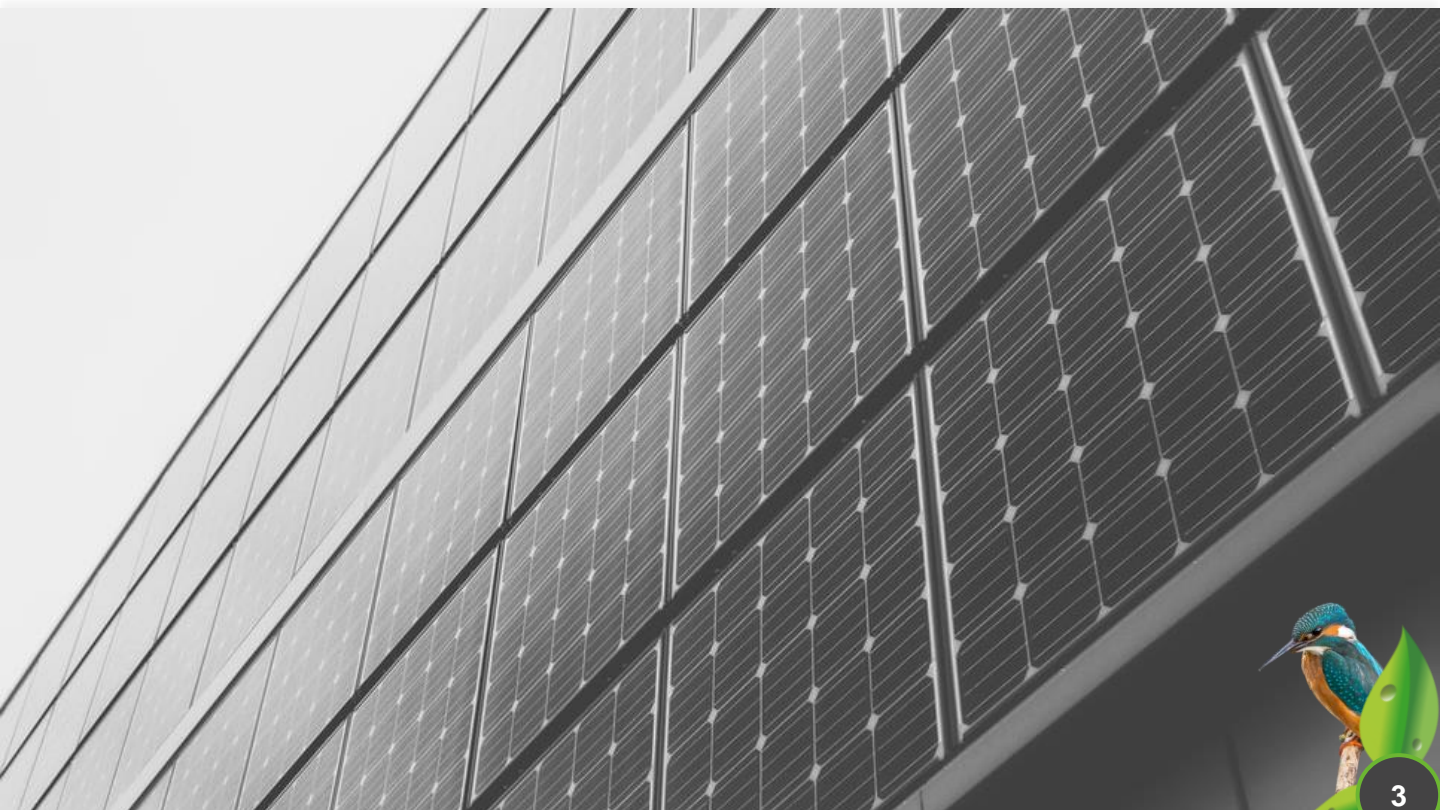


***Groundwater***

- Geohydrological Investigations
- Geophysical Investigations
- Ground and Surface Water Sampling/monitoring
- Monitoring Programmes
- Aquifer Hydraulics and Pump Testing
- Waste site and Cemetery investigations
- Water Use License Applications and Reporting

***The following specialist services can also be provided:***

- Archaeological and Palaeontological Impact Assessments
- Ecological, Biodiversity and Wetland Delineation and Assessments
- Soil Surveys
- Socio-economic impact assessments





**Mr. Louis de Villiers** has more than 9 years relevant environmental experience and a B.Sc. Environmental Geography degree from the University of the Free State. As well as SAMTRAC from NOSA.



**Mrs. Ansuné Weitsz** with a Masters in Environmental Management based in Malelane Mpumalanga. Managing projects in the northern parts of South Africa.



**Mrs. Marguerite Cronje** with a B.Sc. degree in Zoology and Masters in Environmental Management with the University of the Free State. Mrs Cronje has a renowned reputation in the field of environmental management with more than 15 years of experience.



**Mr. Dirk Moolman** with n Masters degree in Geohydrology from the University of the Free State. He is a registered Professional Scientist with 10 years of groundwater experience.



**Mr. Gerhard Maritz** with a degree in Geology and Honours in Environmental Management and Geographical Information Systems.





- Application for a Water Use License for various Section 21 water uses under the National Water Act (“**NWA**”), 1998 (Act. No. 36 of 1998) for the Rooipoort diamond mining activities in the Northern Cape.
- Monthly Environmental Compliance Monitoring and water sampling and reporting of the Rooipoort diamond mining activities in the Northern Cape.
- Monthly Environmental Compliance Monitoring, dust fallout and water sampling and reporting at the surface tailings reprocessing operations in Jagersfontein in the Free State.
- Application for a Water Use License for various water uses in terms of Section 21 of the NWA for the surface tailings reprocessing operations in Jagersfontein in the Free State.
- Application for a prospecting Right on the Remainder and Portion 16 of the farm Jagersfontein, Free State.
- Application for a Water Use License for the rehabilitation of the historically mined Pit on Portion 15 of the farm Jagersfontein 14 in the Free State.
- Writing of a Storm Water Management Plan for the kimberlite diamond mining operation at Blaauwboschfontein in the Boshof District of the Free State.
- Writing of a Storm Water Management Plan for the diamond mining operation at Slangheuvel in the Windsorton District of the Northern Cape.
- Writing of an Integrated Water and Wastewater Management Plan for the diamond mining operations of Thunderflex outside Prieska in the Northern Cape.
- Application for the amendment of the Environmental Authorisation for a sand mine in the Ladybrand district of the Free State.



- Writing of the Integrated Water and Wastewater Management Plan for the manganese mine outside Hotazel, Northern Cape.
- Update of the Integrated Water and Wastewater Management Plan for a diamond mine in the Prieska district of the Northern Cape.
- Application for Environmental Authorisation and Atmospheric Emission License for the proposed establishment of an asphalt plant in the Indwe district of the Eastern Cape.
- Application for Environmental Authorisation and Atmospheric Emission License for the proposed establishment of an emulsion plant in Harrismith in the Free State.
- Application for a controlled emitter permit for an asphalt plant in the Belfast district of Mpumalanga.
- Application for a controlled emitter permit for an asphalt plant in the Nelspruit district of Mpumalanga.
- Application for a controlled emitter permit for an asphalt plant in the Malelane district of Mpumalanga.
- Application for Environmental Authorisation, Water Use License and Mining Permit for a dolerite mine in the Harrismith district of the Free State.
- Monthly Environmental Compliance Monitoring and dust fallout sampling and reporting of the asphalt plant in Malelane district in Mpumalanga.
- Application for Environmental Authorisation and Atmospheric Emission License through the Section 24G process for an asphalt plant in Malelane district in Mpumalanga.
- Obtaining confirmation from exclusion from Environmental Authorisation for the establishment of a diesel depot in the Moinooi district of the North West.
- Obtaining confirmation from exclusion from Environmental Authorisation for the establishment a diesel depot in the Quaggafontein area, Bloemfontein district of the Free State.





- Compliance audit of a diesel depot in Jan Kempdorp, Northern Cape.
- Annual Environmental Audit and determining of the quantum for financial provisions for the Goedehoop and Cawoods Hope diamond mine in the Christiana district.
- Application for Environmental Authorisation for the clearance of vegetation for crop cultivation including an application for an Integrated Water Use License for the abstraction of water from the Vaal River in the Barkley West district of the Northern Cape.
- Response to a notice of intent to issue a directive and the writing of a rehabilitation plan for a feedlot in the Jan Kempdorp district of the Northern Cape.
- Application for Environmental Authorisation for the erection of a telecommunication mast on Naval Hill, Bloemfontein, Free State.
- Application for Environmental Authorisation for the construction of a college and expansion infrastructure in the Bloemfontein district of the Free State.
- Application for Environmental Authorisation for the proposed clearance of vegetation for the establishment of an agricultural related sales and storage area and other infrastructure including a fuel service station in the Bloemfontein district of the Free State.
- Application for Environmental Authorisation and a Water Use License for the proposed establishment of a fuel service station in the Bloemfontein district of the Free State.
- Obtaining confirmation from exclusion from Environmental Authorisation for the establishment a diesel depot in the Theunissen district of the Free State.
- Environmental Compliance monitoring for the special maintenance of national route R56 sections 6 and 7 between Indwe and Maclear, Eastern Cape.



- Obtaining confirmation from exclusion from Environmental Authorisation for the erection of a telecommunication mast in the Langenhovenpark area, Bloemfontein district of the Free State.
- Obtaining confirmation from exclusion from Environmental Authorisation for the erection of a telecommunication mast in the Lourierpark area, Bloemfontein district of the Free State.
- Application for a General Authorisation for the abstraction of water in terms of Section 21 of the NWA for the special maintenance of road P17/2 between Winburg and Marquard.
- Writing of a Rehabilitation and Closure Plan for an asphalt plant in the Nelspruit district of Mpumalanga.

*The Turn 180 team have completed numerous projects under other companies. These projects include, but are not limited to applications for Environmental Authorisations for chicken houses, Waste Management License application for waste disposal landfill sites, mining authorisations for gravel/stone quarries, mines and water use license applications for various water uses under Section 21 of the NWA.*

