

CURRICULUM VITAE

Name:	Gideon Petrus Kriel	
Nationality:	South African	
Date of Birth:	1 September 1983	
Profession:	Environmental Scientist	
Professional Qualification/	M.Env.Sci Water Sciences; North West University (Potchefstroom Campus), 2008	
Training:	Implementation of Environmental Management Systems (ISO 14001); Centre for Environmental Management, North-West University (Potchefstroom Campus), 2007.	
	Bringing Data Into GIS (ArcGIS); GIMS (now ESRI SA), 2008.	
	Tools for Wetland Assessment; Rhodes University, 2013	
Professional Membership/ Registrations:	Registered Professional Natural Scientist (SACNSP- #400202/09) – Environmental Sciences	
	Water Institute of Southern Africa (WISA) Member (21161)	
Current Employer:	Environmental Impact Management Services (Pty) Ltd.	

KEY EXPERIENCE

GP holds an M.Env.Sci (Water Sciences) Cum Laude from the North-West University (Potchefstroom Campus). He has been employed as an Environmental Consultant since 2007 and is the East London office manager. He has delivered presentations locally and internationally concerning the use of bio-indicators for the determination of water quality, and has experience in a wide variety of environmental management projects including: Environmental Impact Assessments, Basic Assessments, Geographic Information Systems (GIS), Environmental Compliance Monitoring, Environmental Awareness Training, Aquatic Ecological Assessments, Drinking and Waste Water Treatment Process Audits, Wetland Delineation and Assessments, ISO 14001 Aspect Registers, Water Use Licence Applications, Waste Management Licence Applications and Integrated Waste and Water Management Plans (IWWMP).

CAREER SUMMARY

Period: July 2007- Current	Organisation: EIMS	Position: Senior Environmental Assessment Practitioner	
Key Projects/Assignments	Office Manager: Responsible for the technical management of the East London Office including the following aspects:		
	Technical review and direction;		
	Quality control and assurance;		



- Client management; and
- Marketing and business development.

Project Experience:

- Environmental Impact Assessment for the proposed Zonk'izizwe Mixed Use Development in Midrand, Gauteng.
- Basic Assessments for the road upgrades for the Johannesburg Roads Agency (JRA).
- Environmental Impact Assessment for the proposed Thabeng Eco Reserve and Golf Estate, near Ohrigstad, Limpopo.
- Basic Assessment for the proposed TATA Steel KZN Clean Energy Project, Richards Bay, KwaZulu-Natal.
- Basic Assessment for the proposed IFM Clean Energy Project, Mooi Nooi, North-West Province.
- Compilation of ISO 14001 Aspect/Impact registers for Clover (Pty) Ltd.
- Basic Assessment for the proposed N17 Phase 2 project: Addition of Auxiliary Lanes Between the Rondebult Road Interchange and the Proposed Trichardts Road Interchange.
- Basic Assessment for the Proposed Early Warning System for the South African Nuclear Energy Corporation of South Africa (NECSA).
- Environmental Impact Assessment for the Proposed Water and Effluent Collection and Treatment Infrastructure Upgrade for the Nuclear Energy Corporation of South Africa (NECSA).
- Basic Assessment for the proposed Residential Development on Portions 16
 & 17 of the Farm Wilgespruit 190 IQ, Wilgeheuwel, Roodepoort.
- Independent Environmental Control Officer for the Eye of Africa Golf Estate, Gauteng.
- Independent Environmental Control Officer for the Department of International Relations Head Office Construction, Pretoria.
- Water Use License Application for the Upgrade of the Low Level Bridge on Hyperion Drive, North Riding, Johannesburg.
- Diatom Water Quality Assessments for the Upgrade of the Low Level Bridge on Hyperion Drive, North Riding, Johannesburg.
- Basic Assessment for the Proposed Rand Water 1400mm diameter L17 Bulk Water Pipeline, Brakpan, Gauteng.
- Wetland Delineation for Anglo Platinum Potgietersrus Platinum Limited near Mokopane, Limpopo.
- Independent Environmental Control Officer for the Knock-down and Rebuild of the Shell Range River Service Station, Gillview, Johannesburg.



- Independent Designated Environmental Officer for the Refurbishment of the South African National Roads Agency Limited (SANRAL) Dalpark Operations Centre, Brakpan.
- Waste Licence Application for the Proposed Water and Effluent Collection and Treatment Infrastructure Upgrade for the Nuclear Energy Corporation of South Africa (NECSA).
- Prospecting Rights Applications on behalf of the African Exploration Mining and Finance Corporation (Pty) Ltd for a variety of projects in Limpopo, Free State and North-West Provinces.
- Environmental Impact Assessment and Waste Management Licence Application for the Lusikisiki Sewer and Sewer Treatment Plant, Lusikisiki, Eastern Cape.
- Diatom Monitoring for the Lusikisiki Sewer and Sewer Treatment Plant, Lusikisiki, Eastern Cape.
- Appointed as a Blue Water Services Inspector for the 2012 Blue Water Services Audits by the Department of Water Affairs.
- Basic Assessment for the formalisation of Masibambane, Masibulele, Ilinge, Dacawa Gwentshe, Velwano, Mathemba Vuso in Mdantsane for the Buffalo City Metropolitan Municipality.
- Environmental Impact Assessment for the Proposed Sunny South Housing Development for the Buffalo City Metropolitan Municipality.
- Basic Assessment and Water Use Licence for the Mqonjwana Access Road for the Mbizana Local Municipality.
- Independent Environmental Control Officer for the East London Industrial Development Zone (ELIDZ): Infrastructure Services for the Zone 1B West Residential Development.
- Heritage Impact Assessment and Public Participation for the Proposed Reconstruction of Fleet Street, East London for the Buffalo City Metropolitan Municipality.
- Environmental Monitoring (Water Quality) for Phase 2 CD of the Olifants River Water Resources Development Project for Basil Read.
- Basic Assessment and Water Use Licence Application for the Proposed Sidwadeni River Access Road near Mthatha, Eastern Cape on behalf of the South African National Roads Agency (SOC) Limited.
- Basic Assessment and Water Use Licence Application for the Proposed Mngazi River Access Road near Port St Johns, Eastern Cape on behalf of the South African National Roads Agency (SOC) Limited.
- Independent Environmental Control Officer for the East London Industrial Development Zone (ELIDZ): Proposed MMOEM Facilities.



- Amalinda Fairlands Feasibility Study for the Buffalo City Metropolitan Municipality (CS Consulting).
- Independent Environmental Control Officer for the Lusikisiki Sewer and Sewer Treatment Plant, Lusikisiki, Eastern Cape.
- Independent Environmental Control Officer for the Noblesfontein Wind Energy Facility near Victoria West, Northern Cape Province.
- Independent Environmental Control Officer for the Reconstruction of Fleet Street, East London, Buffalo City Metropolitan Municipality, Eastern Cape Province.
- Transnet Freight Rail NEMA Section 24G Rectification Application Coega Station to Tankatara Level Crossing, Coega, Eastern Cape.
- Independent Environmental Control Officer for the Sunny South Housing Development for the Buffalo City Metropolitan Municipality.
- Vincent-Berea Local Spatial Development Framework, CS Consulting (Buffalo City Metropolitan Municipality), East London, Eastern Cape.
- Participatory Based Planning Support to Informal Settlements Upgrading Projects In Buffalo City Metropolitan Municipality, CS Consulting, Eastern Cape.
- Molopo Free State Wetland Delineations, Virginia, Free State.
- Puma Energy Fuel Depot Wetland Delineation, Nelspuit, Mpumalanga.
- Mdantsane Roads Cluster 2 Environmental Control Officer, Buffalo City Metropolitan Municipality.
- Giuricich Chemical Removal at Vodacom Site, East London.
- Internal Environmental Management System Audits (ISO 14001) for the East London Distribution Centre and Ladismith Plant for Parmalat South Africa.
- Environmental Control Officer for the Eskom Albany-Mimosa 66KV Distribution Line near Alicedale, Eastern Cape.
- Environmental Impact Assessment for the Proposed Algoa Basin Oil & Gas Production Project for Aberdeen Offshore Engineering.
- Basic Assessment for the Proposed Ablution Facilities Along the Coast for Nyandeni Local Municipality.
- Environmental Control Officer for the Eskom Wittekleibosch-Dieprivier 132kV Power Line and Switching Station, Tsitsikamma, Eastern Cape.
- Specialist Walkdown and Site Specific EMPR for the Eskom Ankerlig-Omega Power line, Western Cape.
- Wetland Assessment for the Lichtenburg Hospital Basic Assessment Process for PH Bagale (on behalf of the Department of Health).



- Update of the Integrated Waste and Water Management Plan Eskom Lethabo Power Station, Free State.
- Basic Assessment for the Upgrade of the Loop 16 (Gariep) Road for ACWA Power, Groblershoop, Northern Cape.
- Prospecting Rights Application and Basic Assessment for Black Mountain Mining, Aggeneys, Northern Cape.
- Basic Asessment for the Eskom Riverbank IPP Projects, Eastern Cape.
- Environmental Control Officer for the SANRAL N2 Section 15 from Buffalo River (km 2,94) to Breidbach Intersection (km 9,8) and the R63 from Alexandra Road (km 0) to Bhisho, Eastern Cape.
- Environmental Control Officer for the Greenfields section of the SANRAL N2 Wild Coast Toll Highway (Southern Section), Eastern Cape.
- Basic Assessment for the Upgrading to a Surface Standard Portion of Road DR08606 +1-12KM, Eastern Cape Department of Roads and Public Works, Eastern Cape.
- Transnet TM2 Aquatic Monitoring Programme.
- Prospecting Right Applications and Basic Assessment Processes for Black Mountain Mining near Aggeneys, Northern Cape.
- Eskom Amathole Stormwater Environmental Control Officer, Eastern Cape.
- Update of the ACWA Bokpoort Consentrated Solar Plant Integrated Waste and Water Management Plan, Northern Cape.
- Update of the Rirhanzdu Rehabilitation Strategy and Implementation Plan, Mpumalanga.
- Basic Assessment and Water Use Licence Application for the Proposed Megamor Park Extension, Meisieshalt, East London for Umbra Trading 11.
- Creation of the Ekurhuleni Metropolitan Municipality Parks GIS Layer.
- Enviro-legal review for Bax Kaplan Russel for a Waste Processing Facility in Wilsonia, East London.
- Enviro-Legal Review: Demonstration of On-Site Faecal Sludge Treatment In East London, Impilo Yabantu Services (Pty) Ltd.
- Umgeni Raw Water Management Audit for SizweNtsalubaGobodo, Pietermaritzburg.
- Umgeni Waste Water Management Audit for SizweNtsalubaGobodo, Pietermaritzburg.
- Competent Persons Report (Environmental) for the Ntshovelo Mining Resources (Pty) Ltd Welgemeend Colliery.



- Umgeni Potable Water Management Audit for SizweNtsalubaGobodo, Pietermaritzburg.
- GIS work for a large amount of projects from 2007 Present including the following: the identification and mapping of sensitivities and interested and affected parties, the delineation of site boundaries, the identification of alternative development sites, geo-referencing of old maps and technical drawings, production of informative maps for Basic Assessments, Environmental Impact Assessments and Environmental Compliance Monitoring.

LANGUAGE CAPABILITY

Language	Speak	Read	Write
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Excellent	Excellent

DECLARATION

I confirm that the above information contained in the CV is an accurate description of my experience and qualifications at the time of signature.

Signature of Staff Member

18 October 2018

Date



NORTH-WEST UNIVERSITY YUNIBESITI YA BOKONE-BOPHIRIMA NOORDWES-UNIVERSITEIT

MASTER OF ENVIRONMENTAL SCIENCES

in

ENVIRONMENTAL SCIENCES AND MANAGEMENT

awarded to

GIDEON PETRUS KRIEL

CUM LAUDE

after complying with all the requirements CORRECT STAMP

It is hereby certified that this is a true copy of the original document will that there is no indication that alterations have been made thereto by an unauthorized person.

Date: 27/09/9

Sharaman Control Company Company (1860)

11 September 2008

Registrar

Vice-chancellor

University number: 12570303 Serial number: 10119



herewith certifies that

Gideon Petrus Kriel
Registration number: 400202/09

is registered as a

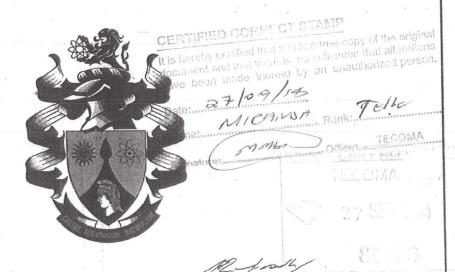
Professional Natural Scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003 (Act 27 of 2003) in the following fields(s) of practice (Schedule 1 of the Act)

Environmental Science

Effective 16 September 2009

Expires 31 March 2019



President

Executive Director



CURRICULUM VITAE

Name:	Pieter Holtzhausen
Nationality:	South African
Date of Birth:	29 February 1992
Profession:	Environmental Consultant
Professional Qualification/ Training:	MSc. Environmental Sciences (Hydrogeology); North-West University Potchefstroom, 2015-2017
	Hons. Environmental Sciences (Ecotoxicology); North-West University Potchefstroom, 2014
	BSc. Environmental and Biological Sciences (Zoology and Chemistry); North-West University Potchefstroom, 2011-2013
Current Employer:	Environmental Impact Management Services (Pty) Ltd.

KEY EXPERIENCE

Pieter holds an M.Sc. in Environmental Sciences (Hydrology and Hydrogeology) from the North-West University (Potchefstroom Campus) and is currently employed as an Environmental Consultant with almost two years' experience in the environmental sector. His core expertise relates to the areas of spatial analysis and sensitivity mapping on Geographical Information Systems (GIS) for a wide array of projects ranging from risk assessments, audits, EIAs and BAs for mining, gas extraction, wetland rehabilitation, road upgrades, etc. He has taken part in numerous Public Participation Processes (PPP), water use license applications, water monitoring, soil sampling and risk assessment report writing. Pieter also has a year of experience in Airborne Remote Sensing relating to the field of Geophysics as a technician and data processor of Radiometrics, Magnetics, hyperspectral-, infrared-, thermal- and RGB photography.

CAREER SUMMARY

Period: March 2018 – Present	Organisation: EIMS	Position: Environmental Consultant
Key Projects/Assignments	 Bi-monthly monitoring and report writing of groundwater quality for the Molopo Water Monitoring Program in Virginia, Free State province. GIS overall- and sensitivity mapping and spatial analysis for various projects such as: 	
	 Ekurhuleni Wetland Rehabilita Kalabasfontein EIA; Spitzland EIA and; Harmony ST Helena Closure P 	,



	Technical assessment and review of municipal support plans w.r.t service delivery for the Municipal Infrastructure Support Agent (MISA).			
	Compilation of a risk assessment report for the cultivation of medicinal cannabis in Midrand.			
	Compilation of a contaminated lar Helena shaft 10 closure plan.	Compilation of a contaminated land assessment report for the Harmony ST Helena shaft 10 closure plan.		
	Augmentation project. This include	ECO for a stretch water pipeline for the TCTA Mokolo Crocodile Water Augmentation project. This included monthly site audits and report writing on the rehabilitation of the constructed pipeline.		
	Assistance in IWULAs for multiple projects such as the:			
	Vlakvarkfontein EIA extension;	 Vlakvarkfontein EIA extension; 		
	Paardeplaats coal mine WULA	Paardeplaats coal mine WULA and;		
	Ilima WULA.	> Ilima WULA.		
Period: 2016-2017	Organisation: GyroLAG	Position: Data Processor/ Technician		
Key Projects/Assignments	Assembling of geophysical equipment onto aircraft (spectrometer, magnetometer, X-Cam (RGB, Thermal and Infrared), AG-NAV, GPS receiver and a laser altimeter).			

LANGUAGE CAPABILITY

Language	Speak	Read	Write
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Excellent	Excellent

Deployment of base of operations during site visits.

Processing of radiation data from spectrometer and images from the X-Cam

DECLARATION

I confirm that the above information contained in the CV is an accurate description of my experience and qualifications and that, at the time of signature.

2019/08/12
Signature of Staff Member
Date

after flights.



IT IS HEREBY CERTIFIED THAT THIS IS A TRUE COPY OF THE ORIGINAL DOCUMENT AND THAT THERE IS NO INDICATION THAT ALTERATIONS HAVE BEEN MADE THERETO BY AN UNAUTHORISED PERSON.

NAME !

FLANK Pelle

SIGNATURE OFFICE:

MASTER OF SCIENCE

in

ENVIRONMENTAL SCIENCES

awarded to

PIETER HENDRIK HOLTZHAUSEN

after complying with all the requirements

24 May 2018

Prof ND Kgwadi Vice-Chancellor



Prof M Verhoef Registrar





This is an English translation of the content of the original certificate issued in Afrikaans and conferred at a graduation ceremony held on 24 May 2018