

CURRICULUM VITAE

Name:	Gideon Petrus Kriel
Nationality:	South African
Date of Birth:	1 September 1983
Profession:	Environmental Scientist
Professional Qualification/ Training:	<p>M.Env.Sci Water Sciences; North West University (Potchefstroom Campus), 2008</p> <p>Implementation of Environmental Management Systems (ISO 14001); Centre for Environmental Management, North-West University (Potchefstroom Campus), 2007.</p> <p>Bringing Data Into GIS (ArcGIS); GIMS (now ESRI SA), 2008.</p> <p>Tools for Wetland Assessment; Rhodes University, 2013</p>
Professional Membership/ Registrations:	<p>Registered Professional Natural Scientist (SACNSP- #400202/09) – Environmental Sciences</p> <p>Water Institute of Southern Africa (WISA) Member (21161)</p>
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	<p><u>Office Manager:</u> Responsible for the technical management of the East London Office including the following aspects:</p> <ul style="list-style-type: none"> • 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 Assessment 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 Concentrated 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.



	<ul style="list-style-type: none"> • Umgeni Potable Water Management Audit for SizweNtsalubaGobodo, Pietermaritzburg. • Cambridge Pedestrian Bridge Enviro-legal Interpretation for CBM Consulting Engineers. • Komati Power Station Legal Audit for Eskom. • Beaconhurst Drive Enviro-legal Interpretation for CBM Consulting Engineers. • Port of Ngqura Tank Farm Infrastructure Specialists Services for Transnet Group Capital. • Prospecting Rights Application and Basic Assessment for Black Mountain Mining, Northern Cape. • Independent Environmental Control Officer for the East London Industrial Development Zone (ELIDZ): GW1 Facilities in Zone 1A. • Basic Assessment and Water Use Licence Application for the Proposed Summerpride Erf 107 Residential Development, East London. • Harmony Target 1 & 2 Performance Assessment Audits, Welkom • Harmony President Steyn North (Steyn 3_ 7 & 9) Performance Assessment Audits, Welkom. • City of Ekurhuleni Tsakane Sewer Pump Station Basic Assessment, Ekurhuleni. • Eskom Duvha Power Station Legal Compliance Audit. • Buffalo City Metropolitan Municipality Eastern Beach Sewer Upgrade Environmental Officer, East London. • Transnet Group Capital Coega Kop Quarry Water Use Licence Application. • SCAW Dimbaza Foundry Groundwater Monitoring, Dimbaza. • 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.
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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.

A handwritten signature in black ink, appearing to be 'Kriel', written over a horizontal line.

Signature of Staff Member

17 July 2020

Date

CURRICULUM VITAE

Name:	Sikhumbuzo Emmanuel Mahlangu
Nationality:	South African
Date of Birth:	11 October 1985
Profession:	Environmental Scientist
Professional Qualification/ Training:	BSc Masters Zoology (Aquatic Health); University of Johannesburg, 2015.
	Tools for Wetland Assessments; Rhodes University; 2013.
	Aquifer Hydraulics and Groundwater Monitoring Certificate Course; North West University, 2014.
Professional Membership/ Registrations:	Registered Professional Natural Scientist (SACNASP- #400429/13).
Current Employer:	Environmental Impact Management Services (Pty) Ltd.

KEY EXPERIENCE

Sikhumbuzo holds a BSc. Master's degree in Zoology (Aquatic Health) from the University of Johannesburg. He is an aquatic and research scientist with over 2 years' experience, and 8 years' experience as an environmental scientist. He has also completed an advanced course on Tools for Wetland Assessments. His expertise lies mainly in water quality assessments, bio-monitoring, wetland assessments and reporting.

Sikhumbuzo has played a vital role in providing advice on general environmental management issues on site to projects such as Transnet New Multi Product Pipeline (NMPP) and the Mokolo Crocodile Water Augmentation Project Phase 1 (MCWAP1) among others. He has also assisted in the management and preparation of documentation required for Integrated Water Use Licence Applications (IWULA). He has also played a role in assisting and advising various contractors on the practical implementation of Environmental Management Plans and conditions of Environmental Authorisations.

CAREER SUMMARY

Period: October 2010 – Present	Organisation: EIMS	Position: Environmental Assessment Practitioner
Key Projects/Assignments	Project Manager and Environmental Assessment Practitioner for the following: <ul style="list-style-type: none"> • Project Manager for TCTA Mokolo Crocodile Water Augmentation Project (MCWAP) (~42km of water pipeline construction and related facilities). • Project Manager and Environmental Monitoring Officer undertaking monthly 	



	<p>dust fallout monitoring and reporting for Eskom Group Capital Division (GCD) at Medupi Power Station.</p> <ul style="list-style-type: none">• Project Manager and Environmental Monitoring Officer undertaking monthly dust fallout monitoring and reporting for Eskom Group Capital Division (GCD) at Kriel Power Station. <p>Environmental Control Officer for the following:</p> <ul style="list-style-type: none">• Environmental Control Officer for Transnet New Multi Product Pipeline (NMPP) Project (~750km of pipeline construction and related facilities).• Environmental Control Officer for Eskom Group Capital Division (GCD) at Kusile Power Station.• Environmental Control Officer for Eskom Group Capital Division (GCD) at Grootvlei Power Station (Retrofitting of Electrostatic precipitators with Fabric Filter Plant).• Environmental Control Officer for TCTA Mokolo Crocodile Water Augmentation Project (MCWAP) (~42km of water pipeline construction and related facilities).• Environmental Control Officer for Eskom (Klevebank-Dalkeith Distribution Power-line).• Environmental Control Officer for Upgrade of Road DR3112 between Douglas and Hopetown in the Northern Cape. <p>Environmental Officer for the following:</p> <ul style="list-style-type: none">• Environmental Officer for Roshcon (Duvha-Leseding 400kV Transmission Power-line). <p>Environmental Auditor for the following:</p> <ul style="list-style-type: none">• Medupi Power Station Bi-annual Compliance Audit.• Integrated Water Use License Audit for Sasol Mining Block 3, Secunda. Audit included the following Sasol Mines and operational areas<ul style="list-style-type: none">○ Bosjesspruit Mining Operations○ Brandspruit Mining Operations○ Middelbult Mining Operations○ Twistdraai Mining Operations○ Twistdraai Export Plant○ Engineering Support Services○ Sasol Coal Supply
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LANGUAGE CAPABILITY



Language	Speak	Read	Write
English	Excellent	Excellent	Excellent
IsiZulu	Excellent	Excellent	Excellent

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.

28 June 2019

Signature of Staff Member

Date