

Vumile Ribeiro

Director, Principal Environmental Consultant and Community Health Expert
Registered EAP No. 2019/1183

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EDUCATION AND QUALIFICATIONS

- BSocSc. (Geography and Environmental Management) University of KwaZulu Natal (2007)
- BSocSc. Hons. (Environmental Analysis and Management) University of Pretoria (2011)
- MPhil. (Environmental Law) University of Pretoria (current)

AFFILIATIONS

- Environmental Assessment Practitioners Association of South Africa (EAPASA)
- International Association of Impact Assessment South Africa (IAIASA)
- Public Health Association of South Africa (PHASA)
- Society of South African Geographers (SSAG)
- National Association for Clean Air (NACA)

YEARS OF EXPERIENCE

- 17 years

KEY COMPETENCIES

- Project Management
- Health Impact Assessments
- Community Health, Environmental Health

BIOGRAPHY

Vumile Ribeiro is the Director of Environmental Management Services at Niara Environmental Consultants (Pty) Ltd. Vumile has 17 years of professional and international experience in Environmental Assessment and Management primarily in the minerals resources and energy sector. Her roles include the operational management responsibilities of Niara Environmental Consultants, project management, report writing, client liaison, as well as business development.

Having worked for a multi-disciplinary advisory firms and environmental consultancies, Vumile has a competent understanding of the work effort and cross collaboration required for a successful multidisciplinary organisation. Vumile has been involved in a number of Environmental Impact Assessments and has a particular interest in health impacts assessments, water resource management, mining, energy and stakeholder engagement. Vumile has considerable experience across a range of developmental and environmental sciences and has worked in South Africa, Mozambique, Sierra Leone and Liberia and is familiar with Regulatory Environmental Legislation in other parts of Africa.

Vumile is very well versed in the IFC Environmental and Social Performance Standards (including IFC PS 2012) and the associated Equator Principles, which have informed the approach and standard for a number of ESIA processes that she has been involved in. Vumile is skilled at organising and driving effective project teams at a scale relevant to the project's requirements. She has technical experience and is able to quickly identify the most pertinent issues of a particular project whilst focussing on driving project success by rigorously implementing project management tools. Vumile's special interest areas involves understanding the systemic nature of factors that pose threats and opportunities in terms of establishing healthy, resilient communities, and exploring the use of various data types, approaches and methodologies to enable effective change.

- Legal Compliance Audits:
Environmental / Health & Safety
- Environmental Control Officer
- Performance Assessments
(Environmental Audits) on mine EMPs
- Compliance Audits on Environmental
Authorisations (e.g., ROD's, Water, Air
and Waste Licenses)
- Consolidated Compliance Programmes
- Environmental Impact Assessments
- Basic Assessment Reports
- Mineral Law -Mining Rights and
Permits
- Environmental Authorisation
Applications
- Water Use License Applications
- Waste Management License
Applications
- Co-ordinating and conducting Public
Involvement processes.
- Social Assessment (Stakeholder and
Social Analysis)
- Public Participation Process and
Stakeholder consultation and
mediation

COUNTRIES OF WORK EXPERIENCE

- Cameroon
- Democratic Republic of Congo
- Liberia
- Mozambique
- Sierra Leone
- South Africa
- Tanzania
- Zambia

LANGUAGES

English (excellent), Afrikaans
(intermediate), siSwati (excellent), isiZulu
(excellent) and Xhosa (excellent)

EMPLOYMENT HISTORY

June 2017 – present: Director: Environmental Management Services, Niara Environmental Consultants

March 2012 – May 2017: Environmental Consultant Human Sciences Department, Digby Wells Environmental, South Africa

January 2010 – December 2010: GIS Technician, Niara Environmental Consultants

October 2008 – October 2009: Client Service Executive, Ernst & Young

July 2007 – August 2008: GIS technician Capturer, Geospace International, (City of Tshwane Public Works and Infrastructure Development Department: Roads and Storm Water Division Project.)

April 2007 – July 2007: Mineral information Management Intern Department of Minerals and Energy, Mpumalanga Regional Office

EXPERIENCE HIGHLIGHTS

The below highlight key recent and relative project experience:

- Environmental Authorisation for Klipspruit Colliery – Inclusion of Pits S & G and Water Use License Application Process, Seriti Power (Pty) Ltd: Project Manager; Stakeholder Engagement Specialist
- Environmental Authorisation Application for The Springfield Colliery, Redan Siding and Vlakfontein Coal Mining Projects by Glubay Coal (Pty) Ltd in The District of Vereeniging and Meyerton, Gauteng: Health Impact Assessments and Social Impact Assessments: Social and Health Specialist and Reports Writer
- Graphit Kropfmühl - Community Impact Assessment for the GK Ancuabe Graphite Mine Graphit Kropfmühl Ancuabe Graphite Mine SA, Cabo Delgado Province Mozambique: Health Specialist and Report Writer
- Health Impact Assessment for the Mining Right Application for Iron Ore for Muhlava Mining on the Farms Berlyn 670 LT and Keulen 669 LT in Tzaneen, Limpopo Province, Titanium Mining (Pty) Ltd, Republic of South Africa: Health Specialist and Report Writer
- Nkomati Mine Closure Project: Community and Occupational Health Assessment Nkomati Joint Venture – a partnership between African Rainbow Minerals Limited and Norilsk Nickel Africa (Pty) Limited (Nkomati Mine)
- Scoping EIA, Water Use License Application, Waste Management Licence Application for the Sasol Sigma Colliery Underground Ash Backfilling Project Sasol Mining (Pty) Ltd Republic of South Africa: Project Manager

Please consult the attached appendix for a comprehensive list detailing the project experiences undertaken.

APPENDIX A: PROJECT EXPERIENCE

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2012	Scoping EIA and Water Use License Application for the Bokoni Platinum Mine: Klipfontein Opencast Mining Operation	Bokoni Platinum Mines (Pty) Ltd Republic of South Africa	Project Administrator
2012	Amendment to City Deep EIA/EMP for the inclusion of Dump 3/L/40 and 3/L/42	Ergo Mining (Pty) Ltd Republic of South Africa	Project Assistant
2012	Community Health Baseline Study for Tonguma	Koidu Holdings Sierra Leone	Project Assistant / Report Writer
2012-2013	Community Health Impact Assessment for the Cooke Uranium Project re-mining of historic tailings facilities and establishment of a single large new Tailings Storage Facility for residual tailings	Gold One International Ltd Republic of South Africa	Health Specialist / Report Writer
2012-2013	Water Use Licence Compliance Audit	Ergo Mining (Pty) Ltd Republic of South Africa	Project Administrator
2013	Community Health Impact assessment for the Vedanta Power Plant and Associated Transmission Lines	Vedanta Zinc International Republic of South Africa	Health Specialist / Report Writer
2013	Community Health Impact Assessment for the Balama Graphite Mine	Syrah Resources Mozambique	Health Specialist / Report Writer
2013	Community Health Impact Assessment for the Putu Iron Ore Project	Atkins Global, Grand Gedeh County, Liberia	Project assistant for Health Impact Assessment
2013	Prospecting Right Application and Environmental Management Program Compilation for the St. Agnesfontein	Glenover Phosphate (Pty) Ltd / FermineOre, Republic of South Africa	Project Administrator
2013-2014	Scoping EIA, Water Use License Application, Waste Management Licence Application for the Sasol Sigma Colliery Underground Ash Backfilling Project	Sasol Mining (Pty) Ltd Republic of South Africa	Project Manager
2013-2014	Basic Assessment Report, Scoping EIA, Water Use License Application for the Sasol Syferfontein Block 4 Expansion Project	Sasol Mining (Pty) Ltd Republic of South Africa	Project Administrator
2013-2014	Community Health Impact Assessment for the Platreef underground platinum mine operation	Platreef Resources (PTY) Ltd Republic of South Africa	Health Specialist / Report Writer
2014	Submission of revised Environmental Impact Assessment and Environmental Management Programme for the Trichardtfontein Project	Glencore Operations South Africa (Pty) Ltd, Republic of South Africa	Project Administrator / Report Co-author

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2014	Amendment to the Nooitgedacht Environmental Impact Assessment and Environmental Management Programme: Inclusion of Seams 2 and 4	Glencore Operations South Africa (Pty) Ltd, Republic of South Africa	Project Administrator / Report Co-author
2014	Community Impact Assessment for the proposed Kamiesberg heavy mineral sands mine Project	Zirco Roode Heuwel (Pty) Ltd Republic of South Africa	Health Specialist / Report Writer
2014	Community Impact Assessment for the proposed Tenge Iron Ore Project	Capitol Resources Limitada –subsidiary of Baobab Resources Plc, Mozambique	Health Specialist / Report Writer
2015	Integrated Water Use Licence Application and Integrated Waste Water Management Plan for the proposed Klipspruit Extension: Weltevreden	BHP Billiton Energy Coal South Africa Limited, Republic of South Africa	Project assistant for the WULA and IWWMP
2015	Integrated Water Use Licence Application for the proposed Middelburg – Mhluzi Powerline Project	Eskom SOC Holdings Limited Republic of South Africa	Project Manager / Report Writer for the WULA
2015	Community Health Impact Assessment for the proposed open-pit magnetite mine and concentrator plant	Pamish Investments No. 39 (Pty) Ltd Republic of South Africa	Health Specialist / Report Writer
2015	Environmental and Social Impact Assessment for the Proposed Nachu Graphite Project	Magnis Resources T/A Uranex Tanzania Ltd, Ruangwa District, Lindi Region Tanzania, East Africa	Health Impact Assessment Report Reviewer
2015	Integrated Water Use Licence Application and Integrated Waste Water Management Plan for the Lanxess Chrome Mine	Lanxess Mining (Pty) Ltd Republic of South Africa	Report Writer for the WULA and IWWMP
2015	De Groote Boom Mining Permit Application: Prescribed Environmental Management Programme	De Groote Boom Minerals (Pty) Ltd Republic of South Africa	Project Administrator and Report Writer
2015	Environmental Impact Assessment and Environmental Management Programme Report for the Proposed Realignment of the P141-1 Provincial Road, Tweefontein Mine Complex, Mpumalanga Province	Glencore Operations South Africa (Pty) Ltd	Report Compiler
2015	Water Use Licence Application for the Proposed Realignment of the P141-1 Provincial Road, Tweefontein Mine Complex, Mpumalanga Province	Glencore Operations South Africa (Pty) Ltd, Republic of South Africa	Report Writer for the WULA and IWWMP

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2015	Community Impact Assessment for the GK Ancuabe Graphite Mine	Graphit Kropfmühl Ancuabe Graphite Mine SA, Cabo Delgado Province Mozambique	Project Manager / Health Specialist / Report Writer
2015	Water Use Licence Application for the Proposed Roodekop Wetland Offset and Compensation Strategy Project	Universal Coal Development IV (Pty) Ltd Republic of South Africa	Report Writer for the WULA and IWWMP
2015	Water Use Licence Application for the proposed Lambda Substation near Volksrust, Mpumalanga and Associated 2 x 400kV & 2 x 765kV Loop in Transmission Line Project	Eskom SOC Holdings Limited Republic of South Africa	Project Manager
2016	Klipspruit Extension: Motivation for The Drilling Of Exploration Holes Within A Wetland	South32 Sa Coal Holdings (Pty) Ltd	Project Administrator / Report Writer
2016	Namane Generation Independent Power Producer and Transmission Line Project, near Lephalale, Limpopo	Namane Generation (Pty) Ltd	Health Specialist
2016	Risk Assessment and Associated General Authorisation for the Proposed KPSX Northern Bypass, in Mpumalanga	South32 SA Coal Holdings (Pty) Limited	Project Manager and Report Writer
2016	Environmental and Social Impact Assessment for the Massawa and Sofia Gold Project, Senegal	Randgold Resources Limited	Health Specialist
2016	Proposed Reclamation of the Grootvlei Tailings Storage Facilities Cluster, near Springs, Gauteng	Ergo Mining (Pty) Ltd Republic of South Africa	Health Specialist
2017	Environmental and Social Impact Assessment for the Proposed Ntem Iron Ore Project, in Cameroon: Health Impact Assessment Report	Caminex SA, Cameroon	Health Specialist
2017	Water Use Licence for the Proposed Pit H and Associated Infrastructure at KPSX: Weltevreden and KPSX: South Operations, in Mpumalanga	South32 SA Coal Holdings (Pty) Limited, Republic of South Africa	Project Manager and Report Writer
2017	Risk Assessment and Associated General Authorisation for the Proposed Substation and 132kV Power Lines in Ogies, Mpumalanga	Eskom Holdings SOC Limited, Republic of South Africa	Project Manager and Report Writer
2017	Wetlands Risk Assessment and Associated General Authorisation for the Proposed Geotechnical Drilling Project at Khutala Colliery, in Mpumalanga	South32 SA Coal Holdings (Pty) Limited, Republic of South Africa	Project Manager and Report Writer

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2017	Community Health Impact Assessment for the Proposed Phase 2 KwaMathukuza Housing Development in KwaMathukuza, Newcastle, KwaZulu-Natal	Phumaf Consulting Engineers, Republic of South Africa	Project Manager and Report Writer
2017	Odour Survey / Assessment for the Proposed Phase 2 KwaMathukuza Housing Development in KwaMathukuza, Newcastle, KwaZulu-Natal	Phumaf Consulting Engineers, Republic of South Africa	Project Manager and Report Writer
2017	Health Impact Assessment for the Mining Right Application for Iron Ore for Muhlava Mining on the Farms Berlyn 670 LT and Keulen 669 LT in Tzaneen, Limpopo Province	Titanium Mining (Pty) Ltd, Republic of South Africa	Project Manager and Report Writer
2017	Emakhazeni Coal Mining Project in the Eastern Basin Coalfield, Mpumalanga Province	Umsimbithi Mining (Pty) Ltd, Republic of South Africa	Health Specialist
2017	Odour Impact Survey for the Proposed Phase 2 KwaMathukuza Housing Development in KwaMathukuza, Newcastle, KwaZulu-Natal	Phumaf Consulting Engineers, Republic of South Africa	Project Manager and Report Writer
2018	Renewal of an Existing Integrated Water Use License for Vlaktefontein Mine: Central Block, Ogies in Mpumalanga Province	African Exploration Mining and Finance Corporation SOC Limited (AEMFC)	Project Manager and Report Writer
2018	2017 IWWMP Update and Amendment for Eskom Lethabo Power Station in Free State	Eskom Holdings SOC Limited	Project Manager and Report Writer
2018	East Block External Integrated Water Use License Audit at Vlaktefontein Mine, Ogies in Mpumalanga Province	African Exploration Mining and Finance Corporation SOC Limited (AEMFC)	Project Manager and Report Writer
2018	Waste Management License Application for NN Metals proposed listed activities of the scrap metal recycling operation located at 300 Mundt Street on Waltloo township ERF 110 in Pretoria within the City of Tshwane Metropolitan Municipality	NN Metals (Pty) Ltd, Pretoria, Republic of South Africa	Project Manager and Report Writer
2018	Community Health Impact Assessment for The Development of the Proposed Leslie 1 Coal Mining Project, near Leandra, Mpumalanga Province	Anglo Operations (Pty) Ltd and Leslie Coal Mine (Pty) Ltd	Health Specialist
2018	The Development of the Proposed Transformer Manufacturing, Repairing and Testing Facility at Portion 189 of the Farm Zandfontein 317JR, Kirkney Industrial Township, Pretoria West: Health Impact Assessment	Contipower (Pty) Ltd	Health Specialist

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2018	Elandsfontein Colliery: Oosbank Coal Siding Draft Environmental Management Programme	Anker Coal, Elandsfontein Colliery (Pty) Ltd	Project Manager and Report Writer
2018	Elandsfontein Colliery (Pty) Ltd: Elandsfontein Mine Integrated Water and Waste Management Plan Annual Update: 2018	Anker Coal, Elandsfontein Colliery (Pty) Ltd	Project Manager and Report Writer
2018	Rehabilitation, Decommissioning and Mine Closure Plan for the Proposed Woestalleen Holdings (Pty) Ltd Coal Mine in Middelburg, Mpumalanga Province	Woestalleen Holdings (Pty) Ltd	Project Manager and Report Writer
2019	Elandsfontein Colliery: Performance Assessment Audit Report on MP 63 MR Environmental Management Programme	Anker Coal, Elandsfontein Colliery (Pty) Ltd	Project Manager and Report Writer
2019	Community Health Impact Assessment The Development of the Proposed Matai Mining Project in Mankwe District, North West Province	Matai Mining (Pty) Ltd	Project Manager and Report Writer
2019	Social Impact Assessment The Development of the Proposed Matai Mining Project in Mankwe District, North West Province	Matai Mining (Pty) Ltd	Project Manager and Report Writer
2019	Health Impact Assessment Report The Development of the Proposed Panfontein Mining Project in the Magisterial District of Vereeniging, Gauteng Province	Richtrau 253 (Pty) Ltd	Project Manager and Report Writer
2019	Socio-economic Impact Assessment Report The Development of the Proposed Panfontein Mining Project in the Magisterial District of Vereeniging, Gauteng Province	Richtrau 253 (Pty) Ltd	Project Manager and Report Writer
2019	Elandsfontein Colliery (Pty) Ltd: Elandsfontein Mine Integrated Water and Waste Management Plan and RSIP Annual Update: 2019	Anker Coal, Elandsfontein Colliery (Pty) Ltd	Project Manager and Report Writer
2019	Vlakfontein Colliery Financial Provision Assessment: 2019	African Exploration Mining and Finance Corporation (SOC) Ltd (AEMFC)	Project Manager and Report Reviewer
2019	Inyanda Coal Mine Integrated Water and Waste Management Plan Update: 2019	Inyanda Mining Holdings (Pty) Ltd	Report Writer

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2019	Inyanda Coal Mine Rehabilitation Strategy and Implementation Plan	Inyanda Mining Holdings (Pty) Ltd	Report Writer
2019	Health Risk Assessment for The Proposed Residential Development on Various Portions of The Farm Rooikoppies 297-JQ	Seaton Thomson and Associates Cc	Specialist and Report Writer
2019	Application for Environmental Authorisation and A Change of Land Use for the Proposed Musina-Makhado Special Economic Zone (SEZ) in the Limpopo Province Health Impact Assessment Report	Limpopo Economic Development Agency (LEDA)	Specialist and Report Writer
2019	Integrated Environmental Authorisation Process for the Proposed Weltevreden Mining Right Application, Socio-economic Impact Assessment Report	Saldomate (Pty) Ltd	Specialist and Report Writer
2019	Integrated Environmental Authorisation Process for the Proposed Wildebeestfontein Mining Right Application, Socio-economic Impact Assessment Report and Social and Labour Plan	Opsirex (Pty) Ltd	Specialist and Report Writer
2020	Proposed Aggregate and Gravel Mining in Bizana, Eastern Cape: Social and Labour Plan	Ilitye Industrial (Pty) Ltd	Specialist and Report Writer
2020	Integrated Water Use Licence Application and IWWMP: Inyanda Coal Mine Rehabilitation Strategy and Implementation Plan	Inyanda Mining Holdings (Pty) Ltd	Report Writer
2020	Integrated Water Use Licence Application and IWWMP: The Development of the Proposed Panfontein Mining Project in the Magisterial District of Vereeniging, Gauteng Province	Richtrau 253 (Pty) Ltd	Project Manager and Report Writer
2020	Integrated Environmental Authorisation Process for the Proposed Van Oudshoornstroom Mining Right Application: Socio-economic Impact Assessment Report	Estate Late Philippus Christoffel Johannes De Jager	Specialist and Report Writer
2020	Nkomati Mine Closure Project: Community and Occupational Health Assessment	Nkomati Joint Venture – a partnership between African Rainbow Minerals Limited and Norilsk Nickel Africa (Pty) Limited (Nkomati Mine	Specialist and Report Writer
2020	Social Impact Assessment Report for the Development of the Proposed Zelpy Kafferskraal Mining Right Application	Zelpy Gold Mine (Pty) Ltd	Specialist and Report Writer

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2020	Health Impact Assessment Report for the Development of the Proposed Zelpy Kafferskraal Mining Right Application	Zelpy Gold Mine (Pty) Ltd	Specialist and Report Writer
2020	Environmental Authorisation and Water Use Licence Application for The Electrissurv Cc Beneficiation Plant	Electrissurv Surveying CC	Project Manager and Reports Writer
2020	Mining Right Application of the Proposed Springfield Opencast Colliery, near Meyerton & Vereeniging in the Gauteng Province: Health Impact Assessment	Glubay Coal (Pty) Ltd, an affiliated company of Canyon Resources (Pty) Ltd	Specialist and Report Writer
2020	Koppie Canyon Mining Right Application near Hendrina, Mpumalanga: Social Impact Assessment Report and Social and Labour Plan	Canyon Resources (Pty) Ltd	Specialist and Report Writer
2020	Risenga Colliery Water Use Licence Application: Integrated Water and Waste Management Plan	SARMCO Group (Pty) Ltd	Project Manager and Report Writer
2021	Integrated Water and Waste Management Plan (IWWMP) for the Proposed Samara Prospecting Right near Barkley West, Northern Cape	Samara Mining (Pty) Ltd	Specialist and Report Writer
2021	Social Impact Assessment Report and Social and Labour Plan for the Development of the Lakeside Colliery S102 Amendment	Zomhlaba Resources (Pty) Ltd	Specialist and Report Writer
2021	Social Impact Assessment Report and Social and Labour Plan for the Development of the Leeuwfontein Colliery S102 Amendment	Zomhlaba Resources (Pty) Ltd	Specialist and Report Writer
2021	Health Impact Assessment Report for the Development of the Proposed Ericure Dannhauser Coal Project	Ericure (Pty) Ltd	Specialist and Report Writer
2021	Application for Environmental Authorisation and Water Use Licence Application for the Proposed Middelburg Mining Services (MMS) Boschmanskrans Section Implementation of Wetland Mitigation and Offset Strategy: Social Impact Assessment	South32 SA Coal Holdings (Pty) Limited: South Africa Energy Coal	Specialist and Report Writer
2021	Application for General Authorisation: Ifaletu Colliery, Middelburg, Mpumalanga	South32 SA Coal Holdings (Pty) Limited: South Africa Energy Coal	Specialist and Report Writer

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2021	Application for Environmental Authorisation and Water Use Licence Application for the Proposed Middelburg Mining Services (MMS) Boschmanskrans Section Implementation of Wetland Mitigation and Offset Strategy: Water Use Licence Application	South32 SA Coal Holdings (Pty) Limited: South Africa Energy Coal	Specialist and Report Writer
2021	Social Impact Assessment for the Proposed Farm Marsh Lusern and Hydroponics Systems Project: Social Impact Assessment	Sishen Iron Ore Company (Pty) Ltd	Specialist and Report Writer
2021	Environmental Regulatory Process Required for the Proposed Wolvekrans Colliery Boschmanskrans Section Mining Extension Project Wetland Mitigation and Offset Strategy near Middelburg, Mpumalanga	South32 SA Coal Holdings (Pty) Ltd	Project Manager
2021	Water Use Licence Application for the Proposed Wolvekrans Colliery Boschmanskrans Section Mining Extension Project Wetland Mitigation and Offset Strategy	South32 SA Coal Holdings (Pty) Ltd	Specialist and Report Writer
2021	Social Impact Assessment for the Proposed Wolvekrans Colliery Boschmanskrans Section Mining Extension Project Wetland Mitigation and Offset Strategy	South32 SA Coal Holdings (Pty) Ltd	Specialist and Report Writer
2021	Environmental Impact Assessment and IWUL for the Proposed Ikwezi Vanadium Mine, near Northam	Ikwezi Mining (Pty) Ltd	Project Manager
2021	Social Impact Assessment and IWUL for the Proposed Ikwezi Vanadium Mine, near Northam	Ikwezi Mining (Pty) Ltd	Specialist and Report Writer
2021	Integrated Environmental Authorisation Process for The Proposed Aangewys Coal Mine Mining Right Application: Social Impact Assessment	National Treasure Minerals (Pty) Ltd	Specialist and Report Writer
2021	Social and Labour Plan for The Proposed Straffontein Colliery Mining Right Application	Mnambithi Mining (Pty) Ltd	Specialist and Report Writer
2021	Integrated Environmental Authorisation Process for The Proposed Straffontein Colliery Mining Right Application: Social Impact Assessment	Mnambithi Mining (Pty) Ltd	Specialist and Report Writer
2021	Environmental Authorisation and Water Use Licence Application for The Construction of the Doornpoort Pumping Main and Pump Station Project	eMalahleni Local Municipality	Project Manager and Report Writer
2021	Environmental Audit Report for Sekoko Coal – 2021	M3P Mining (Pty) Ltd	Project Manager

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2021	Environmental Authorisation required for Prospecting Right Application on various Portions of the Farm Schaapkopje 194 HT, 5km North of Vryheid Town in the Abaqulusi Local Municipality, KwaZulu Natal	Tuutuuka Resources (Pty) Ltd	Project Manager and Report Writer
2021	Basic Assessment Process and Water Use Licence Application for the Alignment of the Klipspruit Colliery Environmental Management Programme for Klipspruit Colliery, Mpumalanga Province	Seriti Power (Pty) Ltd	Project Manager and Report Writer
2022	Social and Labour Plan for The Proposed Roodepoort Coal Mine	Roodepoort Coal (Pty) Ltd	Specialist and Report Writer
2022	Social Impact Assessment for The Proposed Roodepoort Coal Mine on Farm Roodepoort 40 Is Portion 15, Nkangala District Municipality Within the eMalahleni Local Municipality, Mpumalanga Province	Roodepoort Coal (Pty) Ltd	Specialist and Report Writer
2022	Social and Labour Plan for Kleinwater Colliery	Madini Mining (Pty) Ltd	Specialist and Report Writer
2022	Social Impact Assessment for the Section 102 Amendment in Respect of Portions 2, 8, 9 of the Farm Kleinwater 301 JS, Portions 11, 39, 40 Of the Farm Doornrug 302 JS, and the Remaining Extent of the Farm Rondebult 303 JS, eMalahleni Local Municipality, Mpumalanga	Madini Mining (Pty) Ltd	Specialist and Report Writer
2022	Health Impact Assessment for the Proposed Nellmapius Extension 26 Township on Various Portions of The Farm Hatherley 331 JR, City of Tshwane Metropolitan Council	Tambura 69 Trust	Specialist and Report Writer
2022	Environmental Impact Assessment (EIA) and Water Use Licence Application for The Grootlaagte Opencast Mine Mining Right Application Situated in The Steve Tshwete Local Municipality, Nkangala District Municipality in Mpumalanga	Arnot OpCo (Pty) Ltd	Project Manager and Report Writer
2022	Basic Assessment Process and Water Use Licence for The Proposed Upgrade of Weltevreden Wetland Interventions	Seriti Power (Pty) Ltd	Project Manager and Report Writer
2022	Social Impact Assessment for the Blesboklaagte S102 EA IWUL and WL	Eyethu Coal (Pty) Ltd	Specialist and Report Writer

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2022	Environmental Authorisation for Klipspruit Colliery - Pit H: Regulation 31 Amendment and Water Use License Application	Seriti Power (Pty) Ltd	Project Manager and Report Writer
2022	Social Impact Assessment for the proposed Wonderhoek Open Cast Coal Mine near Middelburg, Mpumalanga Province	Wonderhoek Colliery (Pty) Ltd	Specialist and Report Writer
2022	Community Health Impact Assessment for the proposed Interwaste Brakkefontein Waste Management Facility near Atlantis, Western Cape	SLR Consulting on behalf of Interwaste (Pty) Ltd	Specialist and Report Writer
2022	Community Health Impact Assessment for the proposed Wonderhoek Open Cast Coal Mine near Middelburg, Mpumalanga Province	Wonderhoek Colliery (Pty) Ltd	Specialist and Report Writer
2022	Community Health Impact Assessment for the proposed Schurvekop Underground Coal Mine near Bethal in Mpumalanga	Mmakau Coal (Pty) Ltd	Specialist and Report Writer
2022	Public Participation Process in Support of the Queenstown Quarry S102 Amendment Process, Eastern Cape	Raumix Aggregates, a subsidiary of Raubex Group Ltd	PPP and Stakeholder Engagement Specialist
2022	Community Health Impact Assessment for the proposed Arengo Iron-Ore Project	Arengo 297 (Pty) Ltd	Specialist and Report Writer
2022	Water Use Licence Application and Associated Specialist Studies for the proposed Idwala Coal Mine	Idwala Coal Mine (Pty) Ltd	Specialist and Report Writer
2022	Rapid Appraisal Health Impact Assessment for the Proposed Platinum Pride Crematorium in Cape Town	Sharples Environmental Services cc (SES)	Specialist and Report Writer
2022	Rapid Appraisal Health Impact Assessment for the Proposed Construction and Operation of a Cement Grinding Facility and Storage of Dangerous Goods Located in Blackheath Within the City of Cape Town Municipality	Cemza Coastal (Pty) Ltd	Specialist and Report Writer
2022	Environmental Authorisation for Klipspruit Colliery – Inclusion of Pits S & G and Water Use License Application Process	Seriti Power (Pty) Ltd	Project Manager; Stakeholder Engagement Specialist

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2022-2023	ZNT 03 EDTEA 2021/2022 KwaZulu-Natal Air Quality Management Plan Draft Air Quality Management Plan – Provincial Stakeholder Engagement / PPP	Kwazulu-Natal: Department of Economic Development, Tourism and Environmental Affairs	PPP and Stakeholder Engagement Specialist
2023	Community Health Impact Assessment for the proposed Holfontein Waste Management Facility Expansion Project	EnviroServ Waste Management (Pty) Ltd	
2023	Social Impact Assessment for the Proposed Highbury Mining Right Application in the Magisterial District of Port Shepstone in the Ray Nkonyeni Local Municipality, KwaZulu Natal Province	SA Lithium (Pty) Ltd	Specialist and Report Writer
2023	Environmental Authorisation Process for the proposed Pivaanspoort Prospecting Right Application in Vryheid, KwaZulu-Natal	Pivaanspoort Mining (Pty) Ltd	PPP and Stakeholder Engagement Specialist
2023	Rapid Appraisal Health Impact Assessment for the Proposed Housing Development on Erf 43937 in Colorado Park, Mitchell's Plain	The City of Cape Town (CoCT) Metropolitan Municipality	Specialist and Report Writer
2023	Health Impact Assessment for the Proposed Highbury Mining Right Application in the Magisterial District of Port Shepstone in the Ray Nkonyeni Local Municipality, KwaZulu Natal Province	SA Lithium (Pty) Ltd	Specialist and Report Writer
2023	Public Participation Process for the proposed Wonderhoek Open Cast Coal Mine near Middelburg, Mpumalanga Province	Wonderhoek Colliery (Pty) Ltd	PPP and Stakeholder Engagement Specialist
2023	Environmental Authorisation Application for The Vlakfontein Coal Mining Project by Glubay Coal (Pty) Ltd in The District of Vereeniging and Meyerton, Gauteng: Health Impact Assessment	Glubay Coal (Pty) Ltd	Specialist and Report Writer
2023	Community Health Impact Assessment for the Proposed Multisand General Waste Management Facility Project	Multisand (Pty) Ltd	Specialist and Report Writer
2023	Seriti MMS Environmental Management Programme (EMPr) Consolidation	Seriti Coal (Pty) Ltd	Project Manager and Report Writer
2023	Randfontein Estates Limited: Doornkop Underground Mining Operations Water Use Licence Application (WU29548) and Associated Specialist Studies	Randfontein Estates Limited (a subsidiary of Harmony Gold Mining Company Limited)	Project Manager, Report Compiler and Reviewer

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2023	Klipspruit Extension EIA and WUL: Alignment from opencast to underground	Seriti Coal (Pty) Ltd	Project Manager, Report Compiler and Reviewer
2023	Integrated Environmental Authorisation Process for the Proposed Coastal Fuels: Alkmaar Mining Right Application: Social Impact Assessment	Coastal Fuels	Specialist and Report Writer
2023	Environmental Authorisation Application for The Redan Siding Project by Glubay Coal (Pty) Ltd in The District of Vereeniging and Meyerton, Gauteng: Health Impact Assessment	Glubay Coal (Pty) Ltd	Specialist and Report Writer
2023	Environmental Services for the Upgrade of N11 Section 3 from Newcastle South (KM 50.00) to Ncandu River (KM 57.20) in KwaZulu-Natal Province: Socio-Economic Impact Assessment	South African National Roads Agency SOC Ltd	Specialist and Report Writer
2023	Health Impact Assessment for the Proposed Manganese Slag Processing Plant and Associated Infrastructure in eMalahleni,	Zonglin Resources (Pty) Ltd	Specialist and Report Writer
2023	Community Health Impact Assessment for the Shiva Uranium Mine in the North West Province	Industrial Development Corporation of South Africa Limited (IDC)	Specialist and Report Writer
2023	Health Impact Assessment for the Proposed Samancor TC Smelter Plant: Addition of Two 70 MW Furnaces	Samancor Terris Chrome Smelters Ltd (Pty)	Specialist and Report Writer
2023	Environmental Control Officer Services for Water Conservation and Demand Management in Standerton	Gert Sibande District Municipality	Specialist and Report Writer
2024	Social Impact Assessment for the proposed Bengwenyama Underground Mining Project in the Sekhukhune District Municipality, Limpopo	Miracle Upon Miracle Investments (Pty) Ltd	Specialist and Report Writer
2024	Social Impact Assessment for the Proposed the Development of Coal Mine within Abaqulusi Local Municipality of Zululand District Municipality, KwaZulu Natal Province	Amora Properties (Pty) Ltd	Specialist and Report Writer
2024	External Environmental Audits for MMS (EMPRs, WULS, and WML Audits)	Seriti Power (Pty) Ltd	Specialist and Report Writer
2024	Seriti MMS General Authorisation for Exploration Drilling on Portions 15 and 16	Seriti Power (Pty) Ltd	Specialist and Report Writer

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2024	Social Impact Assessment Study for the proposed Palmietfontein Mining Right Application, in the Moses Kotane Local Municipality	Palm Chrome (Pty) Ltd	Specialist and Report Writer
2024	Social Impact Assessment Study for the Izimbiwa Coal Banana Republic (Rietfontein Colliery) S102 Amendment Process, near Middelburg, Mpumalanga	Izimbiwa Coal (Pty) Ltd	Specialist and Report Writer
2024	Social Impact Assessment Study for the Izimbiwa Coal Townlands (Uitkyk Colliery) S102 Amendment Process, near Middelburg, Mpumalanga	Izimbiwa Coal (Pty) Ltd	Specialist and Report Writer
2024	Social and Labour Plan for the proposed Palmietfontein Mining Right Application, in the Moses Kotane Local Municipality	Palm Chrome (Pty) Ltd	Specialist and Report Writer
2024	Social Impact Assessment for the proposed Samancor Western Chrome Mine, near Mooinooi, in the North West Province	Samancor Chrome (Pty) Ltd	Specialist and Report Writer
2024	Social Impact Assessment for the Ivanplats Application for Integrated Environmental Authorisation for the proposed Dry Stack TSF Project	Ivanplats (Pty) Ltd	Specialist and Report Writer
2024	Public Participation Process/ Stakeholder Engagement for the Ivanplats Application for Integrated Environmental Authorisation for the proposed Dry Stack TSF Project	Ivanplats (Pty) Ltd	Specialist and Report Writer
2024	Social Impact Assessment for the proposed Fuleni Mining Project within King Cetshwayo District Municipality, uMfolozi Municipality, Kwa-Zulu Natal Province	Imvukuzane Resources (Pty) Ltd	Specialist and Report Writer
2024	Kusasaletu Deelkraal Water Use Licence and GN 704 Audits	Harmony Gold Mining Company Limited	Specialist and Report Writer
2024	Health Impact Assessment for the proposed Fuleni Mining Project within King Cetshwayo District Municipality, uMfolozi Municipality, Kwa-Zulu Natal Province	Imvukuzane Resources (Pty) Ltd	Specialist and Report Writer
2024	Health Impact Assessment for the proposed Underground Expansion Project at East and West Mines for Tharisa Minerals Near Marikana, North West Province	Tharisa Minerals (Pty) Ltd	Specialist and Report Writer

**Environmental Assessment
Practitioners Association
of South Africa**



Registration No. 2019/1183

Herewith certifies that

Vumile Celiwe Ribeiro

is registered as an

Environmental Assessment Practitioner

***Registered in accordance with the prescribed criteria of Regulation 15. (1)
of the Section 24H Registration Authority Regulations
(Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the
National Environmental Management Act (NEMA), Act No. 107 of 1998, as
amended).***

Effective: 01 March 2024

Expires: 28 February 2025

Chairperson

Registrar



EAPASA

Unit 19 Oxford Office Park
3 Bauhinia Street
Highveld Techno Park
Centurion
0157
Tel. (+27) 12 880 2154

Environmental Assessment Practitioners Association of South Africa

Advancing environmental assessment practice in South Africa



Email: registrar@eapasa.org / Website: www.eapasa.org

Mrs Vumile Ribeiro
28 Shamrock Street
Ferndale
Randburg
2194

Sent by email to: vumile@niara.co.za

Dear Mrs Ribeiro

Registered Environmental Assessment Practitioner: Number 2019/1183
Vumile Celiwe Ribeiro : South African ID 8605090831080

The Environmental Assessment Practitioners Association of South Africa (EAPASA) herewith certifies that Vumile Celiwe Ribeiro is a Registered Environmental Assessment Practitioner (EAP) in accordance with the prescribed criteria of Regulation 15.(1) of the Section 24H Registration Authority Regulations (Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the National Environmental Management Act (NEMA), Act No. 107 of 1998, as amended).

Your registration is duly authorised by EAPASA as the single Registration Authority for EAPs in South Africa (appointed as per Regulation No. 104, Gazette No. 41434 of 8 February 2018, in terms of section 24H(3)(a) of the NEMA). Your status as a Registered EAP is displayed in the 'EAP Register' - please find your name and contact email address at

<https://registration.eapasa.org/registered-practitioners>

Your registration is effective for a period of five years from 08 February 2024, and expires on 08 February 2029. The renewal of your registration in 2029 will be contingent on you having met the requirements of EAPASA's Continuing Professional Development (CPD) policy during each year of registration.

As a Registered EAP you are required to uphold the EAPASA Code of Ethical Conduct and Practice in your professional endeavours, towards the goal of quality assurance in environmental assessment practice.

Please accept my congratulations on your registration.

Best regards

Dr Patrick Sithole
Registrar

Date: 08 February 2024

*Board Members: Ms Snowy Makhudu (Chairperson), Dr Khangwelo Desmond Musetsho (Vice-Chairperson),
Mr Zama Dlamini, Ms Jacqui Hex, Ms Minnette Le Roux, Ms Thato Moeeng,
Ms Jennifer Molwantwa, Mr Phumudzo Nethwadzi, Mr Danie Neumann,
Mr Khathutshelo Tshipala, Ms Lethogonolo Tungamirai*
Registrar: Dr Patrick Sithole
NPO Reg. No. 122-986



IAIAsa Secretariat
Tel +27(0)11 655 7183
Fax 086 662 9849

Address:
43 Birchwood Court, Montrose
Street, Vorna Valley, Midrand, 1618

Postal address:
PO Box 11666, Vorna Valley, 1686

Email: operations@iaiasa.co.za

Website: www.iaiasa.co.za

IAIAsa Confirmation of Membership: 2024/2025

Vumile Ribeiro | Membership no: 5925

TO WHOM IT MAY CONCERN

This certificate confirms that Vumile Ribeiro, from Niara Environmental Consultants (Pty) Ltd with membership number: 5925 is a paid-up Full Member in good standing of the International Association for Impact Assessment South Africa and has been a member of IAIAsa since Thursday, March 1, 2018 to date.

This membership is valid from 1 March 2024 to 28 February 2025.

IAIAsa is a voluntary organisation and is not a statutory body regulating the profession. Its members are however expected to abide by the organisation's code of ethics which is available on our website.

IAIAsa is an Affiliate of IAIA, which is an international body, through a memorandum of understanding. IAIA is not responsible or liable for the actions or activities of the Affiliates. Membership of one does not imply membership of the other.

Any enquiries regarding this membership may be directed to the Secretariat at the above contact details.

Yours sincerely

Greg Beyers
President 2023/2024

President: G. Beyers, Past President: M. Sham, President Elect: C. Niemandt, Secretary: D. Moodley, Treasurer: C. Niemandt.
Members: H. Antonopoulos, T. Mutshatshi, A. Sharkey, B. Wiesner, A. Woghiren. Branch Chairs: N. Arnott, H. Bassa, E. Kruger,
Z. Mkhize, L. Ndou



IAIAsa Secretariat
Tel +27(0)11 655 7183
Fax 086 662 9849

Address:
43 Birchwood Court, Montrose
Street, Vorna Valley, Midrand,
1618

Postal address:
PO Box 11666, Vorna Valley,
1686
Email: operations@iaiasa.co.za
Website: www.iaiasa.co.za

IAIAsa Confirmation of Membership: 2024/2025
Vumile Ribeiro (Dlamini) Membership Number: 5925

04 Mar 2024

TO WHOM IT MAY CONCERN

Mrs Vumile Ribeiro (Dlamini), Niara Environmental Consultants (IAIAsa membership Number **5925**) is a paid-up Full Member in good standing of International Association for Impact Assessment, South Africa and has been a member of IAIAsa since 01 Mar 2018.

Membership has been continuous from 01 Mar 2018 to date.

This membership is valid from 01 Mar 2024 to 28 Feb 2025.

IAIAsa is a voluntary organisation and is not a statutory body regulating the profession. Its members are however expected to abide by the organisation's code of ethics which is available on our website.

IAIAsa is an Affiliate of IAIA which is an international body through a memorandum of understanding. IAIA is not responsible or liable for the actions or activities of the Affiliates. Membership of one does not imply membership of the other.

Any enquiries regarding this membership may be directed to the Secretariat at the above contact details.

Yours sincerely

Greg Beyers
President 2023/2024

President: G Beyers, Past President: M. Sham, President Elect: C. Niemandt, Treasurer: C Niemandt, Secretary: D. Moodley. Members: H. Antonopoulos, T. Mutshatshi, A. Sharkey, B. Wiesner, A. Woghiren. Branch Chairs: N. Arnott, H. Bassa, E. Kruger, L. Ndou, Z. Mkhize, O. Sebetlele.



PHASA

Public Health Association
of South Africa

MEMBERSHIP CERTIFICATE

This certifies that

Vumile Ribeiro

is a registered member of the **Public Health Association of South Africa**

Membership number: 2022378

Membership period ends: 03-18-2025

19th March 2024

Date

PHASA President

Secretariat Enquiries

secretariat@phasa.org.za or phasa.info@gmail.com



STUDENT NUMBER 28419660
SURNAME Dlamini
FIRST NAMES Vumile Celiwe
DATE OF BIRTH 1986-05-09
TYPE OF EXEMPTION Gr 12 not required

DATE ISSUED 2012-02-23

LIST OF COURSES PASSED

2011 (Full-time)		Program: BSocSci Hons	Plan: Environmental Anal and Mngm		
Course offering	Description	Academic progress unit	%	Decision result	
GGY 793	Geography of land reform 793	20	75	A- (Pass with distinction)	
GGY 785	Env impact assess and man 785	20	68	B+ (Pass)	
GGY 780	Urban geography of SA 780	20	75	A- (Pass with distinction)	
GGY 729	Industrial environmental 729	20	78	A- (Pass with distinction)	
GGY 727	Environmental compliance 727	20	68	B+ (Pass)	
GGY 711	Environmental principles 711	20	75	A- (Pass with distinction)	
GGY 703	Research and presen skills 703	10	68	B+ (Pass)	
GGY 702	Geography Project 702	30	73	B+ (Pass)	

Term percentage average: 72.81
Cumulative Percentage Average: 72.81

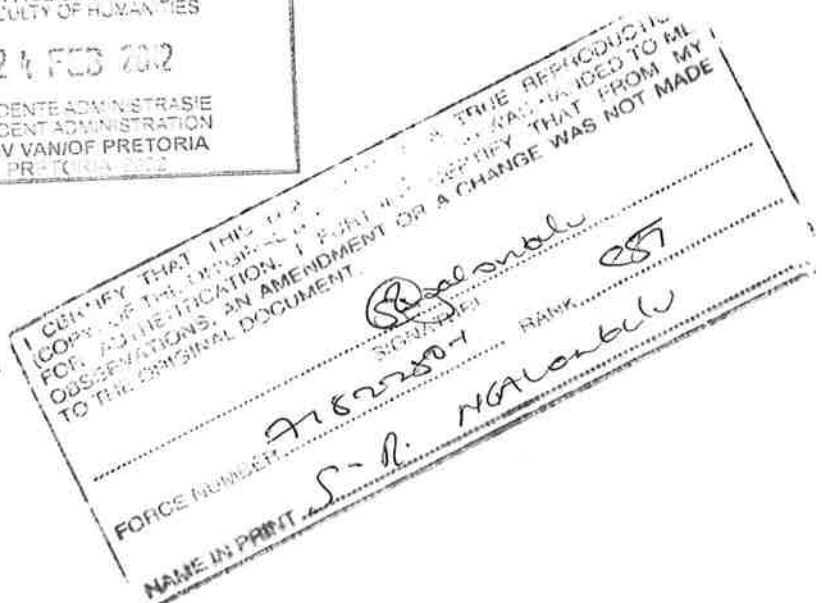
Outcome: Bachelor of Social Sciences Honours

The abovementioned student formally complied with all the requirements for the qualification: Bachelor of Social Sciences Honours on 2012-01-31 and this qualification will be conferred/issued on 2012-04-23

2012 (Full-time)		Program: BSocSci Hons	Plan: Environmental Anal and Mngm		
In partial fulfilment of the requirements for Bachelor of Social Sciences Honours					
Course offering	Description	Academic progress unit	%	Decision result	

Term percentage average: 0.00
Cumulative Percentage Average: 72.81

R. M. M. M. M.
for REGISTRAR





University of Pretoria
 Faculty of Natural and Agricultural Sciences
 Centre for Environmental Studies

This is to certify that

VC Dlamini

has successfully completed the

**Basic Training Course for
 Environmental Inspection**

July to December 2011

CERTIFIED A TRUE COPY
 OF THE ORIGINAL

Tshegofatso Mokoena
 13 Eton Road
 Parktown, 2193, Johannesburg
 Commissioner of Oaths *Ex Officio*
 Practising Attorney
 Republic of South Africa
 041 081 2023

Course Leader

General Manager CE&EP



UNIVERSITY OF KWAZULU-NATAL

The Universities of Durban-Westville and Natal merged
to become the University of KwaZulu-Natal on 1 January 2004

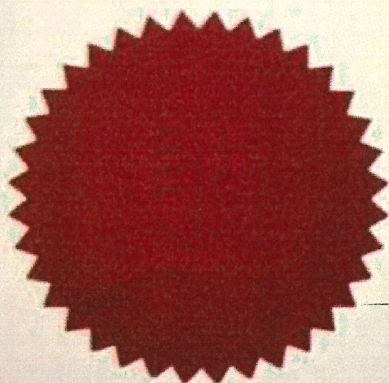
This is to certify that

Vumile Celiwe Dlamini

was admitted this day
at a congregation of the University
to the degree of

**Bachelor of Social Science
(Geography and Environmental Management)**

having satisfied the conditions prescribed for the degree.



CERTIFIED A TRUE COPY
OF THE ORIGINAL

Tshegofatso Mokoena
13 Eton Road
Parktown, 2193, Johannesburg
Commissioner of Oaths *Ex Officio*
Practising Attorney
Republic of South Africa

04/08/2023

23 April 2007

LIV PROTECTED

M W Mafgohe
Vice-Chancellor

E Moseny
Registrar

D P McCracken
Dean



Hereby Certifies that

VUMILE DLAMINI

has completed the e-learning course

**INTRODUCTION TO CLINICAL
RESEARCH**

with a score of

89%

on

05/12/2018

This e-learning course has been formally recognised for its quality and content by the following organisations and institutions



Global Health Training Centre
globalhealthtrainingcentre.org/elearning

Certificate Number 579917

Nolwazi Dlamini

Jnr Environmental Consultant
Registered EAP No. 2022/5249

Address: 74 Vista drive, Glenvista Johannesburg
Email: Nolwazi@niara.co.za
Contact No: +27 83 690 9515



EDUCATION AND QUALIFICATIONS

- BSocSc. (Geography and Environmental Management) University of KwaZulu Natal (2020)
- BSc. Hons. (Geography) University of Witwatersrand (2021)

AFFILIATIONS

- Environmental Assessment Practitioners Association of South Africa (EAPASA)

YEARS OF EXPERIENCE

- 2 years

KEY COMPETENCIES

- Project Management
- Legal Compliance Audits: Environmental / Health & Safety
- Environmental Control Officer
- Performance Assessments (Environmental Audits) on mine EMPs
- Compliance Audits on Environmental Authorisations (e.g., ROD's, Water, Air and Waste Licenses)
- Consolidated Compliance Programmes
- Environmental Impact Assessments
- Basic Assessment Reports
- Mineral Law -Mining Rights and Permits

BIOGRAPHY

Nolwazi Dlamini is an environmental professional who has more than two (2) years of experience working in the Environmental Management field. She currently holds the title of junior environmental consultant at Niara Environmental Consultants (Pty) Ltd . She has more than one (1) year working as an Environmental Assessment Practitioner (EAP) in the mining sector where she has performed numerous environmental assessments (Environmental audits, financial provision & WML applications), Water Use Licence Application (WULA) as well as Basic assessment reports (BAR), Scoping and Environmental impact assessment(S&EIA) and Environmental management programmes (EMPr). One (1) year working as an Environmental Consultant in the petroleum industry where she worked under a Air quality specialist and was responsible for environmental compliance monitoring for Engen depots and Retail sites (EA & EMP); Retail & commercial site EIA gap closure monitoring; Air emission (AEL) & water use License (WUL) compliance as well as preparing internal environmental procedures (Air emission, waste, environmental safety).She is a seasoned Environmental Assessment Practitioner with a thorough understanding of the potential environmental and social impacts of activities in a variety of environmental settings. Her core competencies include research and report writing, specialist report review and environmental impact assessments

EMPLOYMENT HISTORY

July 2024 – present: Jnr Environmental Consultant, Niara Environmental Consultants (Pty) Ltd

May 2023 – May 2024: Petroleum & Environmental Consultant, Vahlengwe mining Advisory and Consulting, South Africa

December 2021 – December 2022: Environmental intern, Engen Petroleum, South Africa

- Environmental Authorisation Applications
- Water Use License Applications
- Waste Management License Applications
- Co-ordinating and conducting Public Involvement processes.
- Social Assessment (Stakeholder and Social Analysis)
- Public Participation Process and Stakeholder consultation and mediation
- GIS

COUNTRIES OF WORK EXPERIENCE

- South Africa

LANGUAGES

English (excellent), Sesotho (intermediate), siSwati (excellent), and isiZulu (excellent)

EXPERIENCE HIGHLIGHTS

The below highlight key recent and relative project experience:

- BAR & EMPPr, Section 102 for
- Scoping and EIA , Prospecting Right application for Gomeza Trading (PTY) Ltd
- BAR & EMPPr, Waste Management licence for Mona Le Mane (Pty) Ltd
- BAR & Empr, Prospecting Right application for Podlet (Pty) Ltd
- Environmental compliance monitoring & Financial provision for Franco Sand and Stone (Pty) Ltd
- Environmental compliance monitoring & Financial provision for Ngwenya Mine (Pty) Ltd
- Environmental compliance monitoring & Financial provision for Analiza boedery (Pty) Ltd
- Environmental compliance monitoring of Engen Deports (Langlaagte, Kempton park, witbank)

Please consult the attached appendix for a comprehensive list detailing the project experiences undertaken.

APPENDIX A: PROJECT EXPERIENCE

Duration	Assignment name / brief description of main deliverables/outputs	Name of client and country of assignment	Role on the assignment
2024	BAR & EMPr, Regulation 31 amendment for Harmony :Doornkop	Harmony Gold Mining Company Limited	Project assistant & Report compiler
2024	BAR & EMPr , Section 102 application for Ngobeni family Trust	Ngobeni family trust	Project assistant & Report reviewer
2024	Environmental compliance monitoring & Financial provision for Insite trading (Pty) Ltd	Insite trading (Pty) Ltd	Auditor & Report compiler
2024	Scoping and EIA , Prospecting Right application for Gomeza Trading (PTY) Ltd	Gomeza Trading (PTY) Ltd	Project lead & Report Compiler
2024	BAR & EMPR, Waste Management licence for Mona Le Mane (Pty) Ltd	Mona Le Mane (Pty) Ltd	Project lead & Report Compiler
2024	BAR & Empr, Prospecting Right application for Podlet (Pty) Ltd	Podlet (Pty) Ltd	Project lead & Report Compiler
2023	Environmental compliance monitoring & Financial provision for Ngwenya mine (Pty) Ltd	Ngwenya mine (Pty) Ltd	Auditor & Report compiler
2023	Environmental compliance monitoring & Financial provision for Franco Sand and Stone (Pty) Ltd	Franco Sand and Stone (Pty) Ltd	Auditor & Report compiler
2023	Environmental compliance monitoring & Financial provision for Analiza Boedery (Pty) Ltd	Analiza Boedery (Pty) Ltd	Auditor & Report compiler
2022	Environmental compliance monitoring of Engen Deports (Langlaagte, Kempton park, Witbank)	Engen Petroleum, South Africa	Project assistant



UNIVERSITY OF
KWAZULU-NATALTM

INYUVESI
YAKWAZULU-NATALI

This is to certify that

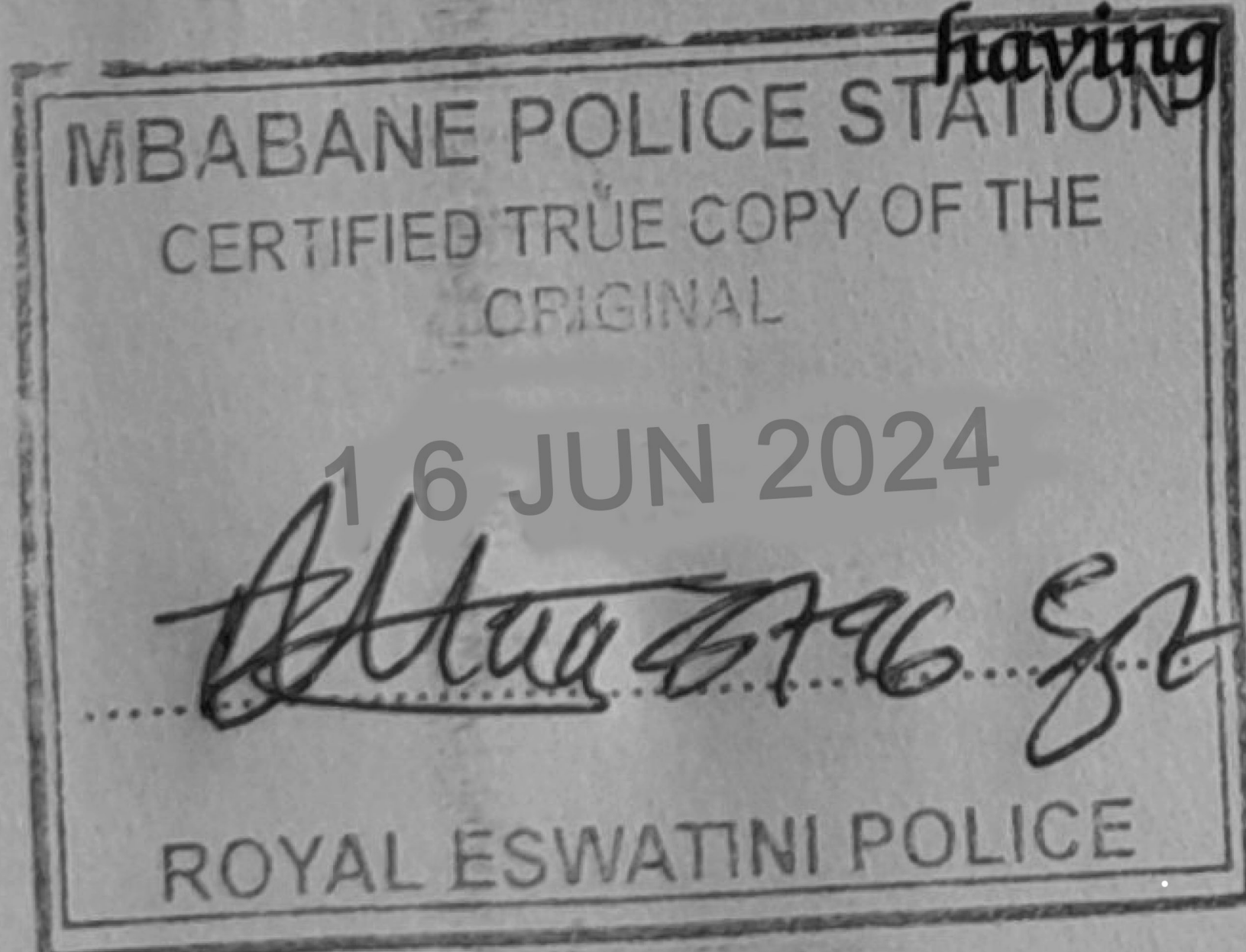
Nolwazi Lomalangeni Dlamini

was admitted this day
at a congregation of the University
to the degree of

Bachelor of Social Science

(Geography and Environmental Management)

having satisfied the conditions prescribed for the degree

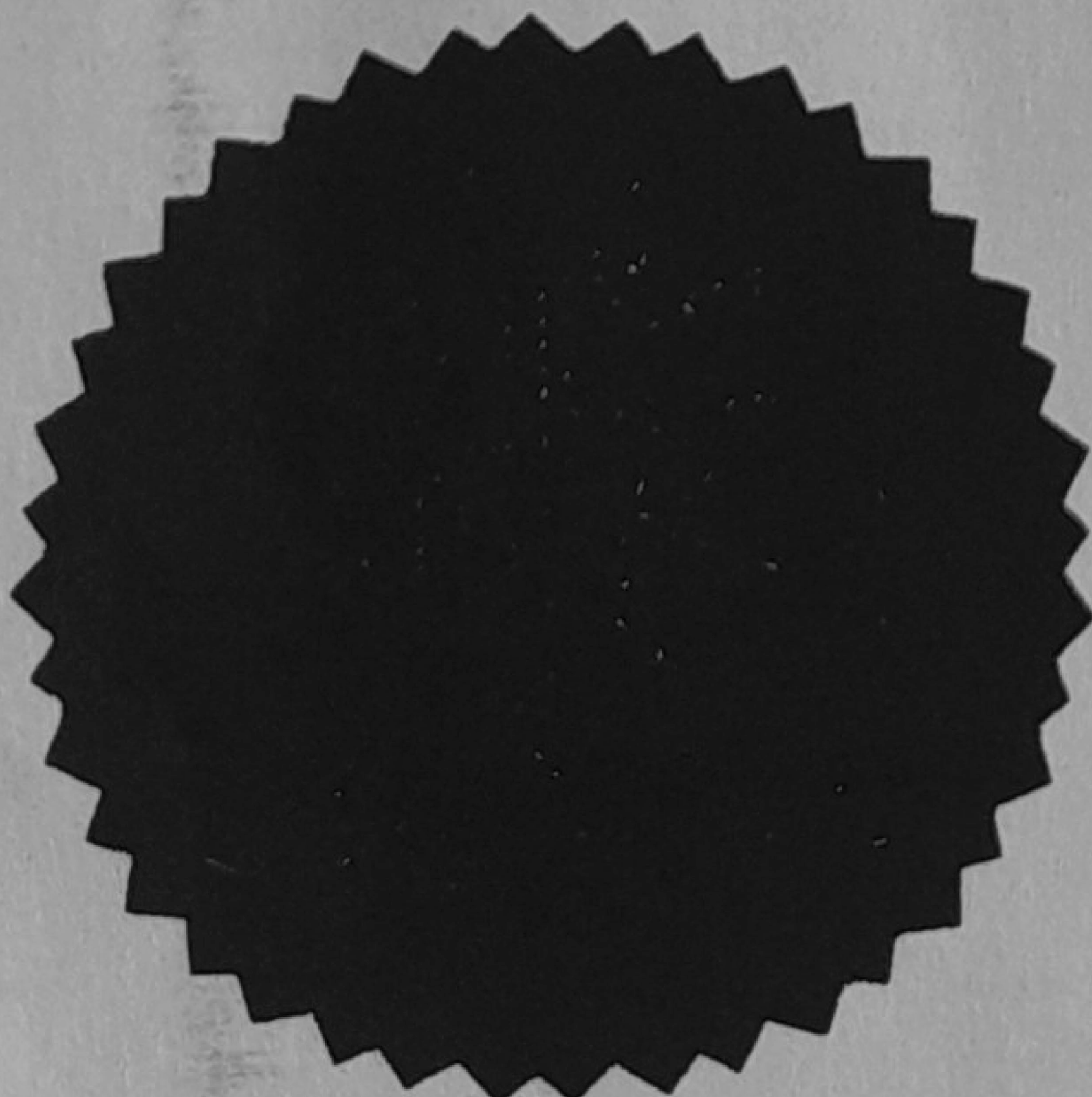


[Signature]
N Poku
Vice - Chancellor

[Signature]

K Cleland
Acting Registrar

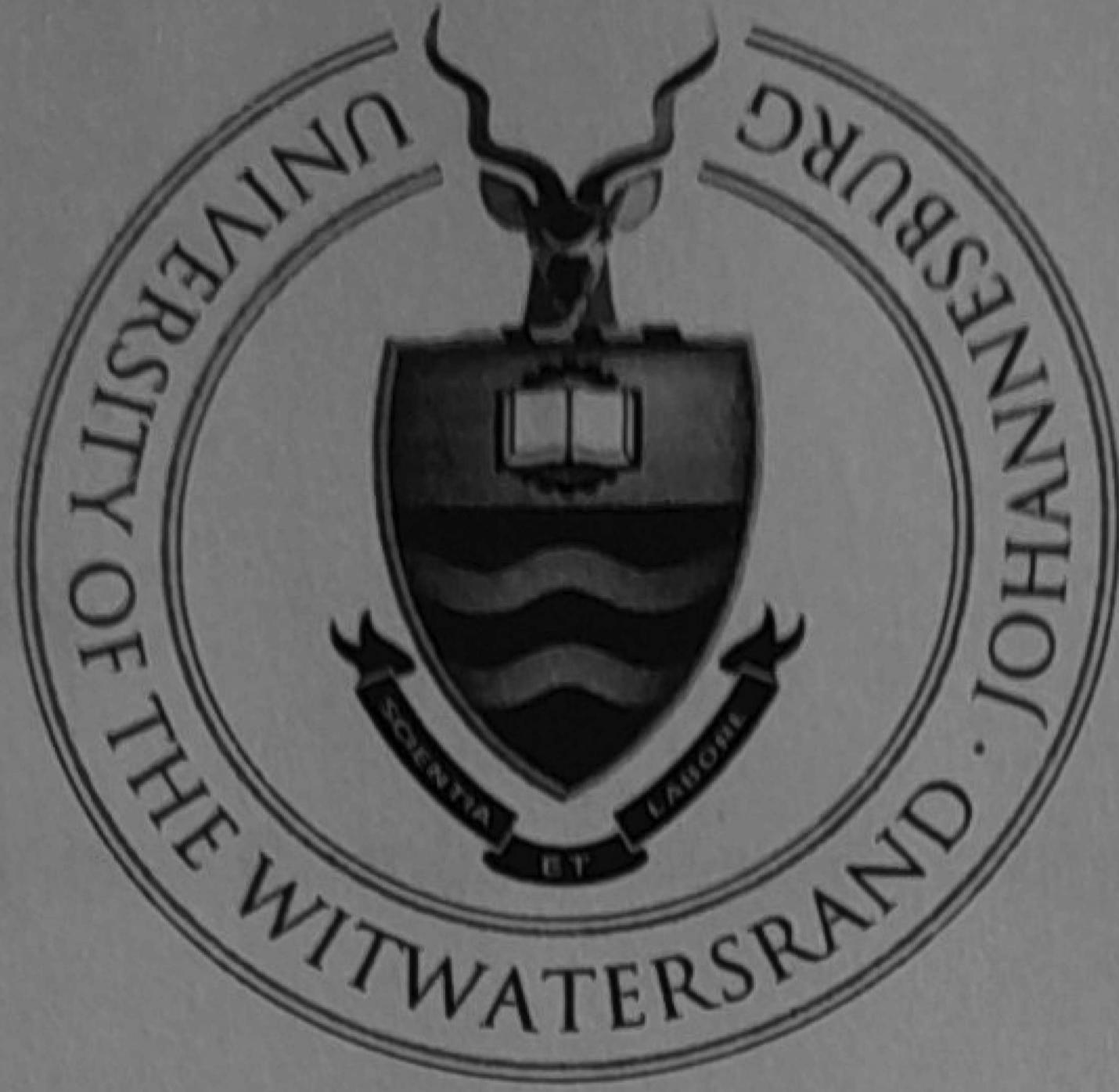
[Signature]
VBA Ojong
Acting Dean



30 October 2020

LIV PROTECTED





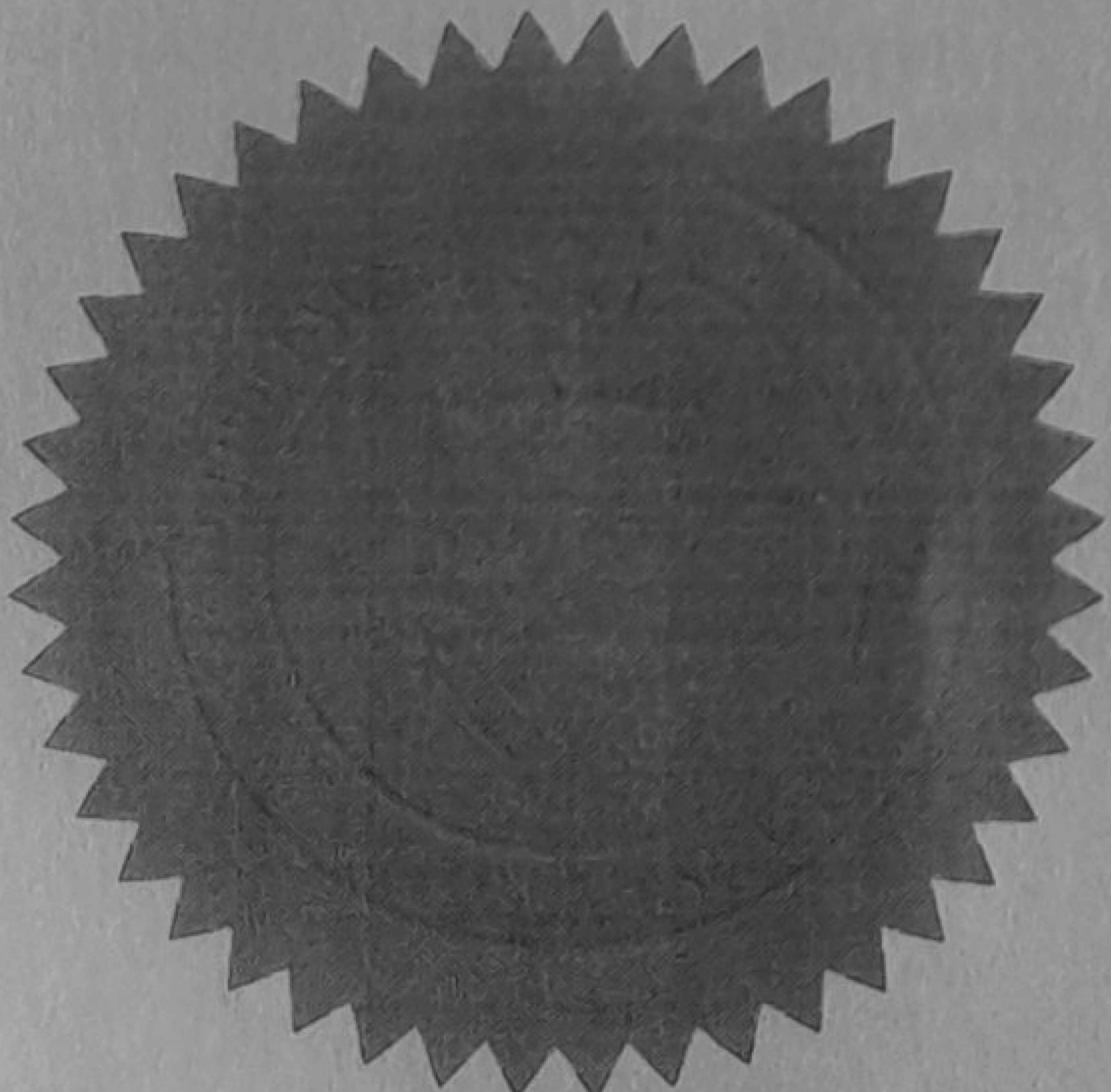
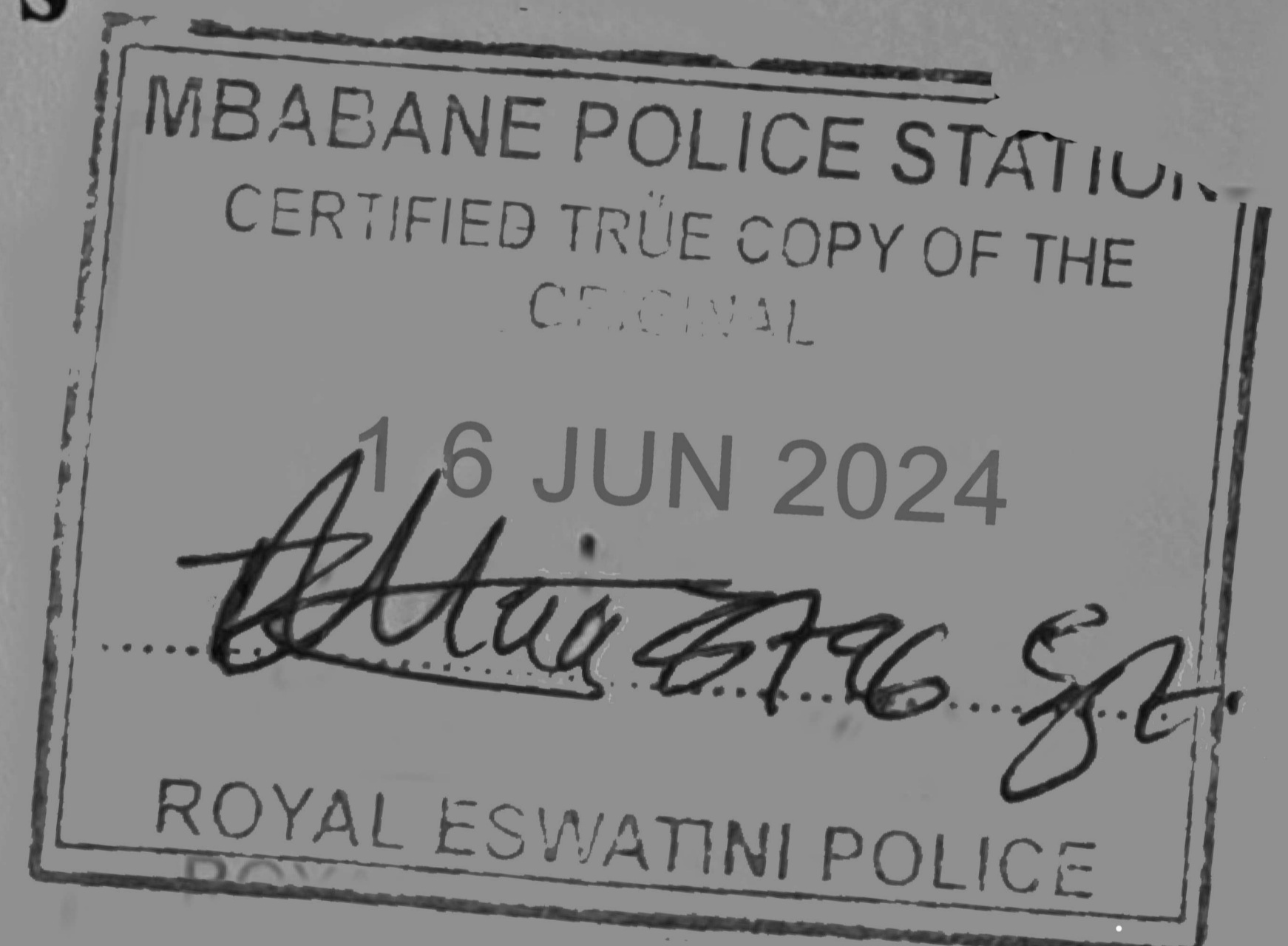
UNIVERSITY OF THE WITWATERSRAND, JOHANNESBURG

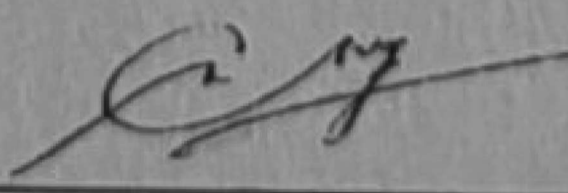
At a congregation of the University
held on 19 April 2022

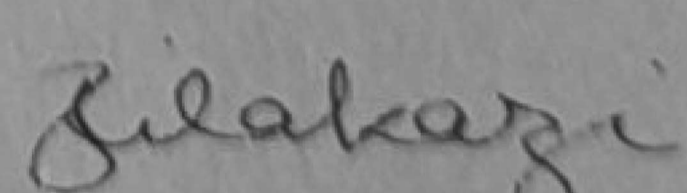
Nolwazi Lomalangeni Dlamini

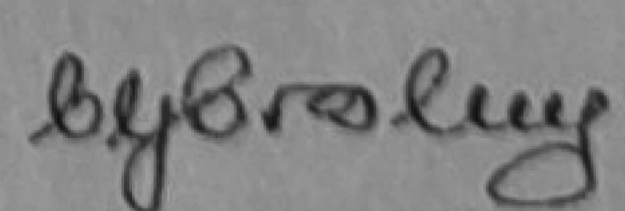
was admitted to the Degree of

Bachelor of Science Honours
(Geography)




Dean: Faculty of Science


Vice-Chancellor and Principal


Registrar



2022N00343

**Environmental Assessment
Practitioners Association
of South Africa**



Registration No. 2022/5249

Herewith certifies that

**Nolwazi Lomalangeni
Dlamini**

is registered as an

**Candidate Environmental Assessment
Practitioner**

***Registered in accordance with the prescribed criteria of Regulation 15. (1)
of the Section 24H Registration Authority Regulations
(Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the
National Environmental Management Act (NEMA), Act No. 107 of 1998, as
amended).***

Effective: 01 March 2024

Expires: 28 February 2025

Chairperson

Registrar



Orlinda Princess Mafika

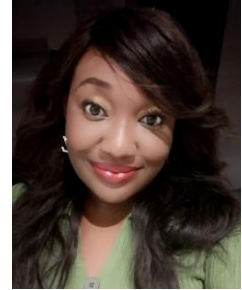
Environmental Consultant

Pr. Nat. Sci. 135654

Address: Office 1, Palm Place Office Park, 22 Bram Fischer Drive, Linden, Johannesburg 2195

Email: orlinda@niara.co.za

Contact No: +27 74 881 9988



EDUCATION AND QUALIFICATIONS

- MSc. (Environmental Management with Waste Management) North West University (current)
- BSc. Hons. (Environmental Science and Management with Geography) North West University (2018)
- BA (Development and Management) North West University (2017)

AFFILIATIONS

- International Association of Impact Assessment South Africa (IAIASA)- NEC Portfolio holder
- Golden Key International Honor Society

YEARS OF EXPERIENCE

- 6 years

KEY COMPETENCIES

- Water Use Licensing
- Air Quality Impact Assessments
- General Authorisations
- GIS Mapping
- Dispersion Modelling
- Environmental Control Officer
- Performance Assessments (Environmental Audits) on mine EMPs

BIOGRAPHY

Orlinda Mafika is a dynamic professional with a wealth of expertise in environmental management and regulatory compliance. With a strong focus on driving business growth and operational efficiency, Orlinda excels in monitoring key performance indicators (KPIs) and implementing targeted improvement initiatives to consistently meet or exceed targets. A strategic thinker, Orlinda is adept at developing and implementing comprehensive strategic plans that propel business growth and optimize operational processes. Her collaborative approach allows her to effectively work with cross-functional teams, streamlining processes, optimizing resources, and enhancing overall productivity.

Orlinda's proactive nature enables her to identify and resolve issues and conflicts, fostering a positive and collaborative work environment. She conducts regular site inspections and compiles compliance audit reports, ensuring adherence to environmental regulations and standards. With expertise in executing and finalizing Water Use License Applications (WULAs), General Authorizations (GAs), and Atmospheric License Applications (AELs), Orlinda plays a crucial role in facilitating major new developments such as industrial plants, mines, feedlots, and farms.

She collaborates with public authorities to improve energy efficiency and introduce recycling schemes, further demonstrating her commitment to sustainability. Orlinda is also skilled in data analysis, conducting analytical modelling to determine environmental compliance for atmospheric conditions and analysing inspection data to assess pollution and contamination levels. Her proficiency extends to the creation of regulatory documents, site layouts, and various types of environmental impact assessments and reports.

With a passion for research and innovation, Orlinda plans, modifies, and executes research techniques and tests, gathering and analysing data to produce insightful reports and

Gauteng Office

Office 1 Palm Place Office Park,
22 Bram Fischer Drive, Linden, Johannesburg, 2195

Mpumalanga Office

22 Lowveld Country Manor, Aurora
Drive, Steiltes, Nelspruit, 1201

KwaZulu Natal Office

59 Beaumont Road,
Bluff, Durban, 4052

Niara Environmental Consultants (Pty) Ltd

Co. Reg. 2012/018290/07

C +27827672786 | F 0865314434

info@niara.co.za | www.niara.co.za

- Compliance Audits on Environmental Authorisations (e.g., ROD's, Water, Air and Waste Licenses)
- Consolidated Compliance Programmes
- Environmental Impact Assessments
- Basic Assessment Reports
- Environmental Authorisation Application reviews
- Waste Management License Applications
- Co-ordinating and conducting Public Involvement processes.
- Public Participation Process and Stakeholder consultation and mediation

COUNTRIES OF WORK EXPERIENCE

- South Africa

LANGUAGES

- English (excellent)
- Afrikaans (intermediate)

presentations. She is dedicated to continuous learning and improvement, staying abreast of industry developments and best practices to deliver exceptional results.

EMPLOYMENT HISTORY

May 2024 – present: Environmental Consultant, Niara Environmental Consultants

March 2023 – March 2024: Environmental Lead and Senior Environmental Consultant, Information Decision Systems, South Africa

January 2021– March 2023: Senior Environmental Consultant, Air Quality Specialist and GIS Technician, Milnex CC Environmental Consultants

January 2019– December 2020: Junior Environmental Consultant and GIS Technician, Milnex CC Environmental Consultants

March 2019 – August 2019: Research Assistant, Department of Environmental Affairs, South Africa

January 2018 – December 2018: Surveyor, North West University and Department of Environmental Affairs, South Africa

January 2016 – December 2018: Supplemental Instruction Facilitator, North West University, South Africa

EXPERIENCE HIGHLIGHTS

The below highlight key recent and relative project experience:

- LandCare EMPr for the construction of groyne and weirs on portion 6 of the farm Allemansfontein 7 in the Western Cape Province, CASIDRA and Western Cape Department of Agriculture: Project Lead; Complier
- Water Use Licence Application for the construction of groyne and weirs on portion 6 of the farm Allemansfontein 7 in the Western Cape Province, CASIDRA and Western Cape Department of Agriculture: Project Lead; Consultant
- Environmental Control Officer for the development of Klipfontein Wellness Center, Johannesburg Development Agency (JDA): Independent Auditor and Reviewer
- Water Use License for the expansion of the N1 in Bloemfontein, SANRAL: Environmental Consultant
- Basic Assessment for the clearance of vegetation for the expansion of cultivation land on site 1342 in Vredendal, Leratong Victim Empowerment Co-operative (Pty) Ltd: Project Manager; Reviewer

Please consult the attached appendix for a comprehensive list detailing the project experiences undertaken.

APPENDIX A: PROJECT EXPERIENCE

Duration	Assignment name / brief description of main deliverables/outputs	Name of client	Role on the assignment
2023	Water Use License Application for the prospecting of alluvial diamonds on the remaining extent of portion 1, portion 2 and portion 3 of the farm Kommandodrif 116, the remaining extent of the farm Doringbult 125, the remaining extent of portion 17 (portion of portion 1), the remaining extent of portion 30 (portion of portion 9) and the remaining extent of portion 32 (portion of portion 9) of the farm Doornbult 123 & the farm Kommandodrif 149, Registration Division HP, near Makwassie, North West Province	Stroomdrift Trust	Project Lead, GIS specialist, consultant and PPP specialist
2022	Water Use License Application for the mining of alluvial diamonds on portion 6, portion 7, portion 8, the remaining extent of portion 9, portion 10 and the remaining extent of the farm Matlabane Stad 299, Registration Division: HO, North West Province	Global Gem (Pty) Ltd	
2022	Water Use License Application for mining of chrome ore and platinum group metals on Portion 6 and Portion 7 of the Farm Nooitgedacht 406, situated near Northam, Limpopo Province	Acacia Resources (Pty) Ltd	
2022	Water Use License Application for the prospecting of alluvial diamonds on portion 9 of the farm Schoonzigt 237, registration division: HO, North West Province	Spring Green Trading 115 (Pty) Ltd	
2022	Water Use License Application for the irrigation of 250ha of maize, wheat, sunflower and 12.5ha of pecan nut trees on the farm Daeraad 1476 and Lake Warden 38 near, Registration division: Hoopstad RD, North West Province	Mahata Mmoho Trust	
2022	Water Use License Application for the abstraction of groundwater for irrigation of 25ha of pecan nuts and 7.5ha of lucerne on the farm Portion 10 of the farm Uitkyk 156, Registration Division HO, in the North West Province	GC Knoetze	
2022	Water Use License Application for prospecting of alluvial diamonds on Portion 1 and the remaining extent of the farm Summerhill 203, Registration division: Herbert, Hay RD, Northern Cape Province	Salt Lake Minerals (Pty) Ltd	
2022	Water Use License Application for mining of alluvial diamonds on portion 1, 2, 3, 4, 5 and the remaining extent of the farm Sanddrift 371, the remaining extent of portion 4 as well as portion 5 and the remaining extent of the farm Magoras 372, and the remaining extent of the farm Lovedale 590, Registration Division: Hay RD, Northern Cape Province	Sandrift Explorations (Pty) Ltd	

Duration	Assignment name / brief description of main deliverables/outputs	Name of client	Role on the assignment
2022	Water Use License Application for prospecting of alluvial diamonds on a certain portion of the remaining extent of the farm Zonderhuis 402, Certain portion of the remaining extent of the farm Onder Plaats 401, Certain portion of the remaining extent of portion 1, certain portion of portion 6, 7 and 9 of the farm Namakwari 656, Registration Division: Gordonia RD, Northern Cape Province	Johan Smit (Morgenson Mining (Pty) Ltd)	
2022	Water Use License Application for the irrigation of Lucerne on the farm Vaalbrug Dolomiet 557, Registration Division Viljoenskroon, Free State Province	Vaalbrug Dolomiet	
2022	Water Use License Application for the Garden Court Kings Beach hotel, Driftsands Drive in Port Elizabeth, Eastern Cape Province	Southern Sun International/ Exprop	
2021	Air Quality Baseline Assessment as part of the EIA process for the mining right on portion 44, portion 45, the remaining extent of portion 46, the remaining extent of portion 266, portion 343, portion 369, portion 370, portion 371 and 372 of the farm Zandfontein 447 and portion 3 of the farm Lekkersukkel Landgoed 454 and the farm Zandfontein 923 near Brits in the North West Province	Thabo-Gaelebale Mineral Resources (Pty) Ltd	
2021	Atmospheric Emissions License Renewal Application for the continuation of brick manufacturing on the farm Biesiebult, near Stella, North West Province	Noordkaap Stenewerke CC	
2021	Air Quality Audit on for clay brick making on portion 333 of the farm Putfontein in Benoni, Gauteng Province	Clyde Brickfields (Pty) Ltd	
2021	General Authorization Application for the mining of Iron Ore and Manganese portion 2 of the farm Kadgame 558, Registration Division Kuruman near Kathu in the Northern Cape Province	Kadgame Mining (Pty) Ltd	
2021	Water Use License Application for prospecting of alluvial diamonds on the farm Kleindoorns 391, the remaining extent of portion 1 of the farm Kleindoorns 192, portion 5 of the farm Kameelkuil 88, the farm Banke 468, the remaining extent and portion 15 of the farm Vaalboschbult 195, portion 9 of the farm Windsor 119, the remaining extent of portion 12 (portion of portion 1) of the farm Rietput 60, portion 12 (portion of portion 1) and portion 18 (portion of portion 8) of the farm Grootlaagte 190, and portion 8 (portion of portion 5) and the remaining extent of portion 11 of the farm Springbok 191, situated near to Schweizer Reneke, North West Province	Kridyn Boerdery (Pty) Ltd	
2021	Water Use License Application for the prospecting of diamonds on the remaining extent of portion 3 the farm Kameelkuil 88, Registration Division HO near Schweizer Reneke in the North West Province	Michael Van Straten	

Duration	Assignment name / brief description of main deliverables/outputs	Name of client	Role on the assignment
2021	Water Use License Application for the irrigation of 100ha of pecan nut trees on portion 23 of the farm Bezuidenhoutskraal 64 and portion 7 of the farm Roodepoort 206, Registration Division: HO, North West Province	Makwassie Spruit Enterprises	
2021	Water Use License renewal application for the mining of alluvial diamonds on the remaining extent of the farm Probeerfontein 292, Registration Division: Hopetown RD, Northern Cape Province	AAA Mining CC	
2021	General Authorization application for the mining of limestone on the farm Wagendrift 100, Registration Division JO, near Mafikeng in the North West Province	Oos Transvaal Kalkverksaffers (OKTV)	
2021	Water Use License for the abstraction of groundwater for breeding of lamb, kids, calves, and pecan nuts on the farm Portion 10 of the farm Uitkyk 156, Registration Division HO, in the North West Province	Wesvaal Delwery Trust	
2021	Water Use License application for the mining of quartzite and sandstone on the remaining extent of portion 2 and 8 of the farm Brandwagt 728, Registration division RD, near Mafikeng in the North West Province	North West Crushers (Pty) Ltd	
2020	Air Quality Baseline Assessment for an EIA application on the remaining extent of portion 3 of the farm Zandheuveld 144, near Kimberley, Northern Cape Province	Kolver Mulke Boerdery	
2020	Atmospheric Emissions License Renewal Application for the continuation of brick manufacturing on the farm Rietfontein 107, near Bloemfontein, Northern Cape Province	Pikka Bricks	
2020	Atmospheric Emissions License Renewal Application for clay brick making on portion 333 of the farm Putfontein in Benoni, Gauteng Province	Clyde Brickfields (Pty) Ltd	
2020	Water Use License application for the mining of diamonds on portion 13, 17, 18, 24 and the remaining extent of portion 2 of the farm Vleeschkraal 142, Registration Division HO near Schweizer Reneke in the North West Province	Paul Pretorius	
2020	Water Use License Application for the mining of diamonds on portion 1, 2, 3 and 4 of the farm Avondster 142, Registration Division HO, near Schweizer Reneke in the North West Province.	Seal A Deal	
2020	Water Use License Application for the prospecting of diamonds on the remaining extent of portion 1, 8, 23 and portions 28 and 44 of the farm Doornhoek 165, Registration Division HO near Schweizer Reneke in the North West Province	Lolacento (Pty) Ltd	
2020	Water Use License Application for the prospecting of diamonds on portion 5 of the farm Van Zoelen's Laagte 158 Registration Division Bloemhof, near Windsorton in the Northern Cape Province	Koedonza Olives (Pty) Ltd	

Duration	Assignment name / brief description of main deliverables/outputs	Name of client	Role on the assignment
2020	Water Use License application for the mining of diamonds on the remaining extent, portion 3, 9 and a portion of portion 10 (previously known and referred to as the remaining extent) of the farm Pienaarsfontein 113, Registration division HO, near Schweizer Reneke in the North West Province	Jodeo Four (Pty) Ltd	
2020	Water Use License application for the prospecting of diamonds on the remaining extent of portion 3 (Anna's Hoop) of the farm Zandheuvél 144, Registration Division Kimberley RD near Kimberley in the Northern Cape Province	Kolver Mulke Boerdery	
2020	Water Use License application for the abstraction of groundwater for breeding pigs on the farm Attie 236, Registration Division Viljoenskroon, Free State Province, near Viljoenskroon	Harmony Piggery	
2020	Renewal Application for the Water Use License Application for the prospecting of diamonds on a on the remaining extent of portion 14 (portion of portion 2) of the farm Bloemheuvél 327, Registration Division HO near Christiana, North West Province	GCT Trust	
2020	Water Use License application for the abstraction of groundwater for the irrigation of pecan nut, maize and lucerne on portion 3 of the farm Klipdrift 462. Registration Division Boshof RD near Boshof in the Free State Province	Felix Y Manalo Foundation	
2020	Water Use License application for the abstraction and storage of groundwater for agricultural activities on the farm Theronshoop 411, Registration Division Hoopstad RD near Hoopstad in the Free State Province	Loomar Boerdery (Pty) Ltd	
2019	Water Use license application for the mining of diamonds on the remaining extent of portion 42 of the farm Doornhoek 165, Registration Division HO, near Schweizer Reneke in the North West Province	Namakwa Diamonds-Northern Node (Pty) Ltd	
2019	Water Use license application for the agricultural activities on portion 3 and 4 of the farm London 112, Registration Division HO near Schweizer Reneke in the North West Province	JRP Vleisverspreiders CC	
2019	Water Use License Application for the prospecting of diamonds on the remaining extent of portion 3 the farm Krompan 85, Registration Division HO near Schweizer Reneke in the North West Province	Japie Van Straten	

Duration	Assignment name / brief description of main deliverables/outputs	Name of client	Role on the assignment
2019	Water Use License Application for the prospecting of diamonds on the remaining extent of portion 2, the remaining extent of portion 1, portion 4, portion 6, portion 9 (portion of portion 2), portion 8 (portion of portion 3), and the remaining extent of portion 3 of the farm Homansvley 110, portion 6 and portion 14 (portion of portion 12) of the farm Vuurfontein 117, portion 12 (portion of portion 10) of the farm Mooilaagte 91 and portion 14 (a portion of portion 11), portion 6, portion 12 (a portion of portion 11) and the remaining extent of the farm Houtvolop 111, Registration Division HO, near Schweizer Reneke, North West Province	PJC Pretorius & Seun Boerdery (Pty) Ltd	
2019	Water Use License Application for the agricultural activities on portion 1, the remaining extent of portion 4 and portion 5 of the farm Pienaarsfontein 113, Registration Division HO near Schweizer Reneke in the North West Province	Alec Pieterse (Agriculture)	
2019	Water Use License Application for the prospecting of diamonds on the remaining extent of portion 1 of the farm Gezicht 265, Registration Division HO near Schweizer Reneke in the North West Province	Coenraad Du Toit	
2019	Water Use License Application for the prospecting of diamonds on portion 9 (portion of portion 1), remaining extent of portion 25 (portion of portion 4) of the farm Diamanddoorns 169, the remaining extent of portion 1, portion 5 of the farm Zitland 171 & portion 12 (portion of portion 7) of the farm Doornhoek 165, Registration Division: HO, North West Province	PRC Boerdery (Pty) Ltd	
2019	Water Use License Application for the abstraction of groundwater for irrigation purposes for pecan nut orchard on portion 14 (a portion of portion 1) of the farm Grootpoort 83, Registration Division HO, North West Province, near Schweizer Reneke	Grootpoort Neute	
2019	Water Use License Application for the prospecting of diamonds on portions 50, 51, 52, 53, 54, 55, 56 and 58 of the farm London 112, Registration Division HO near Schweizer Reneke in the North West Province	Rietput Delwery CC	

BACHELOR OF ARTS

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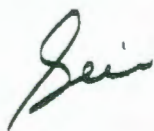
DEVELOPMENT AND MANAGEMENT

awarded to

ORLINDA PRINCESS MAFIKA

after complying with all the requirements

9 May 2018



Prof ND Kgwadi
Vice-Chancellor



Prof M Verhoef
Registrar



BACHELOR OF SCIENCE HONOURS IN ENVIRONMENTAL SCIENCES

with

GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

awarded to

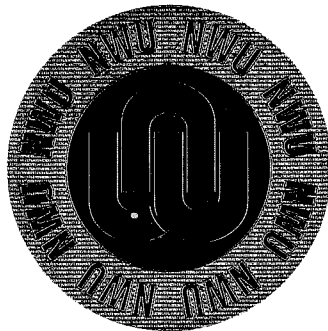
ORLINDA PRINCESS MAFIKA

after complying with all the requirements

26 March 2019



Prof ND Kgwadi
Vice-Chancellor



Prof M Verhoef
Registrar

University Number: 26918676
Serial Number: 744996





herewith certifies that
Orlinda Princess Mafika
Registration Number: 135654
is a registered scientist

in terms of section 20(3) of the Natural Scientific Professions Act, 2003
(Act 27 of 2003)
in the following field(s) of practice (Schedule 1 of the Act)
Environmental Science (Professional Natural Scientist)

Effective **20 April 2023**

Expires **31 March 2025**



Chairperson

Chief Executive Officer





Continuing Professional Development

This certifies that

Orlinda Mafika

Completed

a 2 day in-person Training Course

Integrating Climate Change into EIA

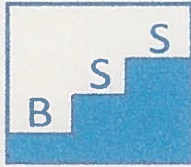
hosted by IAIAsa

at Garden Court ORT on 11 & 12 April 2024

2 Category 1 CPD Points

SACNASP 2024-0447-003031

EAPASA TC-0003-EAP22



Business Success Solutions

CERTIFICATE OF TRAINING

Environmental Legal Compliance, Auditing and Monitoring

Date: 06th – 07th June 2023

Venue: Emperors Palace, Johannesburg

Course Details

Monitoring, auditing and preparing audit checklists.

Understand and interpret environmental legal framework and legislation.

Identifying applicable legislation & preparing your legal register.

Licensing and registrations, duties of care and company, director and employee liabilities.

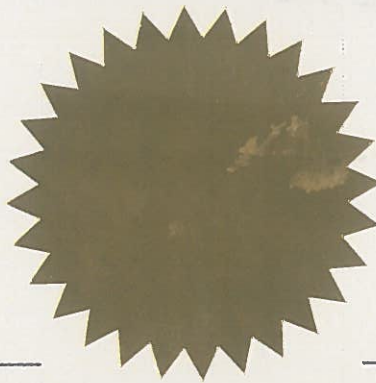
Handling EMI inspections, compliance notices and directives.

This is to certify that

Orlinda Masika

9701050048085

Attended the above course



Mwende

Director (BSS)

Accreditation No: 2021-0021-001881 (2 CPD Points)

Tooley

Janice Tooley

SACNASP
South African Council for Natural Scientific Professions

Accreditation No: TC-0001-EAP22 (2 CPD Points)





National Association for Clean Air

This is to certify that

Orliando Hafika

attended the short course

Introduction to Dispersion Modelling

11-13 JUNE 22 2018

[Signature]
.....
Dr Roelof Burger
Senior Lecturer: NACA

[Signature]
.....
Professor Stuart Piketh
Vice President: NACA

NACA • NATIONAL ASSOCIATION FOR CLEAN AIR

CERTIFICATE