

CURRICULUM VITAE

Ms M BURGER

Name	:	BURGER, MARLI
Date of Birth	:	3 September 1982
Profession/Specialisation	:	Environmental Assessment Practitioner
Nationality	:	South African
Years' experience	:	16 years environmental legal compliance

REGISTRATION

SACNASP Registration: Pr. Sci. Nat. Nature Conservation
EAPASA Registration: Environmental Assessment Practitioner

Reg. no. 115534
Reg. no. 2019/220

KEY QUALIFICATIONS

Marli Burger is a SACNASP¹ and EAPASA² Registered Environmental Consultant with 16 years of environmental legal compliance experience. She has a Master's degree in Science from the University of Johannesburg and specialises in Aquatic Health and Project Management. She has been involved in a variety of different types of Environmental Impact Assessments and Water Use License (WUL) Applications including applications for water supply projects, dams, transmission lines, roads, mining, agricultural activities, residential developments and a constructed wetland in South Africa. Marli has also been involved in the use of Geographic Information Systems, environmental status quo and audit reports, water quality assessments, legal compliance and open space planning. Relevant training includes, amongst others, the Environmental Management Inspector (EMI) training course during her employment at GDARD, the Department of Water and Sanitation (DWS) Instream Use training course and WUL Audit course.

Essential skills as an environmental assessment practitioner firstly includes her experience of translating site-specific conditions and relevant recommendations into a working document that is both scientifically accurate as well as fit for practical implementation by staff with limited training or experience. Secondly, her employment history includes public and private sector spheres where a broad knowledge of the National Environmental Management Act and specific environmental legislations, policies and guideline documents as well as excellent communication skills were vital.

Her knowledge of the environmental authorisation process and challenges in the industry is an asset to her project management skills and helps to align applications with requirements of various state departments and to avoid duplication of efforts, for a more efficient authorisation process. Her project management skills include managing project finances; reporting on departmental assessment and progress; correspondence with clients, specialists and departments; attending project meetings; compiling applications and submission documents, updating requirements for applications based on latest legislation; providing assistance on general environmental and water-related queries; researching latest waste management and water monitoring technology; maintaining and updating website and social media pages, public participation as well as auditing and consulting on implementation of authorisations.

Management of Specialist studies for the EIA and WULA processes have included amongst others, vegetation, fauna, social, geotechnical, heritage assessments, as well as hydrology, hydrogeology, geomorphology, hydrogeology, water quality analyses, aquatic delineation and rehabilitation studies and risk assessments. The findings of the specialist studies are incorporated into the application and presented to the relevant commenting departments and competent authority as required for each application.

Marli has extensive experience in auditing EMP conditions on construction sites while doing weekly or monthly ECO monitoring, including environmental training with contractors and finding ways to mitigate the impacts of

¹ South African Council for Natural Scientific Professions

² Environmental Assessment Practitioners Association of South Africa

development on the environment. She has also conducted several WUL audits, which includes providing practical measures towards full compliance.

EMPLOYMENT RECORD

2017 – Current	AquaStrat Solutions Director Environmental Assessment Practitioner
2014 – Current	Galago Environmental Consultants Environmental Consultant
2013 – 2013	ThandaManzi Water Consultants Project manager & application consultant
2012 – 2012	Centurion Academy Lecturer (full-time): Dept. Nature Management Tshwane University of Technology Lecturer (part-time): Dept. Nature Conservation
2010 – 2011	Self-employed Marketing
2008 – 2010	Gauteng Department of Agriculture and Rural Development Chief Nature Conservator
2007 – 2008	Gauteng Department of Agriculture, Conservation and Environment Senior Nature Conservator
2007 – 2007	Tshwane University of Technology Student Assistant: Dept. Nature Conservation
2006 – 2006	Rietvlei Nature Reserve Experiential training part time
2006 – 2006	South African National Parks Student Research Post – water quality & river profile monitoring
2005 – 2005	Lion Park Part time – adaptive management plan
2005 – 2005	Manyane Game Farm & Mangwa Valley Lodge Part time – adaptive management plans
2004 – 2004	Monate Game Lodge Part time – vegetation monitoring

ENVIRONMENTAL IMPACT ASSESSMENT APPLICATIONS

Pro Crop Farm Dam Upgrades (Pro Crop, 2023 – 2024). Re Portion 1 of Hill Cottage 390, Portion 0 Cyprus 567, Re of Elon 674, Free State Province.

Environmental practitioner. Compiling the EIA Report taking heritage, socio-economic, wetland and vegetation sensitivities into account and conducting the public participation process.

CoE Sewer Pumpstations: Bullfrog, Dalpark and Struisbult pumpstation upgrades (CoE, 2023 – 2024).

Environmental practitioner. Compiling the BA Reports and EMPs, taking socio-economic, storm water and wetland sensitivities into account and conducting the public participation process.

CoE Sewer Pumpstations: Magagula Heights and Olifantsfontein pumpstation upgrades (CoE 2023 – 2024).

Environmental practitioner. Compiling the BA Reports and EMPs, taking socio-economic, storm water and wetland sensitivities into account and conducting the public participation process.

Kenleaf x 35 (Juanfany cc, 2023 – 2024). 196 & 197 Rand Collieries AH, Brakpan, Gauteng).

Environmental practitioner. Compiling the BA Report taking heritage, socio-economic, storm water and wetland sensitivities into account and conducting the public participation process.

Storage on 82 (2023), Portion 214 of the Farm Hartzenbergfontein 335 IQ, Walkerville, Gauteng.

Environmental practitioner. Compiling the BA Report taking heritage, socio-economic, storm water and vegetation sensitivities into account and conducting the public participation process.

St Peter's College Wetland Rehabilitation (St Peter's College, 2022). Woodmead.

Environmental practitioner. Compiling the BA Report taking storm water and wetland sensitivities into account and conducting the public participation process.

Kibler Park Mountain Luge (Mountain Fun Park, 2021). Portion 38 of the Farm Olifantsvlei 327 I.Q.

Environmental practitioner. Compiling the BA Report taking heritage, socio-economic, storm water and wetland sensitivities into account and conducting the public participation process.

Naledi 1 Housing Development (CoJ, 2023) on the Remainder of the Farm Soweto 387 IQ, Gauteng.

Report compiler. Compiling the BA Report taking socio-economic, storm water and wetland sensitivities into account.

Mofolo North Housing Development (CoJ, 2023) on the Remainder of the Farm Soweto 387 IQ, Gauteng.

Report compiler. Compiling the BA Report taking socio-economic, storm water and wetland sensitivities into account.

Dalpark x 18 (City of Ekurhuleni, 2021). Portion 461 of the Farm Witpoortjie 117 IR.

Environmental practitioner. Compiling the Scoping and EIA Reports taking heritage, socio-economic, storm water and wetland sensitivities into account and conducting the public participation process.

Mayfield x 52 (City of Ekurhuleni, 2021). Portions 124 & 132 of the Farm Putfontein 26 IR.

Environmental practitioner. Compiling the BA Report taking heritage, socio-economic, storm water and wetland sensitivities into account and conducting the public participation process.

Grootvlei x 3. (Mpumalanga Province Human Settlements Department, 2021). Portion 24 of the Farm Grootvlei 604 IR. *Environmental practitioner.* Compiling the BA Report taking heritage, socio-economic, storm water and wetland sensitivities into account and conducting the public participation process.

Alpine Heath (Alpine Heath Body Corporate, 2021 - 2024). On the Farm Akkerman 5679 GS, KZN Province.

Environmental practitioner. Compiling the Environmental application reports Reports taking heritage, socio-economic, storm water and wetland sensitivities into account and conducting the public participation process.

Germiston South Pedestrian Bridge (City of Ekurhuleni Human Settlements, 2020) on Portions 861 and 114 of the Farm Elandsfontein 90 IR. *Environmental Assessment Practitioner*, 2019. Conducting public participation and administrating GDARD requirements.

Java Crescent Pedestrian Bridge (Ekurhuleni Metropolitan Municipality, 2019). Portion 443 of the Farm Elandsfontein 108, IQ. *Environmental Assessment Practitioner*. Compiling and submitting the Basic Assessment Report and EMP with hydrological, storm water and wetland rehabilitation considerations.

Albert's Farm Dam upgrade. (Johburg Roads Agency, 2019). Remainder of the Farm Waterval 211 IQ. *Environmental practitioner*. Compiling the BA Report taking heritage, socio-economic, storm water and wetland sensitivities into account and conducting the public participation process.

Jan van Riebeeck Park Dams upgrade. (Johburg Roads Agency, 2019). Portion 53 of the Farm Braamfontein 53 IR. *Environmental practitioner*. Compiling the BA Report taking heritage, socio-economic, storm water and wetland sensitivities into account and conducting the public participation process.

Mackenzie Park x 3 Housing Development (Ekurhuleni Metropolitan Municipality, 2019). Remaining Extent of the Farm Benoni 77 I.R. *Environmental practitioner*. Compiling the EIR and conducting the public participation process taking heritage, socio-economic, storm water, wetland sensitivities & service capacities into account.

New Modder x 6 Light Industrial Development. (New Modder Township Pty Ltd, 2019). Remainder of Portion 1 of the Farm Modderfontein 76 IR. *Environmental practitioner*. Compiling the BA Report and conducting the public participation process taking heritage, socio-economic, storm water and wetland sensitivities, as well as services alternatives into account.

Minnebron x 1 Mixed Use Development (Ekurhuleni Metropolitan Municipality, 2019). Portions 64 – 65, 165 and the remainder of Portion 3 of the farm Witpoortje 117 IR. *Environmental practitioner*. Compiling the EIR and conducting the public participation process taking heritage, socio-economic, storm water, wetland sensitivities and service capacities into account.

Leachville x 2 Residential Development (Ekurhuleni Metropolitan Municipality, 2018). Portion 148 of the Farm Rietfontein 115 IR. *Environmental practitioner*. Compiling the BA Report and conducting the public participation process taking heritage, socio-economic, storm water, wetland sensitivities and land use alternatives into account.

Chartwell Wetland Rehabilitation (Chartwell Conservancy, 2017), Section of an unnamed wetland feeding into the Klein Jukskei River – S30A Emergency Application and Environmental Management Programme (EMPr), 2017. Compiling the application and report and correspondence with GDARD and DWS.

Apex Mixed Use Development (Ekurhuleni Metropolitan Municipality, 2016), Portion 46 of the farm Rietfontein 115-IR, Benoni. *Environmental practitioner*. Compiling the EIR and conducting the public participation process taking heritage, socio-economic, storm water and wetland sensitivities into account.

Holgatfontein Development (Ekurhuleni Metropolitan Municipality, 2014), Portion 102 of the farm Holgatfontein 326-IR, Springs. *Environmental practitioner*. Compiling EIR and public participation with heritage, socio-economic, storm water and wetland considerations.

WATER USE LICENCE APPLICATIONS

Bundu Mine (Bundu Mining Pty Ltd: Gomes Sand Operations, 2023 – 2024), Portion 15 Doornrandjie 386 JR, Gauteng.

Water use authorisation consultant. Compiling the WULA with wetland sensitivity considerations, and conducting public participation.

Daveyton Mall, (Vukile Property Fund, 2024). Benoni, Gauteng.

Water use authorisation consultant. Compiling the WULA with groundwater abstraction and conducting public participation.

East Rand Mall, (Vukile Property Fund, 2023 - 2024). Boksburg, Gauteng.

Water use authorisation consultant. Compiling the WULA with groundwater abstraction and conducting public participation

CoE Sewer Pumpstations: Bullfrog, Dalpark and Struisbult pumpstation upgrades (CoE, 2023 – 2024).

Water use authorisation consultant. Compiling the WULA with wetland sensitivity considerations, and conducting public participation.

CoE Sewer Pumpstations: Magagula Heights and Olifantsfontein pumpstation upgrades (CoE, 2023 – 2024).

Water use authorisation consultant. Compiling the WULA with wetland sensitivity considerations, and conducting public participation.

Kenleaf x 35, (Juanfany cc, 2023 – 2024). 196 & 197 Rand Collieries AH, Brakpan, Gauteng).

Water use authorisation consultant. Compiling the WULA with services, storm water and wetland considerations, and conducting public participation.

Pro Crop Farm Dam Upgrades (Pro Crop, 2023 – 2024). Re Portion 1 of Hill Cottage 390, Portion 0 Cyprus 567, Re of Elon 674, Free State Province.

Water use authorisation consultant. Compiling the WULA with wetland sensitivity considerations and water demand for irrigation, and conducting public participation.

Port Alfred Sewer Pipeline Upgrades, (Ndlambe Municipality, 2023 – 2024). Port Alfred, EC.

Water use authorisation consultant. Compiling the WULA with wetland sensitivity considerations and conducting public participation.

Tshilidzini Hospital Upgrade, (National Department of Health, 2023). Thohoyando, LP.

Water use authorisation consultant. Compiling the WULA with wetland sensitivity considerations, water demand for borehole abstraction, and conducting public participation.

Gillooly's CoE Botanical Gardens, (CoE, 2022 – 2023). Bedfordview, Gauteng.

Water use authorisation consultant, 2022. Registration of the activities under the General Authorisation 509 of 2016.

Dullstroom Waste Water Treatment works, (Emakhazeni Local Municipality), Mpumalanga.

Water use authorisation consultant, 2022. Compiling the WULA for the works and upgrades.

External Environmental Impact Auditor, 2022. Compiling an impact identification report in response to a S28 Directive of the Mpumalanga Department of Agriculture, Rural Development, Land & Environmental Affairs.

CoE Botanical Gardens (City of Ekurhuleni), Gilloolys Farm, Gauteng.

Water use authorisation consultant, 2022. Registration of the activities under the General Authorisation 509 of 2016.

Wilgeheuwel x 72 Residential Development (Ptn 351 Wilgespruit Pty Ltd), Roodepoort, Gauteng.

Water use authorisation consultant, 2022. Compiling the WULA with services, storm water and wetland considerations.

Dallas Taxi Holding Facility on Erf 51, Menlyn x 10, Pretoria, Gauteng.

Water use authorisation consultant, 2022. Registration of the activities under the General Authorisation 509 of 2016.

Bryanston x 4610 Residential development. *Water use authorisation consultant, 2022.* Compiling the WULA with services, storm water and wetland considerations.

Afrisam Verulam IWULA & IWWMP (Afrisam). *Water use authorisation consultant*, 2021. Compiling the IWULA and IWWMP with water uses including groundwater abstraction, impeding a watercourse, altering watercourse characteristics, disposing of waste that could impact the resource, discharging of water containing waste.

Helderwyk Phases 2 - 3 Mixed Use Housing Development (Purple Moss) on Witpoortje 117 IR. *Water use authorisation consultant*, 2021. Compiling the WULA with storm water and wetland considerations.

The Banks (Reflection Time Pty Ltd). Kromdraai, Gauteng. *Water use authorisation consultant*, 2021. Compiling the WULA for groundwater abstraction, stormwater and package plant discharge with ecological considerations.

St Peter's College Wetland Rehabilitation (St Peter's College). Woodmead. *Water use authorisation consultant*, 2021. Registration of the activities under the General Authorisation 509 of 2016 and conducting public participation process.

Kibler Park Mountain Luge (Mountain Fun Park, 2021). Portion 38 of the Farm Olifantsvlei 327 I.Q. *Water use authorisation consultant*, 2021. Registration of the activities under the General Authorisation 509 of 2016 and conducting public participation process.

Alpine Heath (Alpine Heath Body Corporate) IWULA & IWWMP. On the Farm Akkerman 5679 GS, KZN Province. *Water use authorisation consultant*, 2020. Compiling the WULA for surface and groundwater abstraction and oxidation pond system, with ecological considerations.

Entokozweni Water Treatment Works (Emakhazeni Local Municipality) on Portion 34 of the Farm Geluk 348 JT. *Water use authorisation consultant*, 2020. Compiling the WULA, declaration of ELU with ecological considerations.

Moratiwa Crossing, Monsterlus. (Vukile Property Fund). *Water use authorisation consultant*, 2021. Compiling the WULA with groundwater abstraction.

Giyani Plaza, Giyani. (Vukile Property Fund). *Water use authorisation consultant*, 2021. Compiling the WULA with groundwater abstraction.

Nzhelele Valley, Makhado. (Vukile Property Fund). *Water use authorisation consultant*, 2021. Compiling the WULA with groundwater abstraction.

Germiston South Pedestrian Bridge (City of Ekurhuleni, Human Settlements) on Portions 861 and 114 of the Farm Elandsfontein 90 IR. *Water use authorisation consultant*, 2020. Registration of the activities under the General Authorisation 509 of 2016 and conducting public participation process.

Roelan Platinum Mine (Roelan Trading) IWULA and IWWMP. Portion 10 of the Farm Welgevonden 343 KR, Limpopo Province. *Water use authorisation consultant*, 2020. Compiling the WULA with groundwater abstraction, storm water and ecological considerations.

Albert's Farm Dam upgrade. (Johburg Roads Agency, 2019). Remainder of the Farm Waterval 211 IQ. *Water use authorisation consultant*, 2019. Administration of the GA registration with storm water and wetland considerations.

Jan van Riebeeck Park Dams upgrade. (Johburg Roads Agency, 2019). Portion 53 of the Farm Braamfontein 53 IR. *Water use authorisation consultant*, 2019. Administration of the GA registration with storm water and wetland considerations.

Helderwyk x 8 Phase 1 Mixed Use Housing Development (Purple Moss) on on Portion 472 (a Portion of the Remainder of Portion 62) of Witpoortje 117 IR. *Water use authorisation consultant*, 2019. Compiling the

WULA with storm water and wetland considerations.

Elim Hubenyi Mall, Louis Trichardt. (Vukile Property Fund). *Water use authorisation consultant*, 2019. Compiling the WULA with groundwater abstraction, storm water and ecological considerations.

Greengate x 92 Residential Development. (PS Trust). Portions 13, 22 & 32 of the Farm Van Wyks Restant 182 IQ. *Water use authorisation consultant*, 2019. Compiling the WULA with storm water and wetland considerations.

South Germiston Housing Developments. (Kiron Developments Pty Ltd). Portions 25, 504 & 530 of the Farm Driefontein 85, Portion 79 & the Remainder of the Farm Driefontein 87 and Potions 6, 7 & the Remainder of the farm Driefontein 682. *Water use authorisation consultant*, 2019. Compiling the WULA with hydrological, storm water and socio-economic considerations.

Greengate x 86 Business Park and Residential Development. (PVB Rietvallei Pty Ltd). Portions 31 and 176 of the Farm Rietvallei 180, IQ. *Water use authorisation consultant*, 2019. Compiling the WULA with groundwater abstraction, storm water and ecological considerations.

Goudrand x 4 and Bulk Sewer Pipeline. (Dino Properties Pty Ltd). Roodepoort 237-IQ and Vogelstruisfontein 231-IQ. *Water use authorisation consultant*, 2019. Compiling the WULA with storm water and buffer zone considerations.

Brakpan x 13 (Ekurhuleni Housing Department). Part of the Remainder and Portion 13 of the farm Weltevreden 118 IR. *Water use authorisation consultant*, 2019. Compiling the WULA with storm water and services upgrade considerations.

Bartlett x 86 (Juanfany CC). Portion 978 (a portion of portion 240) of the Farm Klipfontein No 83 IR. *Water use authorisation consultant*, 2019. Compiling the WULA with storm water and wetland rehabilitation considerations.

Alfa Sand Mine (Verlesha Pty Ltd / Raumix) IWULA & IWWMP. Remainder of Portions 3 and 5 and Portion 20 of the Farm Rietvlei 518 JR, Gauteng. *Water use authorisation consultant*, 2018. Compiling the WULA with hydrological, groundwater, storm water and wetland rehabilitation considerations.

Java Crescent Pedestrian Bridge (Ekurhuleni Metropolitan Municipality). Portion 443 of the Farm Elandsfontein 108, IQ. *Water use authorisation consultant*, 2018. Compiling the WULA with hydrological, storm water and wetland rehabilitation considerations.

Ambegeto Electrical Line (Murostar Pty Ltd). Portions 103 and 104 of the Farm 400, IP. *Water use authorisation consultant*, 2018. Compiling the application for General Authorisation registration with wetland considerations.

Casalinga Restaurant (Illyria Pty Ltd). Portions 328 and 505 of the Farm Rietfontein 189, IQ. *Water use authorisation consultant*, 2018. Compiling the WUL application for abstraction from a borehole with hydrogeological considerations.

New Modder x 6 Light Industrial Development. Portion 1 of the Farm Modderfontein 76, IR. *Water use authorisation consultant*, 2018. Compiling the WUL application with watercourse and storm water considerations.

Eldoraigne x 81 & 82 Mixed Use Residential Development. Portion 279 of the Farm Zwartkop 356, JR. *Water use authorisation consultant*, 2018. Compiling the WUL application with watercourse and storm water considerations.

Tembisa x 25 Housing Project. Portions of the Remainder and Portions 98, 99, 100, R/101, 102 and 115 of the Farm Olifantsfontein 402, JR. *Water use authorisation consultant*, 2018. Compiling the WUL application with watercourse and storm water considerations.

Palm Ridge x 10 & 12 Storm water attenuation (Greenfield Gardens). Portion 96 of the Farm Rietfontein 153, IR. *Water authorisation consultant.* Compiling the application for General Authorisation registration with stormwater and wetland considerations.

Doornkom Existing Water Use Right Registration (Vrey Konstruksie). Portions of the Farm Doornkom 376 KR. *Water authorisation consultant.* Administration of the EU ownership registration changes.

Apex Bulk Sewerline (Ekurhuleni Metropolitan Municipality), Portions of the farm Rietfontein 115-IR, Benoni - Water use license, 2017. *Water authorisation consultant.* Compiling the WUL application.

K97 road construction (Gauteng Department of Roads and Transport), wetland crossings – WULA, 2017. *Water authorisation consultant.* Compiling the WUL application with hydrological, storm water and wetland rehabilitation considerations.

Kaalspruit Wetland Rehabilitation (Ekurhuleni Metropolitan Municipality), Section of Kaalspruit between R562 and Olifanstfontein WWTW outfall - Water use license, 2017. *Water authorisation consultant.* Compiling the WUL application for the rehabilitation of the Kaalspruit by means of a Free Water Surface constructed wetland. Collating and presenting information on project and design principles that address ecosystem drivers and responses.

Vischgat Adesite Mine (Prime Spot Development Pty Ltd), on Portion 1 (Portion 59) of the Farm Viscgat 467 IR - Water use license, 2017 - submitted. *Water authorisation consultant.* Compiling the WUL application for an aggregate mine. Collating and presenting information on geohydrological findings, legal- and monitoring implications of the abstraction of water from a borehole, discharge of water and removal of underground water for mining.

The Village x 14 Integrated Development (Blue Age Properties 60 (Pty) Ltd), Portions 2, 4, 36, 37, 38, 65 & the Remainder of Portion 55 of the Farm Van Wyk's Restant 182 IQ - Water use license, 2017. *Water authorisation consultant.* Compiling the WUL application for a mixed use residential and business park with retail warehouses, retail centers, office and residential development, hotel and private open space. Presentation of collated information to the Environment and Recreation specialists of DWS for Water Use License Application (WULA) purposes.

Tambo Springs Inland Port (Tambo Springs Development Company) - Water use license of various construction activities, Gauteng, 2017. *Water authorisation consultant.* Compiling the WUL application with hydrological, storm water and wetland rehabilitation considerations.

Springs Mall (Flanagan & Gerard) – Water use license, Gauteng, 2017. *Water authorisation consultant.* Compiling the WUL application with geohydrological, storm water and wetland rehabilitation considerations.

Spookmill mine (Da-Xa Sand CC), on the farm Spookmill No. 4273, KZN – Water use license, Gauteng, 2017. *Water authorisation consultant.* Compiling the WUL application for a sand mine with considerations of fluvial geomorphology and Instream Flow Requirements. Interpretation of water quality-, flow determination-, biota (SASS5 and FRAI, IHAS) findings and data.

Homes Haven Residential Development, (Paxograph Pty Ltd), on Portion 320 (a portion of portion 76) of the Farm Roodekrans 183 IQ - Water use license, 2017. *Water authorisation consultant.* Compiling the WUL application for a housing development. Provided consultation to the project engineers on storm water design principles.

Daveyton Housing Development (Ekurhuleni Metropolitan Municipality), the Remainder of the Farm Daveyton 73 IR and portion 266 of the Farm Putfontein 26 IR - Water use license, 2017. *Water authorisation consultant.* Compiling the WUL application for a housing development with various densities and storm water discharge into pans on site. Presentation of collated information to the Environment and Recreation specialists of DWS for Water Use License Application (WULA) purposes.

Apex Mixed Use Development (Ekurhuleni Metropolitan Municipality), Portion 46 of the farm Rietfontein 115-IR, Benoni - Water use license, 2017. *Water authorisation consultant.* Compiling the WUL application for a housing development with school, business stands, community facilities, public open space. Presentation of collated information to the Environment and Recreation specialists of DWS for Water Use License Application (WULA) purposes.

Elandsfontein Mixed Use Development (Crimson King Properties Pty Ltd), Portion 1 & 7 of the Farm Elandsfontein 346 IQ, Westonaria – Water use license, 2016. *Water authorisation consultant.* Compiling the WUL application for a housing development with school and commercial stands. Presentation of collated information to the Environment and Recreation specialists of DWS for Water Use License Application (WULA) purposes.

President Park Residential Development (JFS Properties No 20 Pty Ltd), Holdings 78 – 80 and the Remainder of Holding 81 of President Park A.H, Gauteng - Water use license, 2016. *Water authorisation consultant.* Compiling the WUL application for a residential development. Presentation of collated information to the Environment and Recreation specialists of DWS for Water Use License Application (WULA) purposes.

Priontex Borehole Abstraction (Priontex Microclean Gauteng (Pty) Ltd), Corporate Park North, 313 Roan Crescent, Erf 493, Randjiesfontein Ext 121, Gauteng - Water use license, 2016. *Water authorisation consultant.* Compiling the WUL application for abstraction from a borehole.

Daxa Sand (Da-Xa Sand CC) Buffelsriver, Remainder of Portion 19 of the Farm Reserve No. 18 No. 15838, KZN – Water use license, Gauteng, 2015. *Water authorisation consultant.* Compiling the WUL application for a sand mine with considerations of fluvial geomorphology and Instream Flow Requirements. Interpretation of water quality-, flow determination-, biota (SASS5 and FRAI, IHAS) findings and data.

Westdene dam (Johannesburg City Parks), Portion 33 of the farm Braamfontein 53 IR, Westdene - Water use license, Gauteng, 2015. *Water authorisation consultant.* Compiling the WUL application for the upgrading of ecological, recreational and functional aspects of the dam. Assisted with SASS5, water quality sampling, depth profiling, secchi disk (turbidity) measurements and layout planning.

Vogelstruisfontein Sand Mine (Lengeo (Pty) Ltd), on Portion 1 and a portion of portion 6 of the farm Vogelstruisfontein 263 IQ, Randfontein Local Municipality, - Water use license, Gauteng, 2015. *Water authorisation consultant.* Compiling the WUL application for a sand mine. Collating information on wetland delineation and –condition, geohydrological findings, legal- and monitoring implications of the abstraction of water from a borehole.

Paardeplaats / Curro School (Curro Holdings), on portion 402 of the farm Paardeplaats 177 IQ, Krugersdorp - Water use license, Gauteng, 2015. *Water authorisation consultant.* Compiling the WUL application for a school with sports fields. Presentation of collated information to the Environment and Recreation specialists of DWS for Water Use License Application (WULA) purposes.

Ngagane Railway Siding (Osho SA Steel), on portions 3 & 5 of the farm MacAlman 4254 HS, Newcastle - Water use license, Gauteng, 2015. *Water authorisation consultant.* Compiling the WUL application for the upgrading of an existing coal siding from specialist studies including wetland delineation- and storm water management reports. Monthly water quality data provided to DWS.

Kendal Power Station (Eskom), on the farm Schoongezicht 218 IR, Kendal - Water use license audit report, Gauteng, 2014. *Water authorisation consultant.* Compiling the audit report of the existing river diversion as per license condition by collating historical data and the latest findings on functionality of the system.

Holgatfontein Development (Ekurhuleni Metropolitan Municipality), Portion 102 of the farm Holgatfontein 326-IR, Springs – Water use license, Gauteng, 2015. *Water authorisation consultant.* Compiling the WUL application for a housing development. Provided consultation to the project engineers on storm water design principles.

Glenway Cable (Space Development), Portions 2, 9, 15, 16 and 17 of the farm Nooitgedacht 333-JR and portion 69 and the Remainder of the farm Franspoort 332-JR, Mamelodi - Water use license, Gauteng, 2015. *Water authorisation consultant.* Compiling the WUL application for an electric cable installation beneath a watercourse. Provided consultation to engineers on the principles of maintaining ecological integrity in the riparian- and buffer zones, as well as within the 1:100 year flood line, with the inclusion of method statements. Presentation of collated information to the Environment and Recreation specialists of DWS for WULA purposes.

Driefontein/Vrysig X10 Residential Development (Driefontein Development Company), Portion 56 of the farm Driefontein 179 IQ, Muldersdrift – Water use license, Gauteng, 2015. *Water authorisation consultant.* Compiling the WUL application for a residential development. Provided consultation to engineer on the principles of sustainable storm water design and consulted applicant on landowner permission for storm water disposal. Presentation of collated information to the Environment and Recreation- and Civil Design specialists of DWS for WULA purposes.

Linmed Hospital (Netcare Property Holdings (Pty) Ltd), Erf 2553 Rynfield Ext 27, Benoni – Water use license, Gauteng, 2013. *Water authorisation consultant.*

Compiled the WULA for the expansion of the parking area and rehabilitation of the wetland of the Netcare Linmed Hospital in Benoni by interpreting specialist findings of the wetland delineation- and rehabilitation reports. Provided consultation to the engineer and applicant on the principles of Sustainable urban Drainage Systems. Presentation of collated information to the Environment and Recreation specialists of DWS. **Erand Gardens Development (Reeflods Property Development Pty Ltd), Portions 735, 764 and 765 of the farm Rantjesfontein 405-JR, Midrand – Water use license, Gauteng, 2013. *Water authorisation consultant.*** Compiling the WUL application for a residential development and consulting with applicant and engineer on DWS requirements for storm water disposal and -designs. Presentation of collated information to the Environment and Recreation- and Civil Design specialists of DWS for WULA purposes.

Vulcania Cemetery (Memorial Park Management Services), remaining extent of farm Vulcania 279-IR, Springs – Water use license, Gauteng, 2014. *Water authorisation consultant.* Compiling the WUL application for a private cemetery. Environmental Control Officer for the duration of the construction phase for the protection of the adjacent wetland. Presentation of collated information to the Environment and Recreation specialists of DWS.

ABI bottling plant (Coca-cola), Hercules - Water use license. Gauteng, 2013. *Water use consultant.* Conducting the Public Participation process and Water Use License Application for new borehole abstraction to replace current municipal source.

Byl's Bridge Office park (M & T Development), Centurion –. Water use license. Gauteng, 2013. *Water use consultant.* Conducting cooperative governance meetings with DWA, CoT and applicant in order to resolve Public Participation issues affecting the progress of WULA.

Grobblersdal Regional shopping center - Water use license. Gauteng, 2013. *Water use consultant.* Conducting the WULA for a road crossing and decommissioning of existing irrigation dam for construction of the proposed Groblersdal Regional shopping center.

Coca-cola bottling plant (Coca-cola), Lagerspoort – Water use license amendment. Gauteng, 2013. *Water use consultant.* Conducting the amendment WULA for the abstraction from new boreholes.

Eco Park Attenuation Dam (M & T Development) – Water use license amendment. Gauteng 2013. *Water use consultant.* Conducting the amendment to the existing license for lowering existing dam wall.

K220 road (M & T Development) - Water use license amendment. Gauteng, 2013. *Water use consultant.* Conducting the amendment WULA for the proposed new K220 road connecting to the R21.

Kameeldrift Feedlot and Abattoir, Cullinan - Water use license amendment. Gauteng, 2013/4. *Water use consultant.* Conducting the WULA and responding to public participation issues for the abstraction and

storage of water, irrigation with and discharge of waste water and abattoir effluent treatment.

Land Parcel 8 commercial development (Atterbury Properties), Midrand - Water use license. Gauteng, 2013. Water use consultant. Conducting the WULA for the construction of an Eskom substation, distribution warehouse park and associated dual carriageway to cross an area of wetland.

Land Parcel 21 commercial development (Atterbury Properties), Buccleugh, Midrand - Water use license. Gauteng, 2013. Water use consultant. Conducting the WULA for the construction of Cell C customer care service centre and associated widening of the K101 culverts.

Land Parcel 3 commercial development (Atterbury Properties), Midrand - Water use license. Gauteng, 2014. Water use consultant. Conducting the public participation process and WULA for the construction of a distribution warehouse park.

Mleki's Beef Feedlot (Department of Rural Development), Cullinan - Water use license. Gauteng, 2013. Water use consultant. Conducting the WULA for the abstraction and storage of water, irrigation with and discharge of waste water.

Newcastle Filling Station (Sasol), Newcastle - Water use license. Gauteng, 2013/4. Water use consultant. Conducting the WULA for construction of a Sasol petrol station within 1:100 year floodline.

Rietvlei Farm Village mixed residential development, Pretoria - Water use license. Gauteng, 2013/4. Water use consultant. Conducting the WULA for a large residential development with school, sports facilities, horse stables, small agricultural activities and own sewerage treatment plant.

Secunda mixed commercial/business development, Secunda - Water use license. Gauteng, 2013/4. Water use consultant. Conducting the WULA for a mixed use development in Secunda CBD for an access road crossing a stormwater channel and development within 1:100 year floodline.

Six Fountains mixed commercial/residential development (Uniqon Wonings), Hazeldean, Pretoria - Water use license. Gauteng, 2013/4. Water use consultant. Conducting the WULA for a large residential and business development within 500m from a wetland with a wetland road crossing.

Teak Place mixed commercial/residential development, Cradle of Humankind - Water use license. Gauteng, 2013/4. Water use consultant. Conducting the WULA for an environmentally friendly residential and business development with wetland road crossings and own sewerage treatment plants.

Lion Park, Lanseria. Gauteng 2006. Resource consultant. Adaptive Management Plan for tourism park reserve with specific focus on alien vegetation and fire regime.

Manyane Game Farm, Dinokeng. Gauteng 2005. Resource consultant. Adaptive Management Plan for private game farm with focus on stocking rates for hunting purposes.

Mangwa Valley Game Lodge, Dinokeng. Gauteng 2005. Resource consultant. Adaptive Management Plan for private game lodge with focus on stocking rates for tourism purposes.

Monate Game Lodge, Nylstroom, Limpopo 2004. Resource consultant. Annual vegetation monitoring to update proposed stocking densities for tourism and hunting purposes.

ENVIRONMENTAL CONTROL OFFICER (ECO)

Storage on 82 ECO, 2023. Conducting monthly site inspections and compiling audit report evaluating compliance with the EA and EMP.

Brakpan x 13 ECO, 2022. Conducting monthly surface water quality monitoring, annual habitat assessments

and external audits according to the Water Use License.

Entokozweni Water Treatment Works WUL ECO, 2021. Conducting weekly in situ surface water quality monitoring for the rising main pipeline installation according to GA conditions.

Bartlett x 86 WUL ECO and Water Quality 2020 – 2022. Conducting monthly surface water quality monitoring, annual habitat assessments and audits according to the Water Use License.

Springs Shopping Mall – WUL ECO and Water Quality, 2019 - present. Conducting monthly surface water quality monitoring, monthly borehole level measurement, groundwater quality monitoring, annual habitat assessments and audits according to the Water Use License.

Java Crescent Pedestrian Bridge construction – ECO and Water Quality, 2019. Conducting weekly water quality monitoring, annual habitat assessments and audits according to the General Authorisation, weekly ECO audits as per Environmental Authorisation.

Netcare Milpark Hospital expansion – ECO, 2017 – 2020. Conducting monthly environmental audits of construction activities on site and compilation of a monthly audit report for Netcare.

Celtisdal X65 and X66 residential development – ECO, 2014 - present. Conducting bimonthly environmental audits of construction activities on site and compilation of a monthly audit report for Central Developments. Conducting quarterly water quality sampling for x 65 and bi-weekly for x 66 and compiling reports.

Vulcania Cemetery - ECO, 2015. Conducting bimonthly environmental audits of construction activities on site and compilation of a monthly audit report for the Memorial Park Services, Gauteng.

Boardwalk x 18 residential development – ECO, 2014 - 2016. Conducting bimonthly environmental audits of construction activities on site and compilation of a monthly audit report for Central Developments.

Proclamation hill Sasol Filling station – ECO, 2015. Conducting bimonthly environmental audits of construction activities on site and compilation of a monthly audit report for Mr Fahim Moosa.

Heuweloord residential development – ECO, 2014-2015. Conducting bimonthly environmental audits of construction activities on site and compilation of a monthly audit report for Central Developments.

Equestria X250 retirement village development – ECO, 2014 - 2015. Conducting monthly environmental audits of construction activities on site and compilation of a monthly audit report for Central Developments.

Olivedale Retirement village – ECO, 2013-2015. Conducting weekly environmental audits of construction activities on site and compilation of a monthly audit report for Central Development.

WATER USE LICENCE AUDITS

- **Kelvin Power Station (Kelvin Power), Zuurfontein 33 IR, Kempton Park, Gauteng. Annual External WUL Audit 2022.**
- **PFG Glass Springs (PFG Springs), New Era Erf 325 IR, Springs. Annual External WUL Audits 2021 - 2023.**
- **Bundu Sand Mine (Gomes Sand, Mnandi), Portion 15 Doornrandjie 386 JR. Annual External WUL Audit 2021 - 2023.**
Auditor for Bundu Mine for the DWS Audit 2022.
- **Sky Sands Mine (Sky Sands, Vereeniging), Portion 7 of Panfontein 467 IR. Annual External WUL Audit 2021 - 2023.**

Auditor for Sky Sands Mine for the DWS Audit 2022.

- **Modder East Gold One Mine (New Kleinfontein Gold Mine)**, Remaining extent of the Farm Cloverfield 75 IR, Springs. **Annual External WUL Audits 2019 - 2023.**
- **Donkerhoek Quarry (Raumix)**, Portions of the farm Donkerhoek 365 JR, Pretoria. **Annual External WUL Audit 2019.**
- **Springs Mall**, Portions 97 & 170 of the Farm Daggafontein 125 IR, Springs, Gauteng. **Bi-annual External WUL Audits 2019 – 2021; Annual External WUL Audit 2022 - 2023.**
- **Bartlett x 86**, Portion 978 (a portion of portion 240) of the Farm Klipfontein No 83 IR. **Annual External WUL Audits 2020 - 2022.**
- **Linmed Hospital WUL (Netcare Property Holdings (Pty) Ltd)**, Erf 2553 Rynfield Ext 27, Benoni. **Annual External WUL Audit 2018.**
- **University of Johannesburg, Doornfontein Campus, Auckland Park.** **Annual External WUL Audit 2018.**
- **Priontex Borehole WUL (Priontex Microclean Pty Ltd)**, Randjiesfontein. **Annual External WUL Audits 2018, 2020 - 2023.**
- **Vogelstruisfontein Sand Mine (Lengeo (Pty) Ltd)**, Randfontein. **Annual External WUL Audits 2019 - 2023.**

Auditor for Vogelstruisfontein Mine for the DWS Audit 2022.

- **Celtisdal X65 and X66 residential development, Rooihuiskraal.** **External WUL audit 2018, 2024.**

WUL IMPLEMENTATION – UPDATING OF IWWMP & RSIP

Bundu Mine IWWMP (Bundu Mining). *Water use administration consultant, 2024.* Updating of IWWMP.

Afrisam Verulam IWWMP (Afrisam). *Water use administration consultant, 2022.* Updating of IWWMP.

Afrisam Rooikraal IWWMP, RSIP & WUL Amendment (Afrisam). *Water use administration consultant, 2022.* Updating of IWWMP and RSIP; amendment of specific license conditions to align administrative requirements with the site activities.

Afrisam Rheeboek IWWMP, RSIP & WUL Amendment (Afrisam). *Water use administration consultant, 2022.* Updating of IWWMP and RSIP with water uses including disposing of waste that could impact the resource. Amendment of specific license conditions to align administrative requirements with the low impact on receiving resources.

Afrisam Jukskei IWWMP & RSIP (Afrisam). *Water use administration consultant, 2022.* Updating of IWWMP and RSIP with water uses surface water abstraction, impeding a watercourse, altering watercourse characteristics, disposing of waste that could impact the resource, discharging of water containing waste.

Afrimat Dundee, Hluhluwe, Ulundi & Vryheid GN 704 motivations. *Water use administration consultant, 2022.* Compiling the GN 704 (1999, in terms of the NWA, Act 36 of 1998) motivations for exemption from specific requirements relating to this regulation.

MeatMasters Abattoir (MeatMasters) IWWMP, *Water use administration consultant, 2017.* Portion 19 of Farm Dagbreek 786, Vryheid, Kwazulu-Natal.

SPECIALIST REPORTS

Ridge Assessment for the development of CoE Botanical Gardens, for City of Ekurhuleni Municipality, 2021.
BURGER, MARLI

Ridge Assessment for the S24G application for Lenasia x 29 on Portion 113 of the Farm Roodepoort 302, IQ, 2020.

Ridge Assessment for the Residential Development on Portion 443 of Rietvallei 180, IQ, Muldersdrift, 2018, 2019.

Ridge Ecology Assessment for the **Lanseria Open Space Plan**, for City of Johannesburg Municipality, 2019.

Constructed Wetland Plant Species Plan for Ekurhuleni Metropolitan Municipality, Kaalspruit, 2017.

Ridge Assessment for the Residential Development on Portion 16 of the farm Kraalkop 147 IQ, Fochville, 2017.

Ridge Assessment for the Trade Route 88 kV Power Line and Switching Station, 2016.

Ridge Assessment for the Discharge pipeline to the mine on the Remainder of the farm Louwsbaken 476-JR, 2016.

Ridge Assessment for the Refilwe WWTW on portions of the farm Doornkraal 420-JR, Kafferskraal 475-JR and Louwsbaken 476-JR, 2016.

Ridge Assessment for the Aloe Ridge Caravan Park on Portion 68 of the farm Leeuwkloof 285-JR, 2016.

PROTECTED TREE PERMIT APPLICATIONS

Mamaila Shopping Centre protected tree permit, 2019.

Mahwelereng Shopping Centre protected tree permit, 2020.

Maroeloesfontein Andalusite Mine protected tree permit, 2023

EDUCATION

2015 – 2017	University of Johannesburg MSc Aquatic Health <i>Cum Laude</i>
2007 – 2008	Tshwane University of Technology Baccalaureus Technologiae Nature Conservation <i>Cum Laude</i>
2004 – 2006	Tshwane University of Technology National Diploma Nature Conservation <i>Cum Laude</i>

AFFILIATIONS

International Association of Impact Assessment South Africa member (IAIAsa)
Wetland Society of South Africa member (SAWS)
Water Institute of South Africa member (WISA)
Klipriviersberg Sustainability Association member (KlipSA)

ARTICLES

Peer review publication accepted by Springer Environmental Monitoring and Assessment.

- Burger, M, J.H.J van Vuren, L. de Wet and A. Nel. **A Comparison of Water Quality and Macro-**

invertebrate Community Structure in Endorheic Depression Wetlands and a Salt Pan in the Gauteng Province, South Africa. *Department of Zoology, University of Johannesburg, Auckland Park, South Africa.*

Agricultural lifestyle journal – information provided on which the following articles were based:

- Bronberger, Nov 2016, Aan wie behoort die water?
- Bronberger, Mar 2017, Besproeiing kan jou in die tronk laat beland.

COURSES

2022	Surface Water Management in Mining (Ilanda Water Services & Water Business Academy (Pty) Ltd)
2018	Hydropedology and wetland functioning (Terrasoil & Water Business Academy)
2018	Water Use License Auditing DWS training (Department of Water & Sanitation)
2014	Instream Use DWS training (Department of Water & Sanitation)
2012	Conservation Medicine course (National Research Foundation)
2009	Peace officer training (GDARD)
2008	Compliance and Control training course (GDARD)
2007	Environmental Management Inspectorate (EMI) training course (University of Pretoria & Department of Environmental Affairs)
2001	Writing, editing, design seminar (Rhodes University)
1999	Basic Photography Course
