



CURRICULUM VITAE

Morné van Wyk
Director & Geohydrologist
MVW Geohydrologists

Profile

Dedicated and innovative Geohydrologist with a passion for understanding the complex relationships between groundwater, geology, and the environment, driving informed decision-making and sustainable resource management.

Personal Information

Identity Number:	891209 5025 08 4
Date of Birth:	1989-12-09
Gender:	Male
Nationality:	South African
Vehicle License:	Code B
Languages:	Afrikaans & English

Contact Me

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Location:	Bloemfontein



Education

Institution	Degree(s) or Diploma(s) obtained
University of the Free State 2008 - 2012	B.Sc. Honors Geology
University of the Free State 2014 - 2017	M.Sc. Hydrogeology

Employment History

MVW Geohydrologists	Director & Geohydrologist	2024 - Current
Environmental Management Group	Principle Hydrogeologist	2020 - 2024
Turn 180 Environmental Consultants	Principle Hydrogeologist	15/08/2018 – 15/12/2019
GCS Water and Environmental Consultants	01/09/2013 – 30/05/2014	01/09/2013 – 30/05/2014

Skills & Responsibilities

Management:

- *Director of MVW Geohydrologist*
- *On-site coordination between clients and contractors*
- *Post project management and aftercare services*
- *Full Geohydrological Project Management*
- *Structured Geohydrologic Services based on project requirements*

Geohydrological:

- *Pre-Project Consultation and Planning*
- *Collection and Interpretation of all Geohydrological Data including Surface*
- *Environmental orientated Geohydrological Reports*
- *Small to Large Scale Wellfield Developments (Private and Government)*
- *Water Management and Utilisation Reports*
- *Geohydrological Impact Assessments*
- *Utilization of all specialised Water Modelling Programs*
- *FC Method, MODFLOW, HECRAS, WISH, GIS Programs etc.*



Field Skills include but are not limited to:

- Hydro-Census
- Geophysics and Borehole Siting
- Drilling and Pump Test Supervision
- Water Sampling and Analysis
- Water Monitoring

Environmental:

- Environmental Consulting (Water, Mining and Environmental)
- Applications for Basic Assessments (BAR's) and Environmental Impact Assessment (EIA's) reports (From Conception to End of Line)
- Applications for Mining Rights and Mining Permits and additionally including (From Conception to End of Line):
- Financial Provision for Rehabilitation Reports
- Applications for Water Use Licenses (From Conception to End of Line)
- Environmental Compliance Monitoring (From Conception to End of Line)
- Monthly, Quarterly and Yearly Monitoring for all Mining-, Environmental -and Water Use License conditions.

Work Experience (Specialist Hydrogeological Assessments)

<u>DATE</u>	<u>CLIENT</u>	<u>PROJECT</u>	<u>PROJECT SCOPE</u>
2013	Private	Borehole Relocation	Siting of new borehole & Relocating installation equipment to new borehole site.
2013	Shell	Establishing a new filling station	A full hydrogeological study including a hydro census and a 10 hour pump test.
2013 - 2014	Sasol	Hydro Carbon Monitoring	Monitoring of Sasol filling stations around South Africa for Hydro Carbon Pollution including data collection and water sampling and analysis.
2014	Kangra Coal	Decommissioning boreholes	Identifying of all decanting/artesian boreholes and the use of chemical clay to fill boreholes
2014	Unknown Mining Client	Hydrogeological study for plant construction	Planning a drilling project to identify deep water tables for optimum plant location and identifying aquifer characteristics through hydro census and pump test
2014	Gautrain Development	Private School Pump Test	Full hydrogeological investigation including hydro census, 12 hour pump tests, borehole observation and down-the-hole camera work.
2018	Jagersfontein Developments	Water Management and Water Balance Calculations	Recommendations on water use from surface and groundwater resources as well as water balance calculations during production.
2018 - 2019	Rooipoort Developments	Water Monitoring and Sample Collection	Quarterly water quality sample collection and analysis



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2018-2019	Jagersfontein Developments	Water Monitoring and Sample Collection	Quarterly water quality sample collection and analysis
2019	Jagersfontein Developments	Hydrogeological Assessment	Full hydrogeological report including impact assessments, drilling supervision, pump tests, observation boreholes, water sampling, plume delineation, 3D Modelling and yield estimations for active dewatering.
2019	Basfour	Kilmorey Agriculture	Pre-production hydrogeological investigation
2019	Jenn Training College	College Construction	Borehole data analysis and recommendations.
2019	OVK	Fuelling Station	Full hydrogeological investigation including borehole drilling, water sampling, data analysis, development of a conceptual model and impact assessment recommendations.
2019	PGC	Fuelling Station	Full hydrogeological investigation including borehole drilling, water sampling, data analysis, development of a conceptual model and impact assessment recommendations.

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June 2020	JM Professional Service CC	Proposal, Recommendations and Siting of Monitoring Boreholes: Mmamahabane Cemetery Establishment, Free State Province.
Sep 2020	NEP Consulting Engineers (Pty) Ltd	Geohydrological Investigation of the New Proposed Position of the Stella Waste Water Treatment Works by Conducting Geophysics and Field Investigations.
May 2023	NEP Consulting Engineers (Pty) Ltd	Geohydrological Investigation to Determine the Suitability of the Open Cast Clay Pit to act as an Evaporation- and Holding Dam for the Treated Effluent from the Newly Constructed Waste Water Treatment Works, Stella, North-West
Nov 2020	JM Professional Service CC	Geohydrological Investigation for the Safe Groundwater Abstraction and the Possibility of Crop Production under Pivots.
August 2020	Private Client (Farmer)	Phase 1 Geohydrological Investigation for the Possibility of Abstracting Groundwater Resources.
March 2020	Moedi Consulting Engineers	Geohydrological Assessment and Recommendations to Determine the Need for Rehabilitation of Previously Contaminated Land.
June 2021	JM Professional Service CC	Geohydrological Investigation: DEVELOPMENT: BUS AND TAXI HOLDING AREA; INCLUDING A FILLING STATION, CAR WASH, TYER OUTLET, WORKSHOP, RESTAURANT AND OFFICE BUILDINGS, MAFIKENG 3782/RE MAHIKENG, NORTH WEST PROVINCE



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June 2021	JM Professional Service CC	Geohydrological Investigation: DEVELOPMENT: BUS AND TAXI HOLDING AREA; INCLUDING A FILLING STATION, CAR WASH, TYER OUTLET, WORKSHOP, RESTAURANT AND OFFICE BUILDINGS, MAFIKENG 3782/RE MAHIKENG, NORTH WEST PROVINCE
June 2021	Mantsopa Local Municipality	Geological Investigation of Ladybrand, Hobhouse, Excelsior and Tweespruit in the Mantsopa Local Municipality for Borrow Pits.
Feb 2022	Digital Projects Trading (Pty) Ltd	Full Geohydrological Investigation for an EIA
June 2022 - Current	Mokala Manganese Mine (Pty) Ltd	Annual Water Management Plans: • June 2022 • Dec 2022 • June 2023 • Dec 2023 • June 2024
June 2022 - Current	Mokala Manganese Mine (Pty) Ltd	Annual Water Management Plans: ·June 2022 ·Dec 2022 ·June 2023 ·Dec 2023 June 2024
July 2022	NEP Consulting Engineers (Pty) Ltd	Bankhara Water Supply Geohydrological Investigation for the Construction of Bulk Water Supply and Internal Reticulation for Promise Land.
Oct 2022	Exigent Engineering Consultants CC and Tangablox (Pty) Ltd	Geohydrological Investigation for a Low Income and Affordable Housing Project, Bloemfontein, Mangaung Municipality, Free State Province.
March 2020	Moedi Consulting Engineers	Geohydrological Assessment and Recommendations to Determine the Need for Rehabilitation of Previously Contaminated Land.
Dec 2022	Tiriano Construction Fund and SMEC Consulting Engineers (Tender)	Full Geohydrological Investigation -Provision of Boreholes to Selected Municipalities in Seven Towns
March 2023	BVI Consulting Engineers	Sanitation Protocol for Greater Taung Local Municipality Sanitation Protocol for Kagisano Molopo Local Municipality
Nov 2023	BVI Consulting Engineers	GEOHYDROLOGICAL ASSESSMENT REPORT Pump Tests, Chemical Analysis, Geophysics, Drilling and Safe Yield Calculations Village of Laxey, Northern Cape
Nov 2023	BVI Consulting Engineers	GEOHYDROLOGICAL ASSESSMENT REPORT Pump Tests, Chemical Analysis and Safe Yield Calculations. Village of Lurie, Northern Cape



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Feb 2024	NEP Consulting Engineers (Pty) Ltd (Tender)	Wellfield Development -EMERGENCY WATER SUPPLY AUGMENTATION PROJECT FOR WOLMARANSSTAD EXT 13,17,18 &19
July 2024	NEP Consulting Engineers (Pty) Ltd	After Care Report and Adjusted Safe Yields-EMERGENCY WATER SUPPLY AUGMENTATION PROJECT FOR WOLMARANSSTAD EXT 13,17,18 &19
July 2023	ML Mining Group (Pty) Ltd	GEOLOGICAL VOLUME CALCULATIONS FOR A QUARRY NEAR ZWENI, EASTERN CAPE.
Oct 2023	NEP Consulting Engineers (Pty) Ltd	WATER SUPPLY FOR NALEDI MUNICIPAL BUILDING, VRYBURG
April 2024	NEP Consulting Engineers (Pty) Ltd (Tender)	Wellfield Development - EMERGENCY WATER SUPPLY AUGMENTATION PROJECT FOR MAPOTENG
March 2024	NEP Consulting Engineers (Pty) Ltd (Tender)	MAPOTENG GROUNDWATER SUPPLY AND RESOURCE MANAGEMENT Geohydrological Recommendations on Aquifer Management.
Sep 2024	BVI Consulting Engineers	Sanitation Protocol for Greater Taung Local Municipality Sanitation Protocol for Kagisano Molopo Local Municipality
Sep 2024	NEP Consulting Engineers (Pty) Ltd	GROUNDWATER PROTOCOL STELLA - WASTE WATER TREATMENT WORKS, CANAL AND RETENSION/ EVAPORATION DAM.
January 2024	Tirisano Construction Fund	GEOPHYSICAL INVESTIGATION AND BOREHOLE SITING FOR THE VILLAGE OF KINGSLEY, KWA-ZULU NATAL
April 2024	Tirisano Construction Fund	GEOPHYSICAL INVESTIGATION AND BOREHOLE SITING OUTSIDE VICTORIA-WEST, NORTHERN CAPE
March 2024	BVI Consulting Engineers	DOWN-THE-HOLE Camera Inspection for New BH01 Village of Laxey, Northern Cape
Aug 2024	BVI Consulting Engineers	Geohydrological Investigation – Borehole Siting, Drilling, Pump Test and Chemical Analysis.
Aug 2024	BVI Consulting Engineers	Drilling Supervision, Logging and Water Sampling
Feb 2025	Tirisano Construction Fund	OLIFANTSHOEK PUMP TESTS AND ASSESSMENT OF WATER RESOURCES Geohydrological Recommendations on Aquifer Management



Experience (Environmental Impact Projects)

<u>TYPE</u>	<u>CLIENT</u>	<u>PROJECT</u>	<u>ROLE</u>
Water License	Jagersfontein Developments	Audit & Compliance	Monthly audits and compliance according to WUL conditions
	Eland Springs	Water License dewatering	EIA & WUL for the re-opening of a previously mined diamond mine
	Tau-Pele	Farm Barrow pit	Completion of a Section 21(c) and (i) for the opening of a new barrow pit
	Basfour	Kilmorey	Section 21(a),(c) and (i) for the abstraction of water and within 100m of the Vaal River
	Jenn Training College	College Construction	Section 21(c) and (i) for the destruction of an artificial wetland
	Jagersfontein Developments	New prospecting right	Section 21(c) and (i) for bulk sampling within watercourses.
Mining Permits or Rights	Jagersfontein Developments	Application for new mining right	Full EIA
Road Construction	Tau Pele Construction	Indwe-Elliot	Quarterly environmental audits
	Tau-Pele Construction	Nelspruit	Quarterly environmental audits
	Tau-Pele Construction	Water License	Section 21(c) for the abstraction of water from a dam
Infrastructure Developments	Jenn Training College	Construction and expansion of current infrastructure	Basis assessment report for the development of a college
Mine Closure	Jagersfontein Developments	Backfilling of the Jagersfontein open cast pit	EIA, GN 704 motivation, impact assessment and hydrogeological assessment
Agricultural	Basfour	Agricultural development on a 68 ha farm	EIA, plough certificate, agricultural business plan and Storm Water Management Plan
	Tau-Pele	Farm Barrow pit	Completion of a Section 21(c) and (i) for the opening of a new barrow pit
	Basfour	Kilmorey	Section 21(a),(c) and (i) for the abstraction of water and within 100m of the Vaal River
	Jenn Training College	College Construction	Section 21(c) and (i) for the destruction of an artificial wetland
	Jagersfontein Developments	New prospecting right	Section 21(c) and (i) for bulk sampling within watercourses.
Mining Permits or Rights	Jagersfontein Developments	Application for new mining right	Full EIA
Road Construction	Tau Pele Construction	Indwe-Elliot	Quarterly environmental audits



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	Tau-Pele Construction	Nelspruit	Quarterly environmental audits
	Tau-Pele Construction	Water License	Section 21(c) for the abstraction of water from a dam
Infrastructure Developments	Jenn Training College	Construction and expansion of current infrastructure	Basis assessment report for the development of a college

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April 2022	JM Professional Service CC	24g final application for the rectification of unlawful commencement of a listed activity, including the proposed development of two new pivots (24ha) on the farm harmonie 140, murraysburg, western cape province.
July 2020	Bakoro Trust	Chemical and Microbiological Analysis and Recommendations on Water Quality within the Water Storage Tank.
April 2022	Zutari Consulting Engineers (Pty) Ltd	STORM WATER MANAGEMENT PLAN Assessing Risk and Storm Water Implementation Methods for the Pipeline between Riverton and Boshof
April 2021	Tja Naledi Beafase Investment Holdings (Pty) Ltd.	REVIEW & UPDATE OF FINANCIAL PROVISION Financial Provision for 2021 at Tja Naledi Beafase Investment Holdings (Pty) Ltd
June 2021	Mantsopa Local Municipality	LICENSING OF GRAVEL BORROW PITS IN THE MANTSOPA LOCAL MUNICIPALITY
July 2021	Gamagara Local Municipality	ENVIRONMENTAL SCREENING AND SITE ALTERNATIVE ANALYSIS - Kathu New Landfill Site Development.
Oct 2022	Tsela-Tsweu Consulting Engineers	Final Basic Assessment Report– Decommissioning of the Deben Landfill Site
Dec 2022 – Dec 2023	Private Farmer	Annual WULA Audit
Sep 2022	Tja Naledi Beafase Investment Holdings (Pty) Ltd. Client:	REVIEW & UPDATE OF FINANCIAL PROVISION Financial Provision for 2022 - 2023 at Tja Naledi Beafase Investment Holdings (Pty) Ltd
April 2023	Noord-Kaap Steen Werke Bpk.	Annual Environmental Audit
June 2023	Noord-Kaap Steen Werke Bpk.	ANNUAL FINANCIAL PROVISION FOR REHABILITATION NOORD-KAAP STEENWERKE
Aug 2024	Noord-Kaap Steen Werke Bpk.	APPLICATION FOR RENEWAL OF A MINING RIGHT IN ACCORDANCE WITH SECTION 24 OF THE MINERAL AND PETROLEUM RESOURCES DEVELOPMENT ACT (ACT 28 OF 2002)
Aug 2024	Noord-Kaap Steen Werke Bpk.	Updating of a Mine Works Program



Environmental Monitoring Projects

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2019 - 2022	Department of Police, Roads and Transport	Road Construction Environmental Monitoring. Deneysville to Jim Fouche
Sep 2020 – March 2022	Department of Police, Roads and Transport	Road Construction Environmental Monitoring. Kroonstad to Viljoenskroon
June 2020 – Feb 2022	Department of Police, Roads and Transport	Road Construction Environmental Monitoring. Senekal - Ventersburg
Jan 2020 – Jan 2021	Department of Police, Roads and Transport	Road Construction Environmental Monitoring. Thaba Nchu S110
Jan 2020 – Nov 2021	Department of Police, Roads and Transport	Road Construction Environmental Monitoring. Viljoenskroon - Vredefort
Nov 2021 – June 2023	Mokala Managanese Mine (Pty) Ltd	Annual Environmental Audits (Environmental, - Water and Mining Conditions)
Oct 2021 – May 2022	Phokwane Local Municipality	REFURBISHMENT OF FOUR SEWER PUMP STATIONS Pampierstad
Oct 2021 – Jan 2022	JOE MOROLONG LOCAL MUNICIPALITY	WATER SUPPLY AUGMENTATION TO KOME
Oct 2021 – Jan 2022	JOE MOROLONG LOCAL MUNICIPALITY	Makhubung Phase 6, Rural Roads Programme
Oct 2021 – Jan 2022	JOE MOROLONG LOCAL MUNICIPALITY	Gatshekedi, Rural Water Programme
Feb 2022 – May 2022	JOE MOROLONG LOCAL MUNICIPALITY	Gamokwane Extension, Rural Water Programme
May 2022	JOE MOROLONG LOCAL MUNICIPALITY	Shalaneng Village, Rural Water Programme
Sep 2022 – June 2024	Empyreal	The Construction of Civil Services for Gamakor
Nov 2022 – April 2024	Kheis Municipality	NEW TOWNSHIP DEVELOPMENT
Aug 2022 – June 2023	GIC	GOUTROU DEVELOPMENT, HOPETOWN, NORTHERN CAPE
Sep 2022 – Oct 2024	Department of Police, Roads and Transport	ROAD R 48 MAINTENANCE BETWEEN KOFFIEFONTEIN AND HAVENGA BRIDGE