



## Dr. Mathys Vosloo

### Professional Registrations:

- (SACNASP) South African Council for Natural Scientific Professions
- (IAIAsa) International Association for Impact Assessment – South Africa

### Occupation:

- Senior Environmental Scientist

### Specialisation:

- Environmental and Social Impact Assessments
- Strategic Environmental Assessments
- Estuarine Ecological Assessments
- Project Management and GIS

### Education:

- Ph.D., Zoology, 2012 Nelson Mandela Metropolitan University
- M.Sc., Zoology, 2003 University of Port Elizabeth
- B.Sc. Hons, Zoology, 2001 University of Port Elizabeth
- B.Sc., Zoology and Botany, 2000 University of PE

### KEY EXPERIENCE

Dr. Mathys Vosloo is a well-qualified and technically proficient environmental and natural scientist with more than 12 years environmental management experience. His experience include Environmental Impact Assessments (EIAs) and the development of Environmental Management Programmes during environmental assessments of construction projects, environmental compliance monitoring and reporting, and Environmental Control Officer (ECO) services for construction projects. Recent experience includes project management and execution of large waste related projects, such as the application for development of Ash Disposal Facilities, and large linear projects such as the management EIA process for the implementation of extensive power lines for renewable projects. Mathys also has substantial experience in Geographical Information Systems (GIS), creating and analysing digital terrain models, runoff and stream flow analysis, stormwater design and map-making for projects in Africa. Further experience include the development and completion of State Of the Environment Reporting (SOER), Strategic Environmental Assessments (SEA) and feasibility studies. Mathys' experience in natural science include aquatic ecological assessments, project management and sample collection in several west, south and east coast estuaries, including ecosystem analysis of estuaries in the Eastern Cape and former Transkei area.

### PROJECT EXPERIENCE

**2017 PPP and WOP for Kusile PS 60year ADF R 2.8m**  
Public participation process for Wetland Offset Strategy and implementation of Wetland Offset Plan for the Kusile Power Station 60year Ash Disposal Facility.

**2017 BA for KEMJV slimes pipeline R 230 000**  
Basic Assessment for construction of slimes pipeline for Kimberley Ekapa Mine Joint Venture, Northern Cape.

**2016 - 2017 Asbestos Mine Rehabilitation Programme R 1.3 million**  
Undertaking environmental site investigations and project scoping for the rehabilitation of 10 derelict and abandoned asbestos mines in Limpopo and Mpumalanga Provinces.

## PROJECT EXPERIENCE (continued)

<b>2016</b>	<b>Walkdown &amp; WULA for Kuruman Powerline upgrade</b>	<b>R 355 000</b>
	Specialist walkdown of approved 132 kV powerline servitude between Kuruman and Kathu, Northern Cape.	
<b>2016 - 2017</b>	<b>EA Amendment for Kuruman Powerline Upgrade</b>	<b>R 60 000</b>
	EA Amendment application i.t.o. EIA 2014 regulations for amendment to the approved 132 kV powerline corridor between Hotazel, Kuruman and Kathu, Northern Cape.	
<b>2016</b>	<b>Breede-Gourits CMS: Estuarine component</b>	<b>R 81 000</b>
	Estuary Situation Assessment to inform the Breede-Gourits Catchment Management Strategy for Breede-Gourits Water Management Area.	
<b>2016 - 2017</b>	<b>BA for Tshepisoong Extension 4 development</b>	<b>R 198 000</b>
	Basic Assessment for Mixed Business and Residential Development within Portion 64 of Farm Vlakfontein 238 IQ, Tshepisoong Extension 4, Johannesburg West, Gauteng Province.	
<b>2016 - 2017</b>	<b>BA for Patensie Housing Development</b>	<b>R 283 000</b>
	Basic Assessment for the Patensie Housing Development, Eastern Cape.	
<b>2016</b>	<b>Specialist Walkdown for Kuruman Powerline upgrade</b>	<b>R 355 000</b>
	Specialist walkdown of approved 132 kV powerline servitude between Hotazel and Kuruman, Northern Cape.	
<b>2016</b>	<b>Solar Park EA Amendment</b>	<b>R 248 000</b>
	Environmental Authorisation (EA) Amendment application i.t.o. EIA 2014 regulations for amendments to the Solar Park to Nieuwehoop 400 kV power line corridor near Upington, Northern Cape.	
<b>2015 - 2016</b>	<b>Solar Park WULA</b>	<b>R 547 000</b>
	WULA for Solar Park to Nieuwehoop 400 kV powerline development near Upington, Northern Cape.	
<b>2015 - 2016</b>	<b>BA Clanwilliam Weirs</b>	<b>R 409 000</b>
	Proposed Re-alignment of the Bulshoek Dam and Doring River Weirs near Clanwilliam, Western Cape.	
<b>2015 - 2016</b>	<b>BA Klipspruit Valley</b>	<b>R 244 000</b>
	BA and WULA for the Klipspruit Valley Road Upgrade.	
<b>2014 - 2016</b>	<b>EIA Koffiefontein Slimes Dam</b>	<b>R1 million</b>
	EIA for the new Koffiefontein Slimes Dam Development, Kimberley.	
<b>2014 - 2015</b>	<b>BA and WULA Kuruman Upgrade</b>	<b>R1.3 million</b>
	BA and WULA for 132kV power line upgrade from Hotazel to Kuruman and Kathu, Northern Cape.	
<b>2013 - 2016</b>	<b>EIA Kendal 30 year Ash Disposal Facility</b>	<b>R6 million</b>
	EIA, WMLA and WULA for a new Ash Disposal Facility for Kendal Power Station near Ogies in Mpumalanga.	
<b>2013 - 2014</b>	<b>Design of 3 canals</b>	<b>R 700 000</b>
	3 x BAs for the proposed prevention of water ingress into previously mined out areas in the Witwatersrand Mining Basin (canalisation of 3 streams), Gauteng.	
<b>2013 - 2014</b>	<b>BA for Vaalbank Switching Station</b>	<b>R 380 000</b>
	Basic Assessment for Vaalbank Switching Station and 2 x 88 kV Powerlines, Free State.	

## PROJECT EXPERIENCE (continued)

<b>2012 - 2015</b>	<b>EIA Solar Park</b>	<b>R5 million</b>
EIA, EMP & WULA for the Solar Park 132/400 kV Sub Station and Associated lines, Northern Cape.		
<b>2012 - 2015</b>	<b>Kusile 60 year Ash Disposal Facility</b>	<b>R11 million</b>
EIA, WML and WULA for the 60 year Ash Disposal Project near Balmoral in Mpumalanga.		
<b>2012 - 2015</b>	<b>WULA Wilge Pipeline</b>	<b>R 900 000</b>
WULA for the sewage and water pipeline from Wilge Township to Phola, Mpumalanga.		
<b>2012</b>	<b>BA Kouga Dam Wall</b>	<b>R 250 000</b>
The rehabilitation of the Kouga Dam wall and associated mining activities.		
<b>2012</b>	<b>EMP City of Cape Town Stormwater</b>	<b>R1.5 million</b>
Maintenance and management interventions undertaken by the City of Cape Town in its surface stormwater systems.		
<b>2012</b>	<b>BA Melkhout Powerlines</b>	<b>R 100 000</b>
The installation of 132kV transmission lines from Melkhout to Dieprivier, including the construction of a new substation at Dieprivier, Cacadu District.		
<b>2012</b>	<b>BA Dieprivier Powerlines</b>	<b>R 100 000</b>
The installation of 132kV transmission lines from Dieprivier to Kareedouw, including the extension of the existing substation at Kareedouw, Cacadu District.		
<b>2012</b>	<b>BA Patensie Powerlines</b>	<b>R 100 000</b>
The installation of 132kV transmission lines from Melkhout to Patensie, including the construction of a new substation at Patensie, Cacadu District.		
<b>2012</b>	<b>Mmthatha River System</b>	
Catchment delineation and stream calculation for the Mnthatha River System, GIBB Durban.		
<b>2011 - 2012</b>	<b>PRASA Passenger rail and shunting yard proposed sites</b>	
Environmental Screening for the PRASA passenger rail and shunting yard proposed sites in Cape Town, Gauteng and Durban.		
<b>2010 - 2012</b>	<b>ATTP Flow Limiters installation</b>	
NMBM Assistance to the poor (ATTP) and schools leakages repairs and flow limiters installation.		
<b>2010 - 2012</b>	<b>ATTP Database Management Flow Limiters installation</b>	<b>R4 million</b>
NMBM Assistance to the poor (ATTP) and schools leakages repairs and flow limiters installation database management.		
<b>2010 - 2011</b>	<b>Nelson Mandela Bay Provincial Department of Housing</b>	
Nelson Mandela Bay and Cradock low cost housing rectification audits. Management of incoming and outgoing GIS data and GIS mapping, Provincial Department of Housing.		
<b>2010 - 2011</b>	<b>ECO Bulk Stormwater Infrastructure Motherwell</b>	
Installation of bulk storm water infrastructure in Motherwell NU29 and 30 and Implementation of an artificial wetland at the Motherwell stormwater canal outlet structure.		

## PROJECT EXPERIENCE (continued)

<b>2010</b>	<b>BA McAdam Street Upgrade</b>	<b>R 60 000</b>
	The extension of McAdam Street from Worraker to Mangold Street, NMBM.	
<b>2009 - 2011</b>	<b>EIA Motherwell Housing Development</b>	<b>R 270 000</b>
	Motherwell NU 31 housing development, NMBM.	
<b>2009 - 2011</b>	<b>Coega Integrated Stormwater Management Plan</b>	
	Coega IDZ Eastern Sector Integrated Stormwater Management Plan, Coega Development Corporation.	
<b>2009 - 2011</b>	<b>EIA KougaWind Farm</b>	<b>R 350 000</b>
	Kouga 300 MW wind farm, Kouga Local Municipality.	
<b>2009 - 2010</b>	<b>ECO Swartkops River Artificial Wetland</b>	
	Swartkops River, NMBM.	
<b>2009 - 2010</b>	<b>ECO Humewood Road Upgrade</b>	
	Realignment of the S-bend section of Humewood Road in Humewood.	
<b>2009 - 2010</b>	<b>ECO Paapenuils Sewer Augmentation</b>	
	Paapenuils Main Sewer Augmentation in Port Elizabeth NMBM.	
<b>2009 - 2010</b>	<b>SOER State of the Environment Report</b>	<b>R 350 000</b>
	NMBM State of the Environment Report.	
<b>2009 - 2010</b>	<b>ISWMP Coega IDZ</b>	<b>R 350 000</b>
	Coega IDZ Eastern Sector Integrated Stormwater Management Plan, CDC.	
<b>2009 - 2010</b>	<b>SOER Flood Plain and Spatial Analysis</b>	
	Nelson Mandela Metropolitan Municipality SOER flood plain and spatial analysis, NMBM.	
<b>2009 - 2010</b>	<b>EIA – Red Cap Developments</b>	
	Kouga Local Municipality wind farm development EIA, RedCap Developments.	
<b>2008 - 2009</b>	<b>Port Harcourt City Open Space System Plan</b>	
	Port Harcourt City Open Space System Plan, Government of Nigeria.	
<b>2008 - 2009</b>	<b>ECO Kwazakhele stormwater infrastructure</b>	
	Construction of stormwater detention ponds and upgrading of stormwater infrastructure in Kwazakhele, Phase 3.	
<b>2008</b>	<b>ECO Sherwood Road Upgrade</b>	
	Upgrading of Devon and Fairley Roads in Port Elizabeth, NMBM.	
<b>2008</b>	<b>OR Tambo District Municipality water conservation and demand management</b>	
	OR Tambo District Municipality water conservation and demand management.	
<b>2008</b>	<b>SOER Eden District Municipality</b>	
	Eden District Municipality SOER, Eden District Municipality.	
<b>2008</b>	<b>Kouga Local Municipality catchment and flood attenuation analysis</b>	
	Jeffreys Bay Marina Martinique catchment and flood attenuation analysis, Kouga Local Municipality.	
<b>2008</b>	<b>EIA Bethelsdorp Housing Development</b>	<b>R 230 000</b>
	Bethelsdorp Phase 3 social housing development, NMBM.	

## PROJECT EXPERIENCE (continued)

<b>2008</b>	<b>BA Beacon Maritime Navigational Structure Upgrade</b>	<b>R 60 000</b>
	Beacon maritime navigational structure upgrading, NMBM.	
<b>2008</b>	<b>BA Moffet Dam Rehabilitation</b>	<b>R 60 000</b>
	Moffet Dam breach remedial works, Kouga Local Municipality.	
<b>2008</b>	<b>BA Pollok Beach light mast installation</b>	<b>R 50 000</b>
	Pollok Beach light mast installation, NMBM.	
<b>2008</b>	<b>BA Humewood Road Re-alignment</b>	<b>R 60 000</b>
	Humewood Road re-alignment along the S-bend section, NMBM.	
<b>2008</b>	<b>SOER Hessequa Local Municipality</b>	<b>R 200 000</b>
	Hessequa Local Municipality State of the Environment Summary Report.	
<b>2008</b>	<b>SEA Coastline redevelopment</b>	<b>R 250 000</b>
	North End Coastline redevelopment SEA, NMBM.	
<b>2008</b>	<b>Mzimkhulu River catchment and flood attenuation analysis</b>	
	Mzimkhulu River catchment and flood attenuation analysis, Umzimkhulu Municipality.	
<b>2008</b>	<b>PE Paapenkuils River catchment and flood attenuation analysis</b>	
	Port Elizabeth Paapenkuils River catchment and flood attenuation analysis, NMBM.	
<b>2007 - 2008</b>	<b>ECO Mavuso Road Upgrade</b>	
	Construction of Mavuso Road in Kwazakhele, NMBM.	
<b>2007</b>	<b>BA Jagersfontein Chicken Farm</b>	<b>R 40 000</b>
	Jagersfontein farm 432 commercial production of chicken and operation of an abattoir, Kouga Local Municipality.	
<b>2007</b>	<b>BA Zwide Roads Upgrade</b>	<b>R 55 000</b>
	Tarring of roads in Zwide, NMBM.	
<b>2007</b>	<b>BA McAdam Street Construction</b>	<b>R 40 000</b>
	Construction and extension of McAdam Street, NMBM.	
<b>2007</b>	<b>BA Tygerbay Reconstruction</b>	<b>R 60 000</b>
	Repair and reconstruction of water retaining structures at Tyger Bay EIA NMBM.	
<b>2007</b>	<b>BA Lorraine Infill development</b>	<b>R 40 000</b>
	Erf 306 Lorraine Infill development, NMBM.	
<b>2007</b>	<b>BA Sherwood Roads Upgrade</b>	<b>R 40 000</b>
	Tarring of roads in Sherwood, NMBM.	
<b>2007</b>	<b>BA Zwide Roads Upgrade</b>	<b>R 40 000</b>
	Tarring of Ntsele, Mkutuka, Nanto and Vabaza Streets in Zwide, NMBM.	
<b>2007</b>	<b>BA Pollok Beach Parking Lot</b>	<b>R 50 000</b>
	Pollok Beach, Summerstrand, parking lot relocation, NMBM.	
<b>2007</b>	<b>BA Uitenhage Roads Upgrade</b>	<b>R 40 000</b>
	Tarring of Dube, Grootboom and Luzipho Streets in Uitenhage, NMBM.	

## PROJECT EXPERIENCE (continued)

<b>2007</b>	<b>BA PE ICC Site Assessment</b>	<b>R 150 000</b>
	Port Elizabeth International Convention Centre Rapid site assessment, NMBM.	
<b>2007</b>	<b>EIA Exemptions Applications Motherwell</b>	
	Motherwell/Coega outfall canal upgrade.	
<b>2007</b>	<b>EIA Exemptions Applications Lorraine Infill Development</b>	
	Erf 17, Lorraine, infill development.	
<b>2007</b>	<b>EIA Exemptions Applications Korsten Upgrade</b>	
	Korsten Modal Interchange Upgrade.	
<b>2007</b>	<b>GIS SANRAL outdoor advertising opportunities</b>	
	SANRAL outdoor advertising opportunities in the Eastern Cape, SANRAL.	
<b>2007</b>	<b>Coega Integrated Stormwater Plan</b>	
	Coega Integrated Stormwater Plan, Coega Development Corporation.	
<b>2007</b>	<b>Uitenhage Stormwater Master Plan</b>	
	Uitenhage Stormwater Master Plan, NMBM.	
<b>2006</b>	<b>Nelson Mandela Metropolitan University exchange programme</b>	
	Analyses and identification of nematode collected samples from the Mngazi Estuary in the Eastern Cape (former Transkei), South Africa, University of Ghent, Belgium – Nelson Mandela Metropolitan University exchange programme.	
<b>2005 - 2006</b>	<b>Berg River Reserve Determination Study</b>	<b>R 150 000</b>
	Hyperbenthos and zooplankton field assessment in Berg River estuary.	
<b>2005</b>	<b>Olifants River Reserve Determination Study, Western Cape</b>	<b>R 300 000</b>
	Specialised field ecologist - Field assessment: subtidal macrozoobenthos, hyperbenthos and zooplankton in Olifants River estuary for the Olifants River Reserve Determination study, Western Cape., Contracted sampling for CSIR Stellenbosch (Environmentek).	
<b>2004- 2005</b>	<b>DWAF - Kromme and Seekoei Estuary Reserve Determination Study</b>	<b>R 200 000</b>
	Specialised field ecologist - Kromme and Seekoei Estuary Catchment Reserve Study. Contracted sampling for Department of Water Affairs and Forestry (DWAF).	
<b>2003 - 2004</b>	<b>Berg River Baseline Monitoring Program (UCT)</b>	<b>R 350 000</b>
	Berg River Baseline Monitoring Program (UCT). Collecting subtidal macrozoobenthos.	
<b>2002 - 2006</b>	<b>University of Port Elizabeth Ecological analysis</b>	<b>R4 million</b>
	Specialised field ecologist - Field assessment: subtidal macrozoobenthic and hyperbenthic invertebrates, zooplankton, microzooplankton, meiofauna at Mngazi and Mngazana River estuaries.	
<b>2002 - 2003</b>	<b>University of Port Elizabeth Ecological analysis</b>	
	Ecological analysis of the functioning Sundays, Swartkops, Kromme, and Gamtoos estuaries using Ecopath with Ecosim, and assessment of the impact of recreational fishing on these ecosystems. MSc dissertation, University of Port Elizabeth.	

## PROJECT EXPERIENCE (continued)

- 2002 Sylt Ecosystem, Germany R 250 000**  
Assistant ecosystem modeller - Assisting in preparation and balancing of ecosystem carbon flow models of the Sylt Ecosystem, Germany.
- 2002 Field assessment: subtidal macrozoobenthos, hyperbenthos and zooplankton in Rooiels R 400 000**  
Specialised field ecologist - Field assessment: subtidal macrozoobenthos, hyperbenthos and zooplankton in Rooiels, Palmiet, Heuningnes, Breede, Klein Brak and Kaaimans River estuaries, Western Cape.
- 2002 Field Assessment - intertidal invertebrates Eastern Cape R 150 000**  
Specialised field ecologist - Field assessment: intertidal invertebrates in Kabeljous, Gamtoos, Swartkops, Sundays and Kariga River estuaries, Eastern Cape.

## PAPERS, PUBLICATIONS, PRESENTATIONS AND PROFESSIONAL SOCIETIES

### PAPERS, PUBLICATIONS

1. Vosloo, M C and Hendricks, M G J. 2017. Marine and estuarine nematodes in South Africa, Book Chapter. In *Nematology in South Africa: A view from the 21<sup>st</sup> Century*. Fourie, Spaul, Jones, Daneel, De Waele (Eds).
2. Vosloo, M.C. 2012. Network analysis of trophic linkages in two sub-tropical estuaries along the south-east coast of South Africa. PhD thesis, Nelson Mandela Metropolitan University.
3. Vosloo, M.C. 2009. Marine and estuarine meiofauna: Contribution to the National Marine Ecosystem Diagnostic Analysis. Agulhas and Somali Current Large Marine Ecosystems.
4. Vosloo, M.C. 2004. A comparative assessment of the impact of recreational and subsistence fishing on selected Eastern Cape estuarine ecosystems using the Ecopath modelling approach. MSc Dissertation, University of Port Elizabeth, Port Elizabeth.

### PROFESSIONAL SOCIETIES

1. Member of International Association for Impact Assessment – South Africa (IAIASa)
2. Registered member of South African Council for Natural Scientific Professions, (SACNASP)

### EMPLOYMENT RECORD

2013 - Present	Zitholele Consulting	Manager: Licencing and Permitting, Senior Environmental Consultant
2012	GIBB Engineering and Science	Senior Environmental Scientist
2007 – 2011	GIBB Engineering and Science	Environmental Scientist



2008 – 2011	Nelson Mandela Metropolitan University	Postgraduate (part-time) Student
2005 – 2007	Nelson Mandela Metropolitan University	Full time Postgraduate (PhD) Student
2001 - 2003	University of Port Elizabeth	Full time postgraduate (MSc) Student
2006	University of Ghent, Belgium	Exchange Ecologist