

CURRICULUM VITAE

Mrs V MARAIS

Name : **MARAIS, VANESSA**
Date of Birth : 13 December 1970
Marital Status : Married
Profession/Specialisation : Environmental Practitioner
Nationality : South African
Years experience : 12

KEY QUALIFICATIONS

Vanessa Marais is a Landscape Architect and has specialized in the development of management processes and guidelines for the review of environmental impact assessments. She has been extensively involved in policy decisions relating to environmental impact management within the ambit of the national context. Her field of expertise is environmental impact management, evaluation and review with analysis of processes used for environmental impact management as well as the mitigation of these impacts within the environmental management plan context.

While working at a big engineering firm, her experience in the field of Environmental Impact Assessments (EIAs) has enabled her to develop mechanisms for determining impacts associated with developments as well as mitigating measures for Environmental Management Plans (EMP). She gained valuable experience in project management while contributing to various projects in the environmental field. She has used the vast experience in EIAs and EMPs to externally audit environmental conditions at various construction projects, notably the Kruger Mpumalanga International Airport, the Development Bank of Southern Africa, Rabali Weir (Limpopo) and wind measuring masts in Port Nolloth.

From March 2004 she joined the Galago Environmental team where she has access to fauna and flora specialists, specialising in EIA specialist studies. Vanessa Marais manages the Environmental Impact Assessment process for projects, including Environmental Management Plans and uses specialists in fauna, invertebrate fauna and flora as sub consultants as needed. Her team has extensive experience in the field as specialists in mammals, birds, reptiles and amphibians, invertebrates and flora.

In recent years she has concentrated on Ecological Management Plans to conserve sensitive fauna and flora species on sites to be developed and Environmental Management Plans to reduce the impacts of proposed developments on the environment during the construction, operational and rehabilitation phases of a project. She also undertakes environmental Auditing and Monitoring to ensure that contractors adhere to the EMPs during the construction phase of a project.

The experience that she has gained as Landscape Architect and Environmental Practitioner together with the experience of Environmental Management Frameworks has become invaluable in the compilation of environmental sensitivity maps in GIS format as prescribed in the minimum requirements for Biodiversity Assessments.

EMPLOYMENT RECORD

2004 - date	Galago Environmental, Environmental Practitioner
2001 - 2004	AFRICON, Environmental Specialist
1998 - 2001	National Department of Environmental Affairs and Tourism, Landscape Architect: Environmental Impact Management
1997 - 1998	Tropics Nursery, Landscape Architect

EXPERIENCE RECORD

DBSA alterations and additions EMP and Environmental Control Officer, Gauteng 2008 – up to date. *Environmental Control Officer. Compilations of the EMP and Environmental monitoring to ensure that the contractors adhere to the EMP during the construction of the Soccer field and parking area as well as additions to the DBSA, Midrand, Gauteng. (DBSA)*

Wind measuring mast in Port Nolloth, Environmental Auditing, Northern Cape 2008. *Environmental Control Officer. Environmental monitoring to ensure that the contractors adhere to the EMP during the construction of the wind measuring mast, Port Nolloth, Northern Cape. (Mr W Gardner from USA)*

Wind measuring masts in Port Nolloth and Kleinsee EIA and EMP, Northern Cape 2007. *Environmental Practitioner. Conducting three Environmental Impact Assessments (EIA) and Environmental Management Plans (EMP) for the proposed construction of wind measuring masts, Northern Cape. (Mr W Gardner from USA)*

Lesedi Environmental Management Framework (EMF), Lesedi (South Africa) 2005 - 2006. *Environmental Specialist and team leader of the ecological team. Conducting the specialist studies and mapping of sensitivity areas in order to determine the environmental sensitivity of the Lesedi area for the Lesedi EMF. (Lesedi and GDACE)*

Boekenhoutkloof clay quarry EIA, Pretoria (South Africa) 2005 - 2007. *Environmental Specialist. Conducting an Environmental Impact Assessment (EIA) and Environmental Management Programme (EMP) for the proposed Boekenhoutkloof quarry in terms of the MPRDA and EIA Regulations, 2002. (Corobrick)*

Sandstone Ridge Country Estate EIA, Bethlehem (South Africa) 2005 - 2006. *Environmental Specialist. Conducting an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for the development of the proposed Sandstone Ridge Country Estate, Bethlehem, Free State. (Mr J Wohltz)*

Sontonga hills exemption process, Soweto (South Africa) 2005 - 2006. *Environmental Specialist. The development of a motivation report and public participation process as part of the exemption process. (Johannesburg City Parks)*

Theresapark x 50 exemption process, Akasia (South Africa) 2004-2005. *Environmental Specialist. The development of a motivation report and public participation process as part of the exemption process.*

Heatherview x 35 exemption process, Akasia (South Africa) 2004-2005. *Environmental Specialist. The development of a motivation report and public participation process as part of the exemption process.*

Donkerhoek Quarry revision of the Environmental Management Plan (South Africa) 2004. *Environmental Specialist. Revision of the fauna and flora as well as rehabilitation components of an existing EMP for the mining operations at Donkerhoek quarry.*

Meyersdal Nature Estate Environmental Management Plan (South Africa) 2004. *Environmental Specialist. Establishment of an EMP for an exclusive residential estate in the Meyersdal Nature Estate. Incorporating the environmental impact assessment for the planning, design, construction, rehabilitation and operational phase of the development zones 3-6 of the Meyersdal Nature Estate, Gauteng (R&D Projects).*

Mbombela State of the Environment Report (South Africa) 2003 – 2004. *Project Leader and Environmental Specialist. Establishment and development of a base for environmental reporting based on the United Nations Environment Programme DSPIR model, Mbombela, Mpumalanga.*

Moses Kotane Environmental Policy (South Africa) October 2003 – May 2004. *Environmental Specialist: Developing an Environmental Policy for the Moses Kotane Local Municipality, North West. (Moses Kotane Local Municipality)*

Freedom Park Legacy Project Ecological Management Plan (South Africa) 2004. *Environmental Specialist.* Compilation of an Ecological Management Plan of the operation phase of the Freedom Park Legacy Project, Gauteng. (Freedom Park Trust)

Limpopo State of the Environment Report (South Africa) 2003. *Environmental Specialist.* Establishment and development of a base for environmental reporting based on the United Nations Environment Programme DSPIR model, Department of Agriculture, Land and Environmental Affairs, Limpopo.

Production of an Environmental Structure Plan and Policy for the City of Windhoek (Namibia) May 2003 - December 2003. *Project Leader and Environmental Specialist.* The ESP will provide essential information for land use planning for development programmes and classify the area into environmental zones for various types of development. Part of the process will be to compile a database of the physio-ecological information that will be available in a geographic information system (GIS) and environmental information system (EIS). The development of the ESP will provide the basis for the development of an Environmental Policy.

Mehloding Hiking Trail Access Roads Environmental Impact Assessment (South Africa) 2003 *Environmental Specialist and project leader.* Conducting an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for the development of the proposed access roads, Matatiele, Eastern Cape. (Alfred Nzo District Municipality)

Clau-Clau Bus Route Environmental Impact Assessment (South Africa) July 2003 – September 2003 *Environmental Specialist and project leader:* Conducting an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for the development of the proposed Clau-Clau Bus Route, Mbombela, Mpumalanga. (Mbombela Local Municipality)

Spatial Representation of Industrial Areas in Gauteng Province and Recommendations on Buffer Zones (Gauteng, South Africa) phase 2. January 2003 - March 2003. *Environmental Specialist.* The development of a Geographic Information System (GIS) based decision support tool to ensure that housing projects in Gauteng are not allowed in areas posing environmental and health risks, by mapping and classifying all industrial areas in the province and establishing worst and best case buffer zones based on legal requirements and expert consultation. Involved for 1 person-month. (Gauteng Department of Agriculture, Conservation, Environment and Land Affairs).

Rabali Weir Environmental Management Plan Implementation Audits (South Africa) July 2003 – August 2004. *EMP Auditor.* Compliance auditing of the implementation of the Environmental Management Plan for the construction and rehabilitation phase of the project, Limpopo. (Department of Water Affairs and Forestry).

Mpumalanga Police Mast Environmental Impact Assessment (South Africa) 2002. *Environmental Specialist:* Conducting an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for the development of the proposed Police Mast, Durban, Kwazulu-Natal. (SA Police Service)

Freedom Park Legacy Project- Environmental Impact Assessment (South Africa) 2003. *Environmental Specialist:* Conducting an Environmental Impact Assessment (EIA), Environmental Management Plan (EMP) and Ecological Management Plan for Phase 1 of the construction activities for the Freedom Park Legacy Project, Gauteng. (Freedom Park Trust)

Proposed Lesotho Parliament and Residential Area for Parliamentarians in Maseru (Lesotho) September 2003. *Environmental Specialist:* Conducting an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) for the development of the proposed Lesotho Parliament and Residential areas for Parliamentarians in Maseru.

Combolcha - Gundewein Major Link Road EIA (Ethiopia) 2002. *Environmental Specialist* Conducting an Environmental Impact Assessment, including social impact assessment and Environmental Management Plan (EMP) for a major link road across the Blue Nile Gorge. (Ethiopia Environmental Department)

Environmental Scoping Report for the Resettlement project on Portion 4 of the Farm Groenwater, Postmasburg (South Africa) August 2002 - March 2003. *Environmental Specialist.* Review of specialist studies and establishment of an EIA for a resettlement project in the Postmasburg Area, Northern Cape Province.

Tourism Potential Survey and Socio-Economic Impact Assessment in Four Focus Areas of Madikwe, Barberton, Valley of the Olifants and Khayelitsha (South Africa) January 2002 - May 2002. *Tourism Promotion and Development Planning Officer.* The project involved a tourism promotion and development potential survey and a socio-economic impact assessment to review socio-economic conditions, estimate tourism demands and determine socio-economic impacts of tourism development in each of the focus areas. Involved for 1 person-month. (Japanese International Co-operation Agency (JICA)).

Master Plan for the Development of Mussulo Peninsula (Luanda, Angola) 2002. *Environmental specialist.* Development of a master plan for the development of the Mussulo Peninsula, incorporating an Environmental Management Framework (EMF) to focus development on the least sensitive areas, as well as proposals for applicable design standards and norms based on the carrying capacity of the Peninsula to ensure sustainable development. Involved for 1 person-months. (Angola Ministerio dos Transportes).

Environmental Impact Assessment (EIA) and Review of Engineering Design of the Mavoco Hazardous Waste Handling Facility (Beluluane, Mozambique) 2002. *Environmental Specialist.* Environmental Impact Assessment (EIA), Social Impact Assessment, and Environmental Management Plans (EMPs) for construction, operation and rehabilitation phases and review of engineering design of the Mavoco Hazardous Waste Landfill site and access road near Mozal. Involved for 1 person-months. (Ministerio para a Coordenacao a Accao Impacto Ambiental (Micoa)).

Meyersdal Nature Estate EIA and Environmental Planning Framework (South Africa) 2002. *Environmental Specialist.* Establishment of an EIA and environmental planning framework for an exclusive residential estate in the Meyersdal Nature Estate. Incorporating an environmental impact assessment, and environmental management plan for the planning, design, construction, rehabilitation and operational phase in Meyersdal, Gauteng (R&D Projects).

Spatial Representation of Industrial Areas in Gauteng Province and Recommendations on Buffer Zones (Gauteng, South Africa) January 2002 - March 2002. *Environmental Specialist.* The development of a Geographic Information System (GIS) based decision support tool to ensure that housing projects in Gauteng are not allowed in areas posing environmental and health risks, by mapping and classifying all industrial areas in the province and establishing worst and best case buffer zones based on legal requirements and expert consultation. Involved for 1 person-month. (Gauteng Department of Agriculture, Conservation, Environment and Land Affairs).

Setla-Kgobi Water Reticulation pre-feasibility study (South Africa) 2002. *Environmental Specialist.* Pre-feasibility study of the alternatives incorporating numerous reports conducted in the Setla-Kgobi area, North West province) (DWAf).

Bronberg Reservoir Environmental Management Plan Auditing (South Africa) August 2001 - date. *EMP Auditor.* Compliance auditing of the implementation of the environmental management plan for the construction and rehabilitation phase of the project. (Rand Water).

Instream Flow Requirements for Rivers in the King Sabata Dalindyebo Study Area (King Sabata, South Africa) June 2002 - July 2002. *Project member.* Ecological classification of rivers and estimates of instream Flow Requirements (IFR) with recommendations on Integrated Environmental Management procedures and ecological management categories for planning purposes. Involved for 1 person-month. (Department of Water Affairs and Forestry (DWAf)).

Kruger Mpumalanga International (KMI) Airport EMP Implementation (South Africa) July 2001 – August 2002. Monitoring the implementation of the Environmental Management Plan (EMP) for the construction of the KMI airport. Practical alteration of the EMP to suite location conditions at White River. Compilation of the Environmental Management Programme for the borrow pit used for construction activities.

Environmental Impact and Visual Assessment for Siemens Cellular Telecommunications Masts (South Africa) September 1999 – June 2002. *Durban Project Manager.* Environmental Impact (EIA) and Visual Assessments, public participation process, for the construction of cellular telecommunication masts (and permitting) involving both exemption and scoping with mitigation measures for 1600 potential cellular masts for the 3rd cellular licence in South Africa in Cape Town, Pretoria, Johannesburg and Durban, South Africa. Involved for 2 person-months. (Siemens Telecommunications).

Heidelberg Traffic Control Centre Operational Environmental Management Plan (South Africa) December 2001 - January 2002. Development of an Environmental Management Plan for the operational phase of the Traffic Control Centre Facility in Heidelberg, Gauteng. (National Roads Agency).

Port Nolloth 'Eco-Estate' EIA and Environmental Planning Framework (South Africa) July 2001 – August 2002. *Environmental Specialist.* Establishment of an environmental planning framework for an exclusive residential estate and boutique hotel. Incorporating an environmental impact assessment, and environmental management plan for the planning, design, construction, rehabilitation and operational phase in Port Nolloth, Northern Cape. (Aukwatowa (Pty) Ltd).

Environmental Management Framework (EMF) for Alexandra Township (Alexandra, South Africa) June 2001 – October 2001. *Environmental Specialist.* Alexandra Environmental Management Framework (EMF) developed on a GIS platform integrating impact management policy with spatial environmental priorities to seek sustainable development as part of the Presidential Alexandra Renewal Project. The EMF was developed at a scale of 1:5000 to indicate the required level of detail to fast-track environmental approvals and permitting procedures in areas with low sensitivity and included a generic environmental management plan (EMP) for construction in these areas. Involved for 1 person-month. (Gauteng Department of Agriculture, Conservation, Environment and Land Affairs).

Centurion Over-Arching Environmental Management Framework (South Africa) 2001. *Information Co-ordinator.* Development of an Environmental Management Framework (EMF) for phase 2 and 3 of Centurion. Involved for 1 person-month. (Seramas).

Centurion Environmental Impact Assessment (EIA) Review (South Africa) 2001. *Environmental Impact Assessment (EIA) Reviewer.* Environmental Impact Assessment Review. (Centurion Town Council).

Environmental Impact Assessment (EIA) for the Kanyamazane Water Treatment Works (South Africa) 2001. *Environmental Consultant.* Baseline, site and impact assessment for the pump station in the Crocodile River and Water Treatment Works in Kanyamazane, Mpumalanga Province. Involved for 2 person-months. (Mbombela City Council).

Mohale Weirs Environmental Training (Lesotho) October 2001. *Environmentalist.* Environmental training of engineers for the establishment of weirs within the Mohale dam catchment for the protection of the Maluti Minnow at Mohale. Involved for 1 person-month. (Lesotho Highlands Development Authority).

Kamiesberg Electrification Project Environmental Impact Assessment (South Africa) December 2000 - August 2001. *Environmentalist.* Environmental Impact Assessment was carried out for the provision of 3 phase electricity to 8 rural settlements in the Kamiesberg District of Namaqualand in the Northern Cape Province. (Kamiesberg Municipal Authority).

Mohale Footbridges Environmental Management Plan Implementation (Lesotho) September 2001 - November 2001. Monitoring of the implementation of the Environmental Management Plan for the construction of vehicular and foot access bridges in the Mohale dam basin. (Lesotho Highlands Development Authority).

Mohale Dam Feeder Roads Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) (Mohale, Lesotho) November 2000 - August 2001. **Project leader & Environmental Specialist** Environmental Impact Assessment (EIA) and Social Impact Assessment and review of the route alignments, and an Environmental Management Plan (EMP) for the construction phase of the feeder roads around the Mohale Dam, as part of Phase 1B of the Lesotho Highlands Water Transfer Scheme. Involved

for 3 person-months. (Lesotho Highlands Development Authority (LHDA)).

Environmental Impact Assessment (EIA) for Telkom Communications Mast, Olifantsfontein Exchange (South Africa) 2001. *Scoping Assessor.* Baseline, site and visual assessment for the Telkom Telecommunications Network, replacement of a mast at the Olifantsfontein Exchange, Johannesburg. Involved for 0.25 person-months. (Telkom).

Environmental Impact Assessment (EIA) for Telkom Communications Mast, Lanceria Exchange (South Africa) 2001. *Exemption Assessor.* Baseline, site and visual assessment for the Telkom Telecommunications Network, replacement of a mast at the Lanceria Exchange, Johannesburg. Involved for 0.25 person-months. (Telkom).

Environmental Impact Assessment (EIA) for Telkom Communications Mast, Moleleki Exchange (South Africa) 2001. *Exemption Assessor.* Baseline, site and visual assessment for the Telkom Telecommunications Network, replacement of a mast at the Moleleki Exchange, Johannesburg. Involved for 0.25 person-months. (Telkom).

Environmental Impact Assessment (EIA) for Rabali Weir, Northern Province (South Africa) 2001. *Environmental Consultant.* Baseline, site and impact assessment for the Rabali Weir in the Nzhelele River, Northern Province. Involved for 5 person-months. (Department of Water Affairs and Forestry).

EIA Review Experience

Primkop International Airport, Nelspruit, Mpumalanga Province (South Africa) 2000 - 2001. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* Responsibilities included facilitating meetings between the National Parks Board and applicants to resolve the noise impact on the wilderness areas of the Kruger National Park. Also responsible for reviewing the Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP).

Review of Environmental Impact Assessment at the Clarens to Suikerbosrand Water Pipeline, Storage Dam and Water Treatment Works (South Africa) 2000 - 2001. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* Involved a workshop with Gauteng Nature Conservation and reviewing of pre-feasibility study.

Review of Projects for the Gauteng Nature Conservation in all Gauteng Parks (South Africa) 2000 - 2001. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* Review of projects ranging from small tent camps to big tourist camps, such as Suikerbosrand Nature reserve upgrade of all accommodation.

Environmental Impact Assessment Review for the Cape Strengthening Project (South Africa) 1999 - 2001. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* The project involved the upgrade of small substations and a 400kV electrical line.

Reviews of Projects for the Free State Nature Conservation Section in all Free State Parks (South Africa) 1998 - 2001. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* Review of projects ranging from small tented camps to Echo Parks, such as Soetdoring Bush Camp and Echo Park.

Environmental Impact Assessment (EIA) Review for Small Powerlines in the Eastern Cape and Aasvoëlberg (Zastron) Areas (South Africa) 1998 - 2001. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* The reviews were conducted in terms of the Eskom agreement.

Review of Projects for the KwaZulu Natal Nature Conservation Service in all KwaZulu Natal Parks (South Africa) 1998 - 2001. *Reviewer of EIAs with the Department of Environmental Affairs and Tourism.* Responsibilities included attending monthly meetings with the KwaZulu-Natal Nature Conservation Service (NCS) and the KwaZulu-Natal Department of Environmental Affairs. Review of project ranges from roads to tourism camps such as Didima Camp, Giants Castle camp, at the Royal Natal hotel site and Centenary game capture and information centre.

N4 Platinum Toll Highway (South Africa) 1998 - 2001. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* A controversial project, which needed workshops with key role players as well as appellants throughout the process. A good understanding of the process and discussions with the National Roads Agency, Consultant and the three provincial Departments.

Review of Projects for the KwaZulu Natal Nature Conservation Service in all Kwazulu-Natal Parks (South Africa) 1998 - 2001. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* Responsibilities included attending monthly meetings with the KwaZulu-Natal Nature Conservation Service (NCS) and KwaZulu-Natal Department of Environmental Affairs. Review of projects ranges from roads to tourist camps such as Didima Camp, Giants Castle camp, at the Royal Natal hotel site and Centenary game capture and an Information Centre.

Review of Projects for the Cape Nature Conservation Board in al Western Cape Parks (South Africa) 1998 - 2001. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* Review of projects ranging from roads to tourist camps such as the new Whale hiking trail in De Goede Hoop Nature Reserve.

Upgrade and Construction of the SDI Road from Hluhluwe to Phelendaba through the World Heritage Site (South Africa) 1999 - 2000. *Reviewer of Environmental Impact Assessments (EIAs).* Review and determination of special conditions for approval of the activity since it crossed the Greater St Lucia Wetland Park.

Skuifraam Dam and Skuifraam Supplementary Scheme Environmental Impact Assessment (EIA) Review (South Africa) 1998 - 2000. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* Responsible for facilitating meetings between the South African Department of Water Affairs and Forestry (DWAF) and the Department of Environmental Affairs and Tourism (DEAT). Also responsible for reviewing and approving the dam, as well as investigating all the appeals received and reported to the Ministers of DWAF and DEAT.

Review of Environmental Impact Assessment (EIA) for Flow Gauging Weirs at Laing Dam and the Bridle Drift Weir (South Africa) 1999 - 2000. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* Review and regular meetings with the South African Department of Water Affairs and Forestry (DWAF).

Review of Environmental Impact Assessment (EIA) for Bulk Services Provision in the Hammanskraal and Temba Area (South Africa) 1998 - 2000. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* Responsible for reviewing the Environmental Impact Assessment and Management Plan.

Telecommunication Towers in the South Peninsula National Park (South Africa) 2000. *Reviewer of EIAs with Department of Environmental Affairs And Tourism.* Meetings with the National Parks Board and review of the Environmental Impact Assessments (EIAs) as well as Environmental Management Plans (EMPs).

Upgrading of Sewage Treatment Works at the South African Police Services Dog Breeding Unit, Roodeplaat as well as at the Baberton Prison Farm (South Africa) 1999. *Reviewer of EIAs with Department of Environmental Affairs and Tourism.* Reviews of sewage systems and Environmental Management Plans (EMPs).

EDUCATION

1993 : B.L. Arch, University of Pretoria, South Africa

CAREER ENHANCING COURSES

2008 : Planet Introduction to GIS.
2004 : Introduction to the Process, Principles and Application of SEA, CSIR, South Africa
1999 : Principles of Environmental Management, University of Cape Town, South Africa
1999 : EIA review course, Environmental Protection Agency, USA
1998 : Environmental Law, University of Potchefstroom, South Africa
1998 : Environmental Management Systems, University of Potchefstroom, South Africa
1998 : Environmental Impact Assessment, University of Potchefstroom, South Africa
1998 : Environmental Auditing, University of Potchefstroom, South Africa

AWARDS

Award of Merit for Excellence in Landscape Architecture for the Centurion Environmental Management Framework from the Institute for Landscape Architects in South Africa (ILASA), 2003

PROFESSIONAL AFFILIATIONS

Member, Birdlife South Africa
Member, Institute of Landscape Architects, South Africa
Member, IAIA

LANGUAGES

	Reading	Writing	Speaking
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Excellent	Excellent
