

## **CURRICULUM VITAE**

### **JO-ANNE THOMAS**

*Profession* : *Environmental Consultant*  
*Specialisation* : *Environmental Management; Strategic environmental advice; Environmental compliance advice & monitoring; Environmental Impact Assessments; Policy, strategy & guideline formulation; Project Management; General Ecology*  
*Years experience* : *12 years in the environmental field*

#### **KEY RESPONSIBILITIES**

Provide technical input for projects in the environmental management field, specialising in Strategic Environmental Advice, Environmental Impact Assessment studies, environmental permitting, public participation, Environmental Management Plans and Programmes, environmental policy, strategy and guideline formulation, and integrated environmental management. Key focus on integration of the specialist environmental studies and findings into larger engineering-based projects, strategic assessment, and providing practical and achievable environmental management solutions and mitigation measures. Responsibilities for environmental studies include project management; review and manipulation of data; identification and assessment of potential negative environmental impacts and benefits; review of specialist studies; and the identification of mitigation measures. Compilation of the reports for environmental studies is in accordance with all relevant environmental legislation.

Undertaking of numerous environmental management studies has resulted in a good working knowledge of environmental legislation and policy requirements. Recent projects have been undertaken for both the public- and private-sector, including compliance advice and monitoring, electricity generation and transmission projects, various types of linear developments (such as National Road, local roads and power lines), waste management projects (landfills), mining rights and permits, policy, strategy and guideline development, as well as general environmental planning, development and management.

#### **SKILLS BASE AND CORE COMPETENCIES**

- Project management for a range of projects
- Identification and assessment of potential negative environmental impacts and benefits through the review and manipulation of data and specialist studies
- Identification of practical and achievable mitigation and management measures and the development of appropriate management plans
- Compilation of environmental reports in accordance with relevant environmental legislative requirements
- External and peer review of environmental reports & compliance advice and monitoring
- Formulation of environmental policies, strategies and guidelines
- Strategic and regional assessments; pre-feasibility & site selection
- Public participation processes for a variety of projects
- Strategic environmental advice to a wide variety of clients both in the public and private sectors
- Working knowledge of environmental planning processes, policies, regulatory frameworks and legislation

## **EDUCATION AND PROFESSIONAL STATUS**

- 1993: B.Sc Earth Sciences, University of the Witwatersrand, Johannesburg.
- 1994: B.Sc (Hons) in Botany, University of the Witwatersrand, Johannesburg.
- 1996: M.Sc in Botany, University of the Witwatersrand, Johannesburg.
- 1998: Environmental Impact Assessment, Potchefstroom University.
- 2001: Environmental Law, Morgan University.
- Professional Natural Scientist (Registration No 400024/00).

## **EMPLOYMENT**

- Current: Director of Savannah Environmental (Pty) Ltd. Independent specialist environmental consultant.
- October 1997 - November 2005: Bohlweki Environmental (Pty) Ltd: Senior Environmental Scientist; Environmental Management and Project Management.
- January - July 1997: Junior Science Teacher, Sutherland High School, Pretoria.

## **PROJECT EXPERIENCE**

### ***Electricity Sector Projects: Wind Energy***

- Project manager for the proposed Klipheuwel/Dassiesfontein wind energy facility and associated infrastructure at a site within the Overberg area of the Western Cape (for BioTherm Energy)
- Project manager for the proposed Suurplaat wind energy facility and associated infrastructure at a site within the Western Cape (for Moyeng Energy)
- Project manager for the proposed West Coast One wind energy facility and associated infrastructure at a site within the Western Cape (for Moyeng Energy)
- Project manager for the proposed Rheboksfontein wind energy facility and associated infrastructure at a site within the Western Cape (for Moyeng Energy)
- Project manager for the proposed EXXARO West Coast wind energy facility and associated infrastructure at a site within the Western Cape (for EXXARO Resources)
- Project manager for the proposed Oyster Bay wind energy facility, Eastern Cape Province (for Renewable Energy Resources Southern Africa)
- Project manager for the proposed Spitskop Bay wind energy facility, Eastern Cape Province (for Renewable Energy Resources Southern Africa)
- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site within the Western Cape (for Eskom Generation)
- EIA and EMP for the proposed wind energy facility and associated infrastructure at a site near Hopefield, Western Cape Province (for Umoya Energy)

### ***Electricity Sector Projects: Solar Energy***

- Project manager for the EIA and EMP for the proposed Waterberg PV plant, Limpopo Province (for Thupela Energy)
- Project manager for the EIA and EMP for the proposed Project Ilanga (125MW CSP facility) near Upington, Northern Cape Province (for Ilangethu Energy)
- Project manager for the EIA and EMP for PV sites within the Northern cape Province (for MedEnergy Global)
- Project manager for the Basic Assessment and EMP for PV sites within 4 ACSA airports within South Africa (for ACSA PV)
- Project manager for the Basic Assessment and EMP for a PV site near Rustenburg, North-West Province (for Momentous Energy)

### ***Electricity Sector Projects: Eskom***

- Project manager for the EIA and EMP for the proposed Mokopane Integration Project, Limpopo Province (for Eskom Transmission)
- Project manager for the proposed transmission lines from the Koeberg-2 Nuclear Power Station site, Western Cape Province (for Eskom Transmission)
- Project manager for the proposed Tshwane strengthening project, Phase 1, Gauteng Province (for Eskom Transmission)
- Project manager for the EIA and EMP for the proposed Kyalami Strengthening Project, Gauteng Province (for Eskom Transmission)
- Project manager for the EIA and EMP for the proposed Steelpoort Integration Project, Limpopo Province (for Eskom Transmission)
- Project manager for the EIA and EMP for the proposed conversion of the existing Open Cycle Gas Turbine (OCGT) Ankerlig Power Station (located in Atlantis Industria) to a Combined Cycle Gas Turbine (CCGT) power station, and the associated 400 kV transmission power line between Ankerlig Power Station and the Omega Substation (for Eskom Generation)
- Project manager for the EIA and EMP for the proposed conversion of the existing Open Cycle Gas Turbine (OCGT) Gourikwa Power Station (located near Mossel Bay) to a Combined Cycle Gas Turbine (CCGT) power station, and the associated 400 kV transmission power line between Gourikwa Power Station and the Proteus Substation (for Eskom Generation)
- Basic Assessment for proposed wind monitoring masts on a site north of Koekenaap, Western Cape Province (for EXXARO Resources)
- Basic Assessment for proposed wind monitoring masts on a site in the Overberg area, Western Cape Province (for BioTherm Energy)
- Basic Assessment for proposed wind monitoring masts on a site near Beaufort West, Western Cape Province (for Umoya Energy)
- Basic Assessment for proposed wind monitoring masts on a site near Laingsburg, Western Cape Province (for Umoya Energy)

### ***Compliance Monitoring***

- ECO compliance monitoring for the construction of the De Hoop Dam and the deviation of the R555, Limpopo Province
- Project manager – ECO compliance monitoring for the rehabilitation of Blaauwpan Dam, Gauteng Province
- Project manager – ECO compliance monitoring for the expansion of Waterval WCW, Gauteng Province
- Project manager - ECO compliance monitoring for the Mine Water Recovery Project at Duvha Power Station, Mpumalanga Province

### ***Strategic and Regional Assessments***

- Strategic Assessment for the location of wind energy facilities within the Western Cape Province (for Western Cape Department of Environmental Affairs and Development Planning)
- Regional Assessments for wind energy developments within identified areas in the Overberg Area of the Western Cape Province (for BioTherm Energy)
- Regional Assessment for wind energy developments within an identified area in the Sutherland Area of the Northern and Western Cape Province (for Investec Bank Limited)
- Regional Assessment for wind energy developments within an identified area on the West Coast of the Western Cape Province (for Investec Bank Limited)
- Regional Assessment for wind energy developments within an identified area on the West Coast of the Western Cape Province (for Eskom Holdings Limited)

### ***Environmental Management Tools***

- Review the effectiveness and efficiency of the environmental impact management (EIA) system in South Africa on behalf of the Department of Environmental Affairs and Tourism
- Development of a comprehensive site-specific EMP for the construction and operation of the Eskom Braamhoek Integration Project, Free State and KwaZulu-Natal Provinces
- Compilation of Provincial Guidelines for off-road routes within the Western Cape Province
- Water use permit applications for water use at Tiffindell Ski Resort, Eastern Cape Province
- Water use permit applications for various properties within the Olifants West Game Reserve, Limpopo Province
- Environmental Risk Analysis for Salbro Property Holdings, Gauteng Province
- Project integration and compilation of a Strategy for Sustainable Development for Gauteng Province
- Advice regarding environmental compliance of existing and future development at Tiffindell Ski, Eastern Cape Province
- Advice regarding environmental compliance at Salberg factory, Gauteng Province

### ***Peer Review***

- Review of EIAs submitted in terms of the ECA for the Northern Cape Department of Tourism, Environment and Conservation, including:
  - \* EIA for a new wastewater treatment works in Warrenton
  - \* EIA for chicken layer houses in Kimberley
  - \* EIAs for the upgrading of petrol stations in Kimberley
  - \* EIA for a new up-market residential development in Kathu
  - \* EIA for residential development in Kimberley
- Review of EIA and EMP for the proposed Waterfall Wedge development, Gauteng Province

### ***Infrastructure Projects***

- Project manager for the EIA and EMP for the proposed bridge across the Ngotwane River located on the border of South Africa and Botswana

### ***Mining Sector Projects***

- Environmental Impact Assessment and Environmental Management Programme in terms of the MPRDA for the proposed Elitheni Coal Mine near Indwe, Eastern Cape Province
- Environmental Management Programmes for three borrow pits associated with the proposed Groot Letaba River Development Project, Limpopo Province

### ***Water resources projects***

- Project manager for the EIA and EMP for the proposed modification of the existing Hartebeestfontein Water Care Works, Gauteng Province (for ERWAT)
- Project manager for the EIA and EMP for the proposed expansion of the existing Welgedacht Water Care Works, Gauteng Province (for ERWAT)

*Projects undertaken on behalf of Bohlweki Environmental include:*

### ***Specialist projects***

- Development of an Environmental Policy for the Ekurhuleni Metropolitan Municipality
- Development of an Integrated Environmental Policy for the City of Tshwane Metropolitan Municipality Environmental Opportunities and Constraints Assessment for the Wonderboom Airport
- Review of the State of the Environment Report for the North West Province

### ***Transport sector projects***

- Environmental Impact Assessment and Environmental Management Plan for the proposed N2 Wild Coast Toll Road between East London (Eastern Cape) and Durban (KwaZulu-Natal)
- Environmental input to the Denneboom Local Integrated Transport Plan
- Environmental input to the Ekurhuleni transportation corridors study
- Environmental Impact Assessment for the proposed Platinum Highway from Warmbaths via Pretoria to Skilpadhek (on the South Africa-Botswana border), including obtaining all environmental permits required.
- Environmental Scoping Study and public participation process for the upgrading of Provincial Main Road 100 between the intersection with Main Road 521 and Ndwedwe
- Environmental Management Plan for repairs of portions of the N3 and N1, Gauteng
- Environmental Scoping Study and public participation process for the Kingsway Relief Road in Maseru, Lesotho

### ***Electricity Sector projects***

- Project manager for the undertaking of an EIA and compilation of an EMP for the proposed Open Cycle Gas Turbine (OCGT) Power Station and associated 400 kV Transmission lines and substation at Atlantis, Western Cape Province
- Environmental Scoping Study for a new coal-fired power station in the Lephalale area, Limpopo Province
- Project manager for the undertaking of Environmental Scoping Study and compilation of an Environmental Management Plan for various 132 kV Sub-Transmission lines and substations within the Mpumalanga Province
- Project manager for the undertaking of an EIA for the proposed 765 kV Transmission line between the existing Hydra Substation (near De Aar) and the proposed Gamma Substation (near Victoria West), Northern Cape Province
- Detailed Environmental Scoping Study and public participation for the proposed Capacity Increase Project at Arnot Power Station, Mpumalanga Province
- Project manager for the undertaking of an Environmental Scoping Study and EMP for the proposed 132 kV sub-Transmission line between the GaRankuwa and Dinaledi substations, North West Province

- EIA & public participation for the proposed new Ikaros Substation and associated 400 kV Transmission line infrastructure, North West Province
- Environmental Scoping Study public participation for the Establishment of Eskom Infrastructure for Power Supply to the C-Cut Development at Premier Mine, Cullinan, Gauteng Province
- EIA & public participation for the proposed 3<sup>rd</sup> 400 kV Transmission line between the Poseidon and Grassridge Substations in the Eastern Cape Province
- EIA & public participation for the proposed new 400 kV Transmission line between Matimba Substation (near Lephalale) and Witkop Substation (near Polokwane), Limpopo Province
- Environmental Impact Study and public participation for the proposed 2<sup>nd</sup> 400 kV Transmission line between the Grassridge Substation and the Poseidon Substation in the Eastern Cape.
- Public Participation Process for the proposed Return-to-Service of the Camden Power Station, Mpumalanga Province
- Detailed Environmental Scoping Study and public participation for the Breyten Strengthening Project: proposed new Breyten Substation and associated 88 kV Distribution line, Mpumalanga Province
- Environmental Pre-Scoping Study for the proposed Concentrating Solar Plant, in the Northern Cape Province
- Environmental Impact Assessment public participation for the proposed new nine 132 kV power lines between the Grassridge Substation and the Coega Industrial Development Zone, Eastern Cape Province

### ***Pipelines***

- Environmental Impact Assessment for the proposed Petronet New Multi-Products Pipeline (NMPP) between Durban and Gauteng Province
- Exemption application for the construction of a gas pipeline between Majuba Mine and Majuba Power Station, Mpumalanga Province.
- Exemption application for the construction of an emergency water supply pipeline from Mamelodi to Ekandustria via Cullinan, Gauteng Province.
- Environmental Scoping Study for the installation of a new water supply pipeline from Centurion to Diepsloot, Gauteng Province.

### ***EIAs for Technology projects***

- Environmental Impact Assessment for the proposed Alternative Fuels and Resources Project at Alpha's ULCO Plant near Kimberley in the Northern Cape Province
- Environmental Impact Assessment for the proposed Alternative Fuels and Resources Project at Dudfield Plant, North West Province
- Environmental Impact Assessment for the proposed Blending Platform to be established within the Gauteng Province
- Investigation of possible alternative Scrap tyre collection and disposal strategies in Gauteng, South Africa

### ***Mining sector projects***

- Environmental Management Programme Report (EMPR) for the proposed small-scale kaolin clay mine near Ndwedwe, KwaZulu-Natal Province
- Environmental Management Programme Report (EMPR) for prospecting activities within the Premier Mine Game Farm, Cullinan for De Beers Consolidated Mines Limited
- Environmental Management Plan for the Proposed C-Cut Development at Premier Mine, Cullinan
- Environmental Management Programme Report for the Proposed C-Cut Development at Premier

Mine, Cullinan

- Environmental Impact Assessment and public participation process for the Proposed C-Cut Development at Premier Mine, Cullinan

***Development projects***

- A detailed Environmental Scoping Study and public participation process for the Thaba ya Batswana Development on portions of the Farm Rietvlei 101 IR, Gauteng
- Environmental Scoping Report and public participation process for the development of a Community Safety Centre in Khutsong-South, Carletonville

***Water resources projects***

- A detailed Environmental Impact Assessment of new regional water care infrastructure in the DD5A sub-drainage district in Eastern Gauteng (adjacent to the Blesbokspruit Ramsar Site) for the East Rand Water Care Company (ERWAT)

## **CURRICULUM VITAE**

### **TAMMY KRUGER**

*Profession* : *Environmental Consultant*

*Specialisation* : *Environmental Science*

*Years experience* : *5*

#### **KEY RESPONSIBILITIES**

- Basic Assessment Reporting
- Environmental Impact Assessment Reporting
- Public participation processes for a variety of projects

#### **SKILLS BASE AND CORE COMPETENCIES**

- Conducting and management of Environmental Impact Assessments and other environmental investigations according to the current legislation
- Interpreting and applying Environmental Legislation
- Development, planning, coordinating and facilitating Public Participation Process
- Client and authority liaison
- Compiling, reviewing and approving project proposals and environmental reports
- Developing Environmental Management Plans
- Provision of ongoing assistance and support to the Directors and the environmental and engineering teams

#### **TERTIARY EDUCATION**

- 2002 – 2004: BSc (Zoology), University of the Witwatersrand
- 2005: BSc Honours (Zoology), University of the Witwatersrand
- 2007 – 2010: MSc (Environmental Science), University of the Witwatersrand

#### **EMPLOYMENT**

- November 2009 - present: Savannah Environmental (Pty) Ltd - Environmental Consultant
- October 2007 - September 2009: Prime Resources (Pty) Ltd - Environmental Consultant
- November 2006 - April 2007: Endangered Wildlife Trust - Field Researcher

#### **RELEVANT PROJECT EXPERIENCE**

- 2009: Basic Assessment, proposed wind monitoring mast on a site near Caledon, Western Cape Province, South African Investment and Trust Company Limited
- 2009: Basic Assessment, proposed wind monitoring mast on a site near Tulbagh, Western Cape Province, South African Investment and Trust Company Limited
- 2009: Basic Assessment, proposed wind monitoring mast on a site near Worcester, Western Cape Province, South African Investment and Trust Company Limited
- 2009: Basic Assessment, proposed Riverbank wind monitoring mast on a site near Wesley, Eastern Cape Province, Just Energy
- 2009: Basic Assessment, proposed Gouda Wind Monitoring Mast on a site near Gouda, Western Cape Province, VentuSA Energy
- 2009: Basic Assessment, proposed Happy Valley Wind Monitoring Mast on a site near Humansdorp, Eastern Cape Province, VentuSA Energy
- 2009: Basic Assessment, proposed Deep River Wind Monitoring Mast on a site near Humansdorp, Eastern Cape Province, VentuSA Energy
- 2010/2011: EIA, proposed Riverbank Wind Energy Facility on a site near Wesley, Eastern

Cape Province, Just Energy

- 2010/2011: EIA, proposed Gouda Wind Energy Facility on a site near Gouda, Western Cape Province, VentuSA Energy
- 2010/2011: EIA, proposed Kathu Solar Energy Facility on a site near Kathu, Northern Cape Province, Renewable Energy Investments South Africa
- 2010/2011: EIA, proposed Sishen Solar Energy Facility on a site near Kathu, Northern Cape Province, VentuSA Energy
- 2010/2011: EIA, proposed Wag'nbiekiespan Solar Energy Facility on a site near Boshof, Northern Cape Province, VentuSA Energy
- 2010/2011: EIA, proposed Pofadder Solar Energy Facility on a site near Pofadder, Northern Cape Province, Abengoa Solar South Africa
- 2010/2011: EIA, proposed Upington Solar Energy Facility on a site near Upington, Northern Cape Province, Abengoa Solar South Africa
- 2010/2011: EIA, proposed Waterberg Photovoltaic Plant on a site near Vaalwater, Limpopo Province, Thupela Energy
- 2010/2011: EIA, proposed Ilanga Solar Thermal Power Plant on a site near Upington, Northern Cape Province, Ilangalethu
- 2011: Basic Assessment, proposed RustMO1 PV Plant on a site near Buffelspoort, North West Province, Momentous Energy
- 2011: Basic Assessment, proposed ACSA PV Photovoltaic Installation, Bloemfontein Airport, Free State Province, The Power Company
- 2011: Basic Assessment, proposed ACSA PV Photovoltaic Installation, Kimberley Airport, Northern Cape Province, The Power Company
- 2011: Basic Assessment, proposed ACSA PV Photovoltaic Installation, Upington Airport, Northern Cape Province, The Power Company
- 2011: Basic Assessment, proposed ACSA PV Photovoltaic Installation, OR Tambo Airport, Gauteng Province, The Power Company
- 2011: Basic Assessment, proposed Photovoltaic Facility on a site near Kakamas, Northern Cape Province, INCA Kakamas Solar
- 2011: EIA, proposed Project Ofir ZX Photovoltaic Plant on a site near Keimoes, Northern Cape Province, 28 Degrees Energy
- 2011: EIA, proposed Project S-Kol Photovoltaic Plant on a site near Keimoes, Northern Cape Province, 28 Degrees Energy
- 2011: EIA, proposed Project Sonnenberg Photovoltaic Plant on a site near Keimoes, Northern Cape Province, 28 Degrees Energy
- 2011: EIA, proposed ACED De Aar Solar Energy Facility on a site east of De Aar , Northern Cape Province, ACED De Aar (Pty) Ltd
- 2011: Basic Assessment, proposed Exxaro Photovoltaic Plant, Limpopo Province, Exxaro Resources Limited
- 2011: Basic Assessment, proposed Arnot Power Station Biomass Demonstration Facility, Mpumalanga Province, Eskom Holdings Limited
- 2011: EIA, proposed Walker Bay Wind Energy Facility on a site near Stanford, Western Cape Province, Renewable Energy Systems Southern Africa (Pty) Ltd
- 2011: EIA, proposed Olifants River Wind Energy Facility on a site near Lutzville, Western Cape Province, South African Renewable Green Energy (Pty) Ltd
- 2011: Basic Assessment, proposed Tshwane Afrko Solar Park, Gauteng Province, AFRKO Energy

## **CURRICULUM VITAE**

### **DAVID HOARE**

*Profession* : *Ecologist*

*Specialisation* : *Ecology*

*Years experience* : *15*

#### **SKILLS BASE AND CORE COMPETENCIES**

- Vegetation description and ecology, primarily in grasslands, thicket, savanna, fynbos, coastal systems and wetlands
- Plant biodiversity and threatened species surveys
- Fauna threatened species assessments
- Remote sensing and mapping of vegetation
- Specialist environmental impact assessments

#### **TERTIARY EDUCATION**

- 1991 – 1993: BSc (Botany, Zoology), Rhodes University
- 1994: BSc Hons (Botany), Rhodes University
- 1995 - 1997: MSc (Botany), University of Pretoria
- 2001 – 2010 PhD (Botany), Nelson Mandela Metropolitan University

#### **EMPLOYMENT HISTORY**

- February 1998 - November 2004: Researcher, Agricultural Research Council, Range & Forage Institute
- January 2009 - June 2009: Lecturer, University of Pretoria
- December 2004 – present: Specialist consultant, David Hoare Consulting cc

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- Specialist ecological study on the potential impacts of the proposed Upington Solar Energy Facility Project, Upington, 2010, Northern Cape
- Specialist ecological study on the potential impacts of the proposed Riverbank Wind Energy Facility Project, Humansdorp, 2010, Eastern Cape
- Specialist ecological study on the potential impacts of the proposed Wag'nbietjiespan Solar Energy Facility Project, Boshoff, 2010, Free State
- Specialist ecological study on the potential impacts of the proposed Pofadder Solar Energy Facility Project, Pofadder, 2010, Northern Cape
- Specialist fauna study on potential impacts of the proposed Klipheuwel / Dassiesfontein Wind Energy Facility Project, Caledon, 2010, Western Cape
- Specialist ecological study on the potential impacts of the proposed Kathu and Sishen Solar Energy Facility Project, Kathu, 2010, Northern Cape
- Specialist ecological study on the potential impacts of the proposed Happy Valley Wind Energy Facility Project, Humansdorp, 2010, Eastern Cape
- Specialist fauna study on potential impacts of the proposed Exxaro West Coast Wind Energy Facility Project, Bitterfontein, 2010, Western Cape
- Specialist fauna study on potential impacts of the proposed West Coast One Wind Energy Facility Project, Vredenburg, 2010, Western Cape

- Specialist fauna study on potential impacts of the proposed Rheboksfontein Wind Energy Facility Project, Darling, 2010, Western Cape
- Specialist ecological study on the potential impacts of the proposed Suurplaat Wind Energy Facility Project, Sutherland, 2010, Western Cape

## **CURRICULUM VITAE**

### **JACO VAN DER WALT**

*Profession* : *Archaeologist*

*Specialisation* : *Cultural Resource Management and Iron Age Archaeology*

*Work experience* : *10 years*

#### **SKILLS BASE AND CORE COMPETENCIES**

- Archaeological Impact Assessments
- Heritage Impact Assessments
- Heritage Management Plans
- Archaeological research projects
- Cultural resource management
- Phase II cultural resource management projects: archaeological excavations
- Grave relocation
- Project Management

#### **TERTIARY EDUCATION**

- 2001, BA Archaeology (Cultural Heritage Tourism), University of Pretoria (SA)
- 2002, BA Archaeology (Hons) , University of Witwatersrand (SA)
- Present, Masters Archaeology, University of Witwatersrand (SA)

#### **EMPLOYMENT HISTORY**

- 2011 – Present: Founder and owner of Heritage Contracts and Archaeological Consulting CC. 2007 – 2010: CRM Archaeologist, Managed the Heritage Contracts Unit at the University of the Witwatersrand
- 2005 - 2007: CRM Archaeologist, Director of Matakoma Heritage Consultants
- 2004: Technical Assistant, Department of Anatomy University of Pretoria
- 2003: Archaeologist, Mapungubwe World Heritage Site Archaeological Rehabilitation Project
- 2001 - 2002: CRM Archaeologists, For R & R Cultural Resource Consultants, Polokwane
- 2000: Museum Assistant, Fort Klapperkop, Pretoria

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- Archaeological Impact Assessment for the Chronimet Underground Mine, Opencast mine, process plant, Amandelbult, Limpopo Province.
- Archaeological Impact Assessment For The Proposed Onderstepoort Ext 25 Mixed Use Development On Portion 116 Of The Farm De Onderstepoort 300 Jr, Pretoria, Gauteng Province
- Archaeological Impact Assessment for the Simmerpan Strengthening Project - Powerlines And New Substation, Johannesburg, Gauteng Province
- Archaeological And Palaeontological Impact Assessment For The Updated EMP for Trans Hex Mining Operations, Richtersveld, Northern Cape
- Archaeological Impact Assessment for Sasol's project Mafuta, Lephalale, Limpopo Province.
- Archaeology and Cultural Heritage Report for the proposed Estima Coal Mine, Mozambique
- Archaeological Impact Assessment. Proposed Sekampaneng Bulkwater Pipeline, Sekampaneng Township, Hammanskraal, Gauteng Province
- Archaeological /Cultural Heritage Statement Report for the Proposed Mkuju River Uranium Project, Tanzania
- Archaeological Impact Assessment for Todal Mining, Bokai Platinum Project, , Gweru, Zimbabwe
- Archaeological and Heritage Statement for the Proposed Lg5 Opencast Mining Area, North West Province
- Archaeological Impact Assessment Proposed Cot Wildebees 400/132 Kv Substation And Loop In Lines, On Portions Of The Farms Pienaarspoort 338 & 339 JR And Hatherley 331 JR, Gauteng Province
- Field supervisor at Mapungubwe (World Heritage Site) Archaeological Rehabilitation project
- Field Director for Iron Age mitigation at Gardner Ross Country and Golf Estate.
- Field Director for Iron Age mitigation for chrome Mining by Herculite Ferrochrome, North West Province.

- Field Director phase 2 documentation for The Heads Trust, Heritage Assessment, and monitoring for Lydenburg Ext 38 housing development, Lydenburg, Mpumalanga, principle investigator Prof. T. Huffman
- Field Director phase 2 documentation for Sterkspruit housing development, Lydenburg, Mpumalanga.
- Field Director Early Iron Age mitigation at Apel extension 1 principle investigator A. Pelsler
- Field Director Middle Iron Age Mitigation For Wesizwe Platinum mining, principle investigator.
- Field Director Phase 2 documentation of Historical Fort Howard, Lydenburg for Thaba Tshewu Municipality.
- Field Director Phase 2 documentation of Khoni Iron Age Settlement Lydenburg.
- Field Director Phase 2 documentation of Historical and Late Iron Age sites, Wentzelrust industrial development, Shoshanguve, Gauteng.
- Field Director for the Archaeological Mitigation For Booyendal Platinum Mine, Steelpoort, Limpopo Province.
- Monitoring of heritage sites affected by the ARUP Transnet Multipurpose Pipeline.
- Field Director for the Phase 2 mapping of a late Iron Age site located on the farm Kameelbult, Zeerust, North West Province.
- Field Director for the Phase 2 surface sampling of Stone Age sites effected by the Medupi – Spitskop Power Line, Limpopo Province
- Rescue excavation re-interment of 253 graves at Douglas Colliery Mpumalanga. Principle Investigator A. Pelsler.
- Rescue excavation and re-interment of 103 graves for Mafube Collieries, Middelburg Mpumalanga. Principle Investigator A. Pelsler
- Rescue excavation and re-interment of 102 graves for Exxaro Coal Mine , Belfast, Mpumalanga. Principle Investigator A. Pelsler.
- Rescue excavation of a Late Iron Age grave at Erasmus Castle, Pretoria, Gauteng Province.

**CURRICULUM VITAE**  
**JOHAN VAN DER WAALS**

*Profession* : *Soil Scientist*

*Years experience* : *13 years*

**TERTIARY EDUCATION**

- 1995: BSc (Soil Science and Botany), Potchefstroom University
- 1999: BSc Hons (Soil Science and Plant Nutrition), University of Pretoria
- 2001: MSc (Soil Science and Plant Nutrition), University of Pretoria
- 2006: PhD (Soil Science), University of Pretoria

**PROFESSIONAL REGISTRATION**

- Soil Science Society of South Africa
- South African Soil Surveyors Organisation
- South African Council for Natural Scientific Professions – Reg. no. 400160/08

**EMPLOYMENT HISTORY**

- 1999 – 2007: Department of Plant Production and Soil Science, University of Pretoria
- Establishment of Terra Soil Science CC

**SELECTED RELEVANT PROJECT EXPERIENCE**

- Van der Waals, J.H., & Claassens, A.S. 2002. Accurate lime recommendations under South African conditions. *Commun. Soil Sci. Plant Anal.*, 33(15-18), p 3059-3074.
- Van der Waals, J.H., Snyman, H.G. & Claassens A.S. 2005. Increase in metal extractability after liming of sacrificial sewage sludge disposal soils. *Water SA* 31(2) p. 271-273.
- Jackson, C.R., Lubbe, N.R., Robertson, M.P., Setsaas, T.H., Van der Waals, J. & Bennett, N.C. 2008. Soil properties and the distribution of the endangered Juliana's Golden Mole. *Journal of Zoology* 274(2008) 13-17.
- Van der Waals, J.H., Van der Merwe, C. & Erdmann, R. 2007. Detail assessment of metal distribution in polluted soil – a South African case study. In Fourie, A., Tibbett, M. & Wiertz, J. (Eds.), *Proceedings of the Second International Seminar on Mine Closure, Santiago, Chile, 16-19 October, 2007.* pp 8 5-820.
- Snyman, H.G. & van der Waals, J.H. 2004. Laboratory and field scale evaluation of agricultural use of sewage sludge. WRC Report No. 1210/1/04. ISBN: 1- 77005-230-5, Water Research Commission, Pretoria.

**CURRICULUM VITAE**  
**LOURENS MARTINUS DU PLESSIS**

*Profession* : *Geographer*  
*Specialisation* : *Environmental GIS*  
*Years experience* : *17 years*

**SKILLS BASE AND CORE COMPETENCIES**

- The application of computerised systems in environmental planning and management, impact assessments and spatial modelling
- Data Sourcing and Acquisition, data capture, data evaluation, data conversion & transfer, GIS database development, implementation & maintenance, spatial analysis (visibility, slope, aspect, etc.), digital elevation modelling, terrain evaluation, image processing, impact assessment and impact management, environmental management, decision support systems interface development, map production, display, queries & reporting.

**TERTIARY EDUCATION**

- 1993: BA (Geography and Anthropology), University of Pretoria

**EMPLOYMENT HISTORY**

- April 1990 – September 1997: Project Manager GisLAB CC
- October 1997 – October 1999 Project Manager, GISBS
- November 1999 – present: Director, MetroGIS (Pty) Ltd

**SELECTED RELEVANT PROJECT EXPERIENCE**

- Visual Impact Assessments and viewshed analyses for various types of developments, including telecommunication structures, mining activities, renewable energy facilities and tourism accommodation in National Parks and other environmentally sensitive areas, some recent or current projects include:
- Environmental Management Frameworks (EMF) for South Africa at a provincial (1:250 000) scale.
- Spatial Development Initiatives (SDI) for Lubombo SDI, Coega Industrial Development Zone, West Coast SDI and Wild Coast SDI.
- EMF's (Digital Decision Support Systems) at local council scale for Hennops River, Centurion, Windhoek, the Alexandra Renewal Project, Siyanda District Municipal area, Ekurhuleni, etc.
- Gauteng Open Space Project (GOSP) GIS-based open space planning for the Gauteng Province.
- Gauteng Communication Strategy (GAUCONS) environmental control zones to regulate the construction of telecommunication masts.
- SEA (Strategic Environmental Assessments) for Faerie Glen Nature Reserve and Rustenburg Municipality (Priority Area 1).
- Environmental Impact Assessments (EIA) the utilisation of GIS based systems to determine and manage environmental impacts. Various projects all over South Africa.
- GIS services for the Limpopo National Park (Trans-frontier Peace Park) in Mozambique.
- Gauteng Supplementation and Implementation of EIA Regulations Project.

## **CURRICULUM VITAE**

### **TONY BARBOUR**

*Profession* : *Independent Environmental Consultant*  
*Specialisation* : *Social Impact Assessment Specialist*  
*Years experience* : *>12 years*

#### **SKILLS BASE AND CORE COMPETENCIES**

- Environmental management, including project management, proposal writing, preparation, review and editing of reports and documents, environmental planning and management. Areas of competence include Environmental impact assessments, strategic environmental assessment; waste management, environmental economics, facilitation, public participation and reviews
- Social impact assessments, including development of best practice SIA Guidelines
- Training and teaching, development and facilitation of environmental training courses for private and public sector and 15 years of lecturing at various tertiary institutions, including University of Cape and Cape Peninsula Technikon

#### **TERTIARY EDUCATION**

- 1984: BSc (Economics and Geology), Rhodes University
- 1985: BEcon (Honours), Rhodes University
- 1992: MSc Environmental Science, University of Cape Town

#### **EMPLOYMENT HISTORY**

- 2004 – present: Tony Barbour Consulting
- 2000 – 2004: Environmental Evaluation Unit, University of Cape Town, Senior Researcher
- 1996 - 2000: SRK Consulting, Associate Director
- 1991 – 1996: Ninham Shand Consulting, Environmental Consultant

#### **SELECTED RELEVANT PROJECT EXPERIENCE**

- Social impact assessments for wind energy facilities (Darling, Eskom, and Hopefield)
- Social impact assessments for three wind energy facilities in the Eastern Cape and currently involved in undertaking social impact assessments for five wind energy facilities in the Eastern Cape and seven in the Western Cape Province
- Social impact assessments for solar energy facilities, currently involved in three in the Northern Cape Province and one in the Western Cape Province
- ESKOM Transmission lines from proposed Bantamsklip Nuclear Power Station, Western Cape
- ESKOM Transmission lines from proposed Koeberg Nuclear Power Station, Western Cape
- SIA for Moropule Coal Power Station, Botswana