

CURRICULUM VITAE

KAREN JODAS

Profession : *Environmental Consultant*
Specialisation : *Strategic environmental assessment and advice; project management and co-ordination of environmental projects; environmental compliance advise and monitoring; Environmental Impact Assessment; environmental management; peer review; policy, strategy and guideline formulation; renewable energy projects; water management*
Work experience : *14 years in the environmental assessment and management field*

SKILLS BASE AND CORE COMPETENCIES

- Fourteen years experience in the environmental management and impact assessment field
- Thirteen years experience in Project Management - Project management of large environmental assessment and management projects
- Strategic and compliance advise for all aspects of environmental assessment and management
- External and peer review of EIA reporting and EIA process
- Working knowledge of environmental planning policies, regulatory frameworks and legislation
- Identification and assessment of potential environmental impacts and benefits
- Development of practical and achievable mitigation measures and management plans and evaluation of risk to project execution
- Experienced in environmental compliance advise, monitoring and reporting for construction projects
- Compilation and review of the reports in accordance with all relevant environmental legislation
- Public participation/involvement and stakeholder consultation
- Environmental strategy, policy and guidelines development
- Experienced in assessments for both linear developments and nodal developments
- Key experience in the assessment of impacts associated with renewable energy projects
- Wide range of experience for public and private sector projects
- Completed projects in all nine Provinces of South Africa, as well as Zambia and Lesotho

EDUCATION AND PROFESSIONAL STATUS

- 1993, B.Sc Earth Sciences, Geography and Zoology, Rhodes University, Grahamstown
- 1994, B.Sc (Hons) in Geography (in Environmental Water Management), Rhodes University, Grahamstown
- 1996, M.Sc in Geography (Geomorphology), Rhodes University, Grahamstown
- 1998, Water Quality Management, Potchefstroom University
- 2002, Environmental Law Course, Aldo Leopold Institute
- 2009, WindFarmer Wind Farm Design course, Garrad Hassan
- South African Council for Natural Scientific Professions as a Professional Natural Scientist: Environmental Scientist (400106/99)
- Xtrack Extreme – Advanced Off-Road Driving Course (2003)

EMPLOYMENT

- 2006 - Current: Director of Savannah Environmental (Pty) Ltd. Independent specialist environmental consultant and advisor
- Jan 1997 – September 2005: Associate of Bohlweki Environmental (Pty) Ltd. Environmental Management Unit: Manager; Principle Environmental Scientist focussing on Environmental

PROJECT EXPERIENCE

Experience includes projects associated with electricity generation and transmission, wastewater treatment facilities, mining and prospecting activities, property development, and national roads, as well as strategy and guidelines development. Current and recently concluded projects include:

Strategic and Regional Assessments

- Strategic Regional Assessment for the Environmental Suitability of Wind Energy Facilities for the entire Western Cape Province (for DEA&DP)
- Regional Assessment for wind energy developments within an identified area 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)
- Five Regional Assessment for wind energy developments within five identified area across South Africa (for Eskom Holdings Limited)

Renewable Power Generation Projects: Wind Energy Facilities

- Environmental Impact Assessment and Environmental Management Plan for the proposed Sere Wind Energy Facility on the West Coast in the Western Cape (for Eskom Generation)
- Environmental Impact Assessment and Environmental Management Plan for the proposed Wind Energy Facility at Hopefield, Western Cape (for Umoya Energy)
- Environmental Impact Assessment and Environmental Management Plan for the proposed Wind Energy Facility at Cookhouse, Eastern Cape (for African Clean Energy Developments)
- Environmental Impact Assessment and Environmental Management Plan for the proposed Flagging Trees Wind Energy Facility at Middelburg, Eastern Cape (for African Clean Energy Developments)
- Environmental Impact Assessment and Environmental Management Plan for the proposed ABs Wind Energy Facility near Indwe, Eastern Cape (for Rainmaker Energy)
- Environmental Impact Assessment and Environmental Management Plan for the proposed Dorper Wind Energy Facility near Molteno, Eastern Cape (for Rainmaker Energy)
- Environmental Impact Assessment and Environmental Management Plan for the proposed Amakhla Emoyeni Wind Energy Facility near Cookhouse, Eastern Cape (for Windlab Developments)
- Environmental Impact Assessment and Environmental Management Plan for the proposed Gouda Wind Energy Facility near Gouda, Western Cape (for VentuSA)
- Environmental Impact Assessment and Environmental Management Plan for the proposed Riverbank Wind Energy Facility near Wesley, Eastern Cape (for Just Energy)
- Environmental Impact Assessment and Environmental Management Plan for the proposed Suurplaat Wind Energy Facility near Sutherland, Northern and Western Cape (for Moyeng Energy)
- Environmental Impact Assessment and Environmental Management Plan for the proposed Wind Energy Facility near Britannia Bay, Western Cape (for TerraPower Solutions)
- Environmental Impact Assessment and Environmental Management Plan for the proposed Karoo Renewable Wind and PV Solar Energy Facility near Victoria West, Northern & Western Cape (for

SARGE)

- Basic Assessments for wind monitoring masts at various sites and locations in the Western and Northern Cape Provinces (for various developers)
- Regional Assessments for site identification and/or assessment for several wind energy Developers across the Western and Northern Cape
- Strategic Regional Assessment for the Environmental Suitability of Wind Energy Facilities for the entire Western Cape Province for DEA&DP

Projects listed below include those projects undertaken at when employed at *Bohlweki Environmental*.

Electricity Sector projects

Power Generation Projects

- Project Manager for the environmental impact assessment for the site selection for a new coal-fired power station (Matimba B) in the Limpopo Province
- Project Manager for the Public Participation Process for the proposed Return-to-Service of the Komati Power Station, Mpumalanga Province
- Project Manager for the Public Participation Process for the proposed Return-to-Service of the Grootvlei Power Station, Mpumalanga Province
- Project Manager for the Detailed Environmental Scoping Study for the proposed Capacity Increase Project at Arnot Power Station, Mpumalanga Province
- Project Manager for the Public Participation Process for the proposed Return-to-Service of the Camden Power Station, Mpumalanga Province
- Project Manager for the Environmental Pre-Scoping Study for the proposed Solar Thermal Power Plant, in the Northern Cape Province

Electricity Transmission Projects

- Project Director for the EIA for the proposed 765kV Transmission Powerline between Hydra Substation (near De Aar) and the proposed Gamma Substation (near Victoria West), Northern Cape Province
- Project Manager for the Environmental Impact Assessment for the 3rd 400 kV Transmission line between the Poseidon and Grassridge Substations in the Eastern Cape Province
- Project Manager for the Environmental Impact Assessment for the proposed new 400 kV Transmission line between Matimba and Witkop Substations, Limpopo Province
- Project Manager for the Environmental Impact Assessment for the proposed new Ikaros Substation and associated 400 kV Transmission line infrastructure, North West Province
- Project Manager for the Detailed Environmental Scoping Study for the Redhill Strengthening Project: proposed new Redhill Substation and associated new 132 kV Distribution line
- Project Manager for the Detailed Environmental Scoping Study for the Breyten Strengthening Project: proposed new Breyten Substation and associated 88 kV Distribution line
- Project Manager for the Environmental Impact Assessment for nine new 132 kV powerlines between the Grassridge Substation and the Coega Industrial Development Zone, Eastern Cape
- Project Manager for the Environmental Impact Assessment and Environmental Management Plan for the proposed Eiland Rural Substation, and the associated 132 kV distribution line, North West Province
- Project Manager for the detailed Environmental Scoping Study and EMP for the proposed Everest Substation, and the 132 kV powerline between Simplon and Everest Substations, Mpumalanga
- Environmental scoping study and environmental management plan for the proposed establishment of Eskom infrastructure for the C-Cut Project at Premier Mine, Cullinan

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

NICK HELME

Profession : *Botanist*
Specialisation : *Botanical scoping and impact assessments; Fynbos & Succulent Karoo*
Work experience : *20 years, 14 as a consultant*

SKILLS BASE AND CORE COMPETENCIES

- 20 years botanical experience in the Western and Northern Cape, focussing on Fynbos and Succulent Karoo biomes.
- Special interest in plant Species of Conservation Concern.
- Assessment of vegetation quality, identification of likely impacts, providing requirements for mitigation.
- Mapping of vegetation patterns using ArcView GIS or Google Earth.
- Report writing and summarising field experience and findings.
- Botanical Basic Assessments, Scoping & Impact Assessments for all types of development applications; drafting of environmental management plans.
- Vegetation research and assessments of botanical conservation value.
- Mapping of areas of botanical sensitivity, interpretation of aerial imagery.
- Understanding of ecological requirements of Fynbos and Karoo habitats, and of biodiversity offsets.

TERTIARY EDUCATION

- BSc (Zoology & Botany) 1990 – University of Cape Town
- BSc (Hons) in Botany 1991 – University of Cape Town

EMPLOYMENT HISTORY

- 2001 – Present, sole proprietor of Nick Helme Botanical Surveys
- 1998 – 2000, specialist botanist, Doug Jeffery Environmental Consultants
- Prior to 1998, freelance as a biologist in South Africa, Bolivia, Cameroon and Madagascar

SELECTED RELEVANT PROJECT EXPERIENCE

- Scoping study of proposed wind energy facility near Laingsburg (CSIR 2011)
- Fatal Flaw analysis of proposed mine site near Garies, N. Cape (AGES Environmental 2011)
- Identification of sensitive areas along divisional roads in the Graafwater area (Site Plan 2011)
- Scoping and Impact Assessment of proposed Rheboksfontein Wind Energy Facility, near Darling (Savannah Environmental 2010)
- Scoping and Impact Assessment of proposed West Coast One Wind Energy Facility, near Vredenburg (Savannah Environmental 2010)
- Scoping and Impact Assessment of proposed Dassiesfontein Wind Energy Facility, near Caledon (Savannah Environmental 2010)
- Botanical assessment of five proposed limestone prospecting areas in the Knersvlakte (Osho Mining 2010)
- Scoping and Impact Assessment of Proposed Wind Energy Facility near Swellendam (CSIR 2010)
- Scoping study of proposed Wind Energy Facility near Britannia Bay (Savannah Environmental 2010)
- Scoping study of Proposed Wind Energy Facility near Bredasdorp (CSIR 2010)

- Scoping and Impact Assessment study of Proposed Springbok Wind Energy Facility
- Scoping study of Proposed Juno Wind Energy Facility near Vredendal
- Scoping and Impact Assessment of Proposed Wind Energy Facility near Caledon
- Scoping and Impact Assessment of proposed Wind Energy Facility near Hopefield
- Scoping and Impact Assessment of Proposed Wind Energy Facility west of Bitterfontein
- Scoping and Impact Assessment of Proposed Wind Energy Facility near De Aar
- Fine Scale vegetation mapping for Sandveld, Bokkeveld & Upper Breede River Valley

CURRICULUM VITAE

ANDREW JENKINS

Profession : *Specialist Environmental Consultant*

Specialisation : *Ornithology*

Years experience : *21*

SKILLS BASE AND CORE COMPETENCIES

- >20 years as a bird specialist in EIA work in southern Africa, with particular emphasis on power line, wind farm and river impoundment projects, particular expertise in raptors, bustards and cranes, and particular experience in the environments of the Western Cape and Lesotho.
- >20 years as a research biologist, with particular emphasis on raptor (falcon) ecology and conservation and the biology and mitigation of collision mortality in large terrestrial birds.

TERTIARY EDUCATION

- 1989 - 1998: MSc upgraded to PhD, Percy FitzPatrick Institute, University of Cape Town
- 1988: BSc Hons (Zoology), University of Natal, Pietermaritzburg
- 1984 - 1987: BSc, (Zoology & African & Experimental Zoology), University of Natal, Pietermaritzburg

EMPLOYMENT HISTORY

- April 2009 - present: Specialist avifaunal consultant, owner of AVISENSE Consulting cc
- September 2007 - March 2009: Research scientist for the Wildlife & Energy Interaction Group of the Endangered Wildlife Trust
- March 2002 - February 2007: Research scientist, FitzPatrick Institute, UCT
- November 1998 – December 2000: Postgraduate research fellow, FitzPatrick Institute, UCT

SELECTED RELEVANT PROJECT EXPERIENCE

- January 2003 - Present: Avian specialist for development projects in the Greater Cape Town area, and more broadly in the Western and Northern Cape, latterly including numerous proposed power line and renewable energy developments
- January 2003 - 2004: Design and oversee monitoring of impacts on avifauna of the Eskom Demonstration Wind Farm facility at Klipheuwel, Western Cape
- April 2001 - 2004: Scoping report and monitoring of the potential impact of the proposed Darling National Demonstration Wind Farm facility on the local avifauna
- November 1998: Subcontracted by the Environmental Evaluation Unit, UCT, to conduct the avian component of a site evaluation for the proposed extension of the Namakwa Sands heavy mineral sands mine area near Lutzville on the Cape west coast
- September 1996, August 1997, August 2000: Part of ornithological team subcontracted by Afridev Consultants to survey the birds of the Katse Basin, Lesotho: phase 1A of the Lesotho Highlands Water Scheme

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

JAYSON ORTON

Profession : *Heritage Consultant*
Specialisation : *Archaeology & Heritage*
Years experience : *8*

SKILLS BASE AND CORE COMPETENCIES

- Archaeological Impact Assessment
- Heritage Impact Assessment
- Archaeological mitigation and research

TERTIARY EDUCATION

- 1997, BA – University of Cape Town
- 1998, BA (Hons) – University of Cape Town
- 2004, MA (Archaeology) – University of Cape Town
- Currently registered for D.Phil (Archaeology) – Oxford University, UK

EMPLOYMENT HISTORY

- 1995 – 1999: Occasional laboratory and field work for UCT Dept Archaeology
- 1999 – 2004: Part time field archaeologist for UCT Archaeology Contracts Office
- 2004 – present: Full-time archaeologist and heritage consultant, UCT Archaeology Contracts Office

SELECTED RELEVANT PROJECT EXPERIENCE

- Ibhubesi Gas Power station, transmission lines and roads Baseline assessment
- Vredendal, Die Bulte PV facility Baseline assessment
- Sutherland, Inca PV facility Heritage Impact Assessment
- Kenhardt, Olywenkolk PV facility (fieldwork only)
- Beaufort West PV facility Heritage Impact Assessment
- Vredenburg, Uiekraal WEF Heritage Impact Assessment
- Darling, Rheboksfontein WEF Heritage Impact Assessment
- Gouda WEF Scoping & Heritage Impact Assessment
- Exxaro WEF Scoping & Heritage Impact Assessment
- Kerriefontein and Darling WEF Heritage Impact Assessment
- De Hoek power line (Piketberg) Notification of Intent to Develop
- Portion of Montagu-Barrydale power line Archaeological Impact Assessment
- Robertson Uitspan substation Archaeological Impact Assessment
- Kappa substation Heritage Impact Assessment
- Omega Substation Scoping Heritage Impact Assessment
- West Coast 1 WEF
- Bedford WEF (fieldwork only)
- Eskom WEF, Namaqualand (fieldwork only)
- Atlantis Open Cycle Gas Turbines (fieldwork only)

CURRICULUM VITAE

MORNE DE JAGER

Profession : *Specialist Environmental Consultant*
Specialisation : *Noise Monitoring, Modelling and Control*
Years experience : *12*

SKILLS BASE AND CORE COMPETENCIES

- Water monitoring programme design
- Water Quality Analysis and Modelling
- Environmental Auditing,
- Noise Monitoring, Modelling and Control
- Biological Monitoring
- Environmental Impact Assessment and Management
- IT skills (software as well as hardware)
- Conflict resolution and stakeholder facilitation

TERTIARY EDUCATION

- B.Eng (Chem), University of Pretoria

EMPLOYMENT HISTORY

- 1998 – 2001: Department of Water Affairs and Forestry, Pollution Control Officer
- 2001 – 2002: EcoSat, Environmental Monitoring, Control and Management
- 2002 – present: Menco / M2 Environmental Connections cc

SELECTED RELEVANT PROJECT EXPERIENCE

- Noise impact assessments for a variety of wind energy facilities across South Africa including, albeit: Gouda Wind Energy Facility, Riverbank Wind Energy Facility, Suurplaat Wind Energy Facility, West Coast One Wind Energy Facility, Rheboksfontein Wind Energy Facility, Flagging Trees, AB's Wind Energy Facility, Dorper Wind Energy Facility, Happy Valley, Deep River Wind Energy Facility, Cookhouse Wind Energy Facility

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