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CURRICULUM VITAE OF KRITANYA NAIDOO

Profession: Environmental Compliance Consultant

Specialisation: Environmental, Health and Safety compliance audits. ISO management system audits,

implementation and monitoring, Compilation of monthly SHEQ reports for projects in the

infrastructure and service provider sectors.

Work Experience: 4 years' experience in the SHEQ field.

VOCATIONAL EXPERIENCE

Kritanya hold a Master's degree in Population Studies and 4 years SHEQ experience in conducting Environmental Compliance Audits, Environmental, Quality and Health and Safety Management System Audits, implementation and maintenance of ISO 14001: 2015 and ISO 9001:2015 systems.

SKILLS BASE AND CORE COMPETENCIES

- Report writing
- Environmental Compliance and System Audits
- Understanding the implementation of NEMA and NEMWA
- Maintaining and implementation of ISO 14001 and ISO 9001 and OHSAS standards

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- M. (Masters) Population Studies (2013), University of KwaZulu-Natal, KZN
- B.SS. (Hons.) Geography and Environmental Management (2011), University of KwaZulu-Natal, KZN
- B.SS. Geography and Environmental Management (2010), University of KwaZulu-Natal, KZN

Courses:

- First aider (2015)
- SHE Representative Course (2015)
- ISO 9001:2015 Internal Auditor Training (2016)
- ISO 14001:2015 Environmental Management System Training (2017)

EMPLOYMENT

Date	Company	Roles and Responsibilities
March 2019 - Current	Savannah Environmental (Pty) Ltd	Environmental Compliance Consultant Tasks include: Scheduled and Ad-hoc ECO audits and checklists. Statutory audits and audits against permits/licences in accordance with legislative requirements. Management system audits checklists & report writing. Environmental Management Programme Revisions. Environmental Authorisation amendments. Review and comment on monthly ECO reports. Review of permits and licences. Assist with identifying new opportunities
October 2017-August 2018	Stefanutti Stocks, KZN Building Division	Environmental and Quality Officer Tasks included: Conduct Environmental Compliance and System Audits. Monitor/Review all environmental statistics. Implement and maintain the Quality Management Systems (QMS). Conduct QMS audits. Write monthly reports on the status of the Quality and Environmental Systems. SHEQ document controller. Involvement in the development and implementation of the Quality Electronic System (Plumbum).
September 2016- September 2017	3 Energy Renewables	Environmental Officer Tasks included: Carry out Environmental and Social Audits based on the Environmental Authorisation, Environmental Management Plan, Environmental Aspects and Social Concerns at varies Renewable Energy Power Plants. Assist in conducting internal Health and Safety inspections and audits at various Renewable Energy Power Plants. Assist with HSE incidents at the Renewable Energy Power Plants. Develop and implement ISO 9001:2015, Quality Management System (QMS).Conduct QMS internal audits, document control and corrective action.

PROJECT EXPERIENCE

Renewable Power Generation Projects: Wind Energy Facilities

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Amakhala Emoyeni WEF, Eastern Cape	Cennergi	Environmental Officer
Tsitsikamma WEF, Eastern Cape	Cennergi	Environmental Officer
Koega WEF, Eastern Cape	Koega Wind Power	Environmental Officer
Metrowind Van Staadens WEF Eastern Cape	Rubicept	Environmental Officer
Roggeveld WEF, Northern and Western Cape	Building Energy	ECO

<u>Infrastructure Development Projects (bridges, pipelines, roads, waste etc)</u>

Basic Assessments

Project Name & Location	Client Name	Role
Nigel Gas Pipeline and associated infrastructure,	Energy Group	Compliance Consultant
Gauteng Province		



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> Email: joanne@savannahsa.com Tel: +27 (11) 656 3237

CURRICULUM VITAE OF JO-ANNE THOMAS

Profession: Environmental Management and Compliance Consultant; Environmental Assessment

Practitioner

Specialisation: Environmental Management; Strategic environmental advice; Environmental compliance

advice & monitoring; Environmental Impact Assessments; Policy, strategy & guideline

formulation; Project Management; General Ecology

Work experience: Twenty one (21) years in the environmental field

VOCATIONAL EXPERIENCE

Provide technical input for projects in the environmental management field, specialising in Strategic Environmental Advice, Environmental Impact Assessment studies, environmental auditing and monitoring, 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 (including client and authority liaison and management of specialist teams); 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

Degrees:

- B.Sc Earth Sciences, University of the Witwatersrand, Johannesburg (1993)
- B.Sc Honours in Botany, University of the Witwatersrand, Johannesburg (1994)
- M.Sc in Botany, University of the Witwatersrand, Johannesburg (1996)

Short Courses:

- Environmental Impact Assessment, Potchefstroom University (1998)
- Environmental Law, Morgan University (2001)
- Environmental Legislation, IMBEWU (2017)
- Mining Legislation, Cameron Cross & Associates (2013)
- Environmental and Social Risk Management (ESRM), International Finance Corporation (2018)

Professional Society Affiliations:

- Registered with the South African Council for Natural Scientific Professions as a Professional Natural Scientist: Environmental Scientist (400024/00)
- Registered with the International Associated for Impact Assessment South Africa (IAIAsa): 5601
- Member of the South African Wind Energy Association (SAWEA)

EMPLOYMENT

Date	Company	Roles and Responsibilities
January 2006 - Current	Savannah Environmental (Pty) Ltd	Director
		Project manager
		Independent specialist environmental consultant,
		Environmental Assessment Practitioner (EAP) and
		advisor.
1997 – 2005	Bohlweki Environmental (Pty) Ltd	Senior Environmental Scientist at. Environmental
		Management and Project Management
January – July 1997	Sutherland High School, Pretoria	Junior Science Teacher

PROJECT EXPERIENCE

Project experience includes large infrastructure projects, including electricity generation and transmission, wastewater treatment facilities, mining and prospecting activities, property development, and national roads, as well as strategy and guidelines development.

RENEWABLE POWER GENERATION PROJECTS: PHOTOVOLTAIC SOLAR ENERGY FACILITIES

Project Name & Location	Client Name	Role
Christiana PV 2 SEF, North West	Solar Reserve South Africa	Project Manager & EAP
De Aar PV facility, Northern Cape	iNca Energy	Project Manager & EAP
Everest SEF near Hennenman, Free State	FRV Energy South Africa	Project Manager & EAP
Graafwater PV SEF, Western Cape	iNca Energy	Project Manager & EAP
Grootkop SEF near Allanridge, Free State	FRV Energy South Africa	Project Manager & EAP
Hertzogville PV 2 SEF with 2 phases, Free State	SunCorp / Solar Reserve	Project Manager & EAP
Karoshoek CPV facility on site 2 as part of the larger	FG Emvelo	Project Manager & EAP
Karoshoek Solar Valley Development East of		
Upington, Northern Cape		

Project Name & Location	Client Name	Role
Kgabalatsane SEF North-East for Brits, North West	Built Environment African	Project Manager & EAP
	Energy Services	
Kleinbegin PV SEF West of Groblershoop, Northern	MedEnergy Global	Project Manager & EAP
Cape		
Lethabo Power Station PV Installation, Free State	Eskom Holdings SoC Limited	Project Manager & EAP
Majuba Power Station PV Installation, Mpumalanga	Eskom Holdings SoC Limited	Project Manager & EAP
Merapi PV SEF Phase 1 – 4 South-East of Excelsior,	SolaireDirect Southern Africa	Project Manager & EAP
Free State		
Sannaspos Solar Park, Free State	SolaireDirect Southern Africa	Project Manager & EAP
Ofir-Zx PV Plant near Keimoes, Northern Cape	S28 Degrees Energy	Project Manager & EAP
Oryx SEF near Virginia, Free State	FRV Energy South Africa	Project Manager & EAP
Project Blue SEF North of Kleinsee, Northern Cape	WWK Development	Project Manager & EAP
S-Kol PV Plant near Keimoes, Northern Cape	S28 Degrees Energy	Project Manager & EAP
Sonnenberg PV Plant near Keimoes, Northern Cape	S28 Degrees Energy	Project Manager & EAP
Tutuka Power Station PV Installation, Mpumalanga	Eskom Transmission	Project Manager & EAP
Two PV sites within the Northern Cape	MedEnergy Global	Project Manager & EAP
Two PV sites within the Western & Northern Cape	iNca Energy	Project Manager & EAP
Upington PV SEF, Northern Cape	MedEnergy Global	Project Manager & EAP
Vredendal PV facility, Western Cape	iNca Energy	Project Manager & EAP
Waterberg PV plant, Limpopo	Thupela Energy	Project Manager & EAP
Watershed Phase I & II SEF near Litchtenburg, North	FRV Energy South Africa	Project Manager & EAP
West		
Alldays PV & CPV SEF Phase 1, Limpopo	BioTherm Energy	Project Manager & EAP
Hyperion PV Solar Development 1, 2, 3, 4, 5 & 6	Building Energy	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Aberdeen PV SEF, Eastern Cape	BioTherm Energy	Project Manager & EAP
Christiana PV 1 SEF on Hartebeestpan Farm, North-	Solar Reserve South Africa	Project Manager & EAP
West		
Heuningspruit PV1 & PV 2 facilities near Koppies,	Sun Mechanics	Project Manager & EAP
Free State		
Kakamas PV Facility, Northern Cape	iNca Energy	Project Manager & EAP
Kakamas II PV Facility, Northern Cape	iNca Energy	Project Manager & EAP
Machadodorp 1 PV SEF, Mpumalanga	Solar To Benefit Africa	Project Manager & EAP
PV site within the Northern Cape	iNca Energy	Project Manager & EAP
PV sites within 4 ACSA airports within South Africa,	Airports Company South Africa	Project Manager & EAP
National	(ACSA)	
RustMo1 PV Plant near Buffelspoort, North West	Momentous Energy	Project Manager & EAP
RustMo2 PV Plant near Buffelspoort, North West	Momentous Energy	Project Manager & EAP
RustMo3 PV Plant near Buffelspoort, North West	Momentous Energy	Project Manager & EAP
RustMo4 PV Plant near Buffelspoort, North West	Momentous Energy	Project Manager & EAP
Sannaspos PV SEF Phase 2 near Bloemfontein, Free	SolaireDirect Southern Africa	Project Manager & EAP
State		
Solar Park Expansion within the Rooiwal Power	AFRKO Energy	Project Manager & EAP
Station, Gauteng		
Steynsrus SEF, Free State	SunCorp	Project Manager & EAP

Project Name & Location	Client Name	Role
Sirius Solar PV Project Three and Sirius Solar PV	SOLA Future Energy	Project Manager & EAP
Project Four (BA in terms of REDZ regulations),		
Northern Cape		

Screening Studies

Project Name & Location	Client Name	Role
Allemans Fontein SEF near Noupoort, Northern Cape	Fusion Energy	Project Manager & EAP
Amandel SEF near Thabazimbi, Limpopo	iNca Energy	Project Manager & EAP
Arola/Doornplaat SEF near Ventersdorp, North West	FRV & iNca Energy	Project Manager & EAP
Bloemfontein Airport PV Installation, Free State	The Power Company	Project Manager & EAP
Brakspruit SEF near Klerksorp, North West	FRV & iNca Energy	Project Manager & EAP
Carolus Poort SEF near Noupoort, Northern Cape	Fusion Energy	Project Manager & EAP
Damfontein SEF near Noupoort, Northern Cape	Fusion Energy	Project Manager & EAP
Everest SEF near Welkom, Free State	FRV & iNca Energy	Project Manager & EAP
Gillmer SEF near Noupoort, Northern Cape	Fusion Energy	Project Manager & EAP
Grootkop SEF near Allansridge, Free State	FRV & iNca Energy	Project Manager & EAP
Heuningspruit PV1 & PV 2 near Koppies, Free State	Cronimat	Project Manager & EAP
Kimberley Airport PV Installation, Northern Cape	The Power Company	Project Manager & EAP
Kolonnade Mall Rooftop PV Installation in Tshwane,	Momentous Energy	Project Manager & EAP
Gauteng		
Loskop SEF near Groblersdal, Limpopo	S&P Power Unit	Project Manager & EAP
Marble SEF near Marble Hall, Limpopo	S&P Power Unit	Project Manager & EAP
Morgenson PV1 SEF South-West of Windsorton,	Solar Reserve South Africa	Project Manager & EAP
Northern Cape		
OR Tambo Airport PV Installation, Gauteng	The Power Company	Project Manager & EAP
Oryx SEF near Virginia, Free State	FRV & iNca Energy	Project Manager & EAP
Rhino SEF near Vaalwater, Limpopo	S&P Power Unit	Project Manager & EAP
Rustmo2 PV Plant near Buffelspoort, North West	Momentous Energy	Project Manager & EAP
Spitskop SEF near Northam, Limpopo	FRV & iNca Energy	Project Manager & EAP
Steynsrus PV, Free State	Suncorp	Project Manager & EAP
Tabor SEF near Polokwane, Limpopo	FRV & iNca Energy	Project Manager & EAP
UpingtonAirport PV Installation, Northern Cape	The Power Company	Project Manager & EAP
Valeria SEF near Hartebeestpoort Dam, North West	Solar to Benefit Africa	Project Manager & EAP
Watershed SEF near Lichtenburg, North West	FRV & iNca Energy	Project Manager & EAP
Witkop SEF near Polokwane, Limpopo	FRV & iNca Energy	Project Manager & EAP
Woodmead Retail Park Rooftop PV Installation,	Momentous Energy	Project Manager & EAP
Gauteng		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO and bi-monthly auditing for the construction of	Enel Green Power	Project Manager
the Adams Solar PV Project Two South of Hotazel,		
Northern Cape		
ECO for the construction of the Kathu PV Facility,	REISA	Project Manager
Northern Cape		
ECO and bi-monthly auditing for the construction of	Enel Green Power	Project Manager
the Pulida PV Facility, Free State		
ECO for the construction of the RustMo1 SEF, North	Momentous Energy	Project Manager
West		
ECO for the construction of the Sishen SEF, Northern	Windfall 59 Properties	Project Manager

Project Name & Location	Client Name	Role
Cape		
ECO for the construction of the Upington Airport PV	Sublanary Trading	Project Manager
Facility, Northern Cape		
Quarterly compliance monitoring of compliance	REISA	Project Manager
with all environmental licenses for the operation		
activities at the Kathu PV facility, Northern Cape		
ECO for the construction of the Konkoonsies II PV SEF	BioTherm Energy	Project Manager
and associated infrastructure, Northern Cape		
ECO for the construction of the Aggeneys PV SEF	BioTherm Energy	Project Manager
and associated infrastructure, Northern Cape		

Compliance Advice and ESAP Reporting

Project Name & Location	Client Name	Role
Aggeneys Solar Farm, Northern Cape	BioTherm Energy	Environmental Advisor
Airies II PV Facility SW of Kenhardt, Northern Cape	BioTherm Energy	Environmental Advisor
Kalahari SEF Phase II in Kathu, Northern Cape	Engie	Environmental Advisor
Kathu PV Facility, Northern Cape	Building Energy	Environmental Advisor
Kenhardt PV Facility, Northern Cape	BioTherm Energy	Environmental Advisor
Kleinbegin PV SEF West of Groblershoop, Northern	MedEnergy	Environmental Advisor
Cape		
Konkoonises II SEF near Pofadder, Northern Cape	BioTherm Energy	Environmental Advisor
Konkoonsies Solar Farm, Northern Cape	BioTherm Energy	Environmental Advisor
Lephalale SEF, Limpopo	Exxaro	Environmental Advisor
Pixley ka Seme PV Park, South-East of De Aar,	African Clean Energy	Environmental Advisor
Northern Cape	Developments (ACED)	
RustMo1 PV Plant near Buffelspoort, North West	Momentous Energy	Environmental Advisor
Scuitdrift 1 SEF & Scuitdrift 2 SEF, Limpopo	Building Energy	Environmental Advisor
Sirius PV Plants, Northern Cape	Aurora Power Solutions	Environmental Advisor
Upington Airport PV Power Project, Northern Cape	Sublunary Trading	Environmental Advisor
Upington SEF, Northern Cape	Abengoa Solar	Environmental Advisor
Ofir-ZX PV SEF near Keimoes, Northern Cape	Networx \$28 Energy	Environmental Advisor
Steynsrus PV1 & PV2 SEF's, Northern Cape	Cronimet Power Solutions	Environmental Advisor
Heuningspruit PV SEF, Northern Cape	Cronimet Power Solutions	Environmental Advisor

Due Diligence Reporting

Project Name & Location	Client Name	Role
5 PV SEF projects in Lephalale, Limpopo	iNca Energy	Environmental Advisor
Prieska PV Plant, Northern Cape	SunEdison Energy India	Environmental Advisor
Sirius Phase One PV Facility near Upington, Northern	Aurora Power Solutions	Environmental Advisor
Cape		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Environmental Termining, 350, Water 53e Electice (Wolf), Wasie Management Electice (Will) & Office Applications		
Project Name & Location	Client Name	Role
Biodiversity Permit & WULA for the Aggeneys SEF	BioTherm Energy	Project Manager & EAP
near Aggeneys, Northern Cape		
Biodiversity Permit for the Konkoonises II SEF near	BioTherm Energy	Project Manager & EAP
Pofadder, Northern Cape		
Biodiversity Permitting for the Lephalale SEF,	Exxaro Resources	Project Manager & EAP
Limpopo		

Project Name & Location	Client Name	Role
Environmental Permitting for the Kleinbegin PV SEF	MedEnergy	Project Manager & EAP
West of Groblershoop, Northern Cape		
Environmental Permitting for the Upington SEF,	Abengoa Solar	Project Manager & EAP
Northern Cape		
Environmental Permitting for the Kathu PV Facility,	Building Energy	Project Manager & EAP
Northern Cape		
Environmental Permitting for the Konkoonsies Solar	BioTherm Energy	Project Manager & EAP
Farm, Northern Cape		
Environmental Permitting for the Lephalale SEF,	Exxaro Resources	Project Manager & EAP
Limpopo		
Environmental Permitting for the Scuitdrift 1 SEF & Scuitdrift 2 SEF, Limpopo	Building Energy	Project Manager & EAP
Environmental Permitting for the Sirius PV Plant,	Aurora Power Solutions	Project Manager & EAP
Northern Cape	, torera rewer coloners	Trojoci Mariagor a 27 ii
Environmental Permitting for the Steynsrus PV1 & PV2	Cronimet Power Solutions	Project Manager & EAP
SEF's, Northern Cape		,
Environmental Permitting for the Heuningspruit PV	Cronimet Power Solutions	Project Manager & EAP
SEF, Northern Cape		
Permits for the Kleinbegin and UAP PV Plants,	MedEnergy Global	Project Manager & EAP
Northern Cape		
S53 Application for Arriesfontein Solar Park Phase 1 –	Solar Reserve / SunCorp	Project Manager & EAP
3 near Danielskuil, Northern Cape		
S53 Application for Hertzogville PV1 & PV 2 SEFs, Free	Solar Reserve / SunCorp	Project Manager & EAP
State		
S53 Application for the Bloemfontein Airport PV	Sublunary Trading	Project Manager & EAP
Facility, Free State		
\$53 Application for the Kimberley Airport PV Facility,	Sublunary Trading	Project Manager & EAP
Northern Cape		
S53 Application for the Project Blue SEF, Northern	WWK Developments	Project Manager & EAP
Cape		
S53 Application for the Upington Airport PV Facility,	Sublunary Trading	Project Manager & EAP
Free State		
WULA for the Kalahari SEF Phase II in Kathu, Northern	Engie	Project Manager & EAP
Cape		
Environmental Permitting for the Steynsrus PV1 & PV2	Cronimet Power Solutions	Project Manager & EAP
SEF's, Northern Cape		
Environmental Permitting for the Heuningspruit PV	Cronimet Power Solutions	Project Manager & EAP
SEF, Northern Cape		

RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)

Project Name & Location	Client Name	Role
llanga CSP 2, 3, 4, 5, 7 & 9 Facilities near Upington,	Emvelo Holdings	Project Manager & EAP
Northern Cape		
llanga CSP near Upington, Northern Cape	llangethu Energy	Project Manager & EAP
llanga Tower 1 Facility near Upington, Northern	Emvelo Holdings	Project Manager & EAP
Cape		

Project Name & Location	Client Name	Role
Karoshoek CPVPD 1-4 facilities on site 2 as part of	FG Emvelo	Project Manager & EAP
the larger Karoshoek Solar Valley Development East		
of Upington, Northern Cape		
Karoshoek CSP facilities on sites 1.4; 4 & 5 as part of	FG Emvelo	Project Manager & EAP
the larger Karoshoek Solar Valley Development East		
of Upington, Northern Cape		
Karoshoek Linear Fresnel 1 Facility on site 1.1 as part	FG Emvelo	Project Manager & EAP
of the larger Karoshoek Solar Valley Development		
East of Upington, Northern Cape		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the !Khi CSP Facility,	Abengoa Solar	Project Manager
Northern Cape		
ECO for the construction of the Ilanga CSP 1 Facility	Karoshoek Solar One	Project Manager
near Upington, Northern Cape		
ECO for the construction of the folar Park, Northern	Kathu Solar	Project Manager
Cape		
ECO for the construction of the KaXu! CSP Facility,	Abengoa Solar	Project Manager
Northern Cape		
Internal audit of compliance with the conditions of	Karoshoek Solar One	Project Manager
the IWUL issued to the Karoshoek Solar One CSP		
Facility, Northern Cape		

Screening Studies

Project Name & Location	Client Name	Role
Upington CSP (Tower) Plant near Kanoneiland,	iNca Energy and FRV	Project Manager & EAP
Northern Cape		

Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
llanga CSP Facility near Upington, Northern Cape	llangethu Energy	Environmental Advisor
llangalethu CSP 2, Northern Cape	FG Emvelo	Environmental Advisor
Kathu CSP Facility, Northern Cape	GDF Suez	Environmental Advisor
Lephalale SEF, Limpopo	Cennergi	Environmental Advisor
Solis I CSP Facility, Northern Cape	Brightsource	Environmental Advisor

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

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Project Name & Location	Client Name	Role
Environmental Permitting for the Ilanga CSP Facility	llangethu Energy	Project Manager & EAP
near Upington, Northern Cape		
Environmental Permitting for the Kathu CSP, Northern	GDF Suez	Project Manager & EAP
Cape		
WULA for the Solis I CSP Facility, Northern Cape	Brightsource	Project Manager & EAP

RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

Project Name & Location	Client Name	Role
Sere WEF, Western Cape	Eskom Holdings SoC Limited	EAP

Project Name & Location	Client Name	Role
Aberdeen WEF, Eastern Cape	Eskom Holdings SoC Limited	Project Manager & EAP
Amakhala Emoyeni WEF, Eastern Cape	Windlab Developments	Project Manager & EAP
EXXARO West Coast WEF, Western Cape	EXXARO Resources	Project Manager & EAP
Goereesoe Wind Farm near Swellendam, Western	iNca Energy	Project Manager & EAP
Cape		
Hartneest WEF, Western Cape	Juwi Renewable Energies	Project Manager & EAP
Hopefield WEF, Western Cape	Umoya Energy	EAP
Kleinsee WEF, Northern Cape	Eskom Holdings SoC Limited	Project Manager & EAP
Klipheuwel/Dassiesfontein WEF within the Overberg	BioTherm Energy	Project Manager & EAP
area, Western Cape		
Moorreesburg WEF, Western Cape	iNca Energy	Project Manager & EAP
Oyster Bay WEF, Eastern Cape	Renewable Energy Resources	Project Manager & EAP
	Southern Africa	
Project Blue WEF, Northern Cape	Windy World	Project Manager & EAP
Rheboksfontein WEF, Western Cape	Moyeng Energy	Project Manager & EAP
Spitskop East WEF near Riebeeck East, Eastern Cape	Renewable Energy Resources	Project Manager & EAP
	Southern Africa	
Suurplaat WEF, Western Cape	Moyeng Energy	Project Manager & EAP
Swellendam WEF, Western Cape	IE Swellendam	Project Manager & EAP
Tsitsikamma WEF, Eastern Cape	Exxarro	Project Manager & EAP
West Coast One WEF, Western Cape	Moyeng Energy	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Amakhala Emoyeni Wind Monitoring Masts, Eastern	Windlab Developments	Project Manager & EAP
Cape		
Beaufort West Wind Monitoring Masts, Western Cape	Umoya Energy	Project Manager & EAP
Hopefield Community Wind Farm near Hopefield,	Umoya Energy	Project Manager & EAP
Western Cape		
Koekenaap Wind Monitoring Masts, Western Cape	EXXARO Resources	Project Manager & EAP
Koingnaas WEF, Northern Cape	Just Palm Tree Power	Project Manager & EAP
Laingsburg Area Wind Monitoring Masts, Western	Umoya Energy	Project Manager & EAP
Cape		
Overberg Area Wind Monitoring Masts, Western	BioTherm Energy	Project Manager & EAP
Cape		
Oyster Bay Wind Monitoring Masts, Eastern Cape	Renewable Energy Systems	Project Manager & EAP
	Southern Africa (RES)	

Screening Studies

Project Name & Location	Client Name	Role
Albertinia WEF, Western Cape	BioTherm Energy	Project Manager & EAP
Koingnaas WEF, Northern Cape	Just Pal Tree Power	Project Manager & EAP
Napier Region WEF Developments, Western Cape	BioTherm Energy	Project Manager & EAP
Tsitsikamma WEF, Eastern Cape	Exxarro Resources	Project Manager & EAP
Various WEFs within an identified area in the	BioTherm Energy	Project Manager & EAP
Overberg area, Western Cape		
Various WEFs within an identified area on the West	Investec Bank Limited	Project Manager & EAP
Coast, Western Cape		
Various WEFs within an identified area on the West	Eskom Holdings Limited	Project Manager & EAP
Coast, Western Cape		

Project Name & Location	Client Name	Role
Various WEFs within the Western Cape	Western Cape Department of	Project Manager & EAP
	Environmental Affairs and	
	Development Planning	
Velddrift WEF, Western Cape	VentuSA Energy	Project Manager & EAP
Wind 1000 Project	Thabo Consulting on behalf of	Project Manager & EAP
	Eskom Holdings	
Wittekleibosch, Snylip & Doriskraal WEFs, Eastern	Exxarro Resources	Project Manager & EAP
Cape		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the West Coast One	Aurora Wind Power	Project Manager
WEF, Western Cape		
ECO for the construction of the Gouda WEF,	Blue Falcon	Project Manager
Western Cape		
EO for the Dassiesklip Wind Energy Facility, Western	Group 5	Project Manager
Cape		
Quarterly compliance monitoring of compliance	Blue Falcon	Project Manager
with all environmental licenses for the operation		
activities at the Gouda Wind Energy facility near		
Gouda, Western Cape		
Annual auditing of compliance with all	Aurora Wind Power	Project Manager
environmental licenses for the operation activities at		
the West Coast One Wind Energy facility near		
Vredenburg, Western Cape		
External environmental and social audit for the	Cennergi	Project Manager
Amakhala Wind Farm, Eastern Cape		
External environmental and social audit for the	Cennergi	Project Manager
Tsitsikamma Wind Farm, Eastern Cape		
ECO for the construction of the Excelsior Wind Farm	BioTherm Energy	Project Manager
and associated infrastructure, Northern Cape		
External compliance audit of the Dassiesklip Wind	BioTherm Energy	Project Manager
Energy Facility, Western Cape		

Compliance Advice

Project Name & Location	Client Name	Role
Amakhala Phase 1 WEF, Eastern Cape	Cennergi	Environmental Advisor
Dassiesfontein WEF within the Overberg area,	BioTherm Energy	Environmental Advisor
Western Cape		
Excelsior Wind Farm, Western Cape	BioTherm Energy	Environmental Advisor
Great Karoo Wind Farm, Northern Cape	African Clean Energy	Environmental Advisor
	Developments (ACED)	
Hopefield Community WEF, Western Cape	African Clean Energy	Environmental Advisor
	Developments (ACED)	
Rheboksfontein WEF, Western Cape	Moyeng Energy	Environmental Advisor
Tiqua WEF, Western Cape	Cennergi	Environmental Advisor
Tsitsikamma WEF, Eastern Cape	Cennergi	Environmental Advisor
West Coast One WEF, Western Cape	Moyeng Energy	Environmental Advisor

Due Diligence Reporting

Project Name & Location	Client Name	Role
Witteberg WEF, Western Cape	EDPR Renewables	Environmental Advisor
IPD Vredenburg WEF within the Saldanha Bay area,	IL&FS Energy Development	Environmental Advisor
Western Cape	Company	

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Biodiversity Permitting for the Power Line between	Cennergi	Project Manager & EAP
the Tsitikamma Community WEF & the Diep River		
Substation, Eastern Cape		
Biodiversity Permitting for the West Coast One WEF,	Aurora Wind Power	Project Manager & EAP
Western Cape		
Environmental Permitting for the Excelsior WEF,	BioTherm Energy	Project Manager & EAP
Western Cape		
Plant Permits & WULA for the Tsitsikamma	Cennergi	Project Manager & EAP
Community WEF, Eastern Cape		
S24G and WULA for the Rectification for the	Hossam Soror	Project Manager & EAP
commencement of unlawful activities on Ruimsig AH		
in Honeydew, Gauteng		
S24G Application for the Rheboksfontein WEF,	Ormonde - Theo Basson	Project Manager & EAP
Western Cape		
S53 Application & WULA for Suurplaat and Gemini	Engie	Project Manager & EAP
WEFs, Northern Cape		
S53 Application for the Hopefield Community Wind	Umoya Energy	Project Manager & EAP
Farm near Hopefield, Western Cape		
S53 Application for the Project Blue WEF, Northern	WWK Developments	Project Manager & EAP
Cape		
S53 for the Oyster Bay WEF, Eastern Cape	RES	Project Manager & EAP
WULA for the Great Karoo Wind Farm, Northern	African Clean Energy	Project Manager & EAP
Cape	Developments (ACED)	

CONVENTIONAL POWER GENERATION PROJECTS (COAL)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Mutsho Power Station near Makhado, Limpopo	Mutsho Consortium	Project Manager & EAP
Coal-fired Power Station near Ogies, Mpumalanga	Ruukki SA	Project Manager & EAP
Thabametsi IPP Coal-fired Power Station, near	Axia	Project Manager & EAP
Lephalale, Limpopo		
Transalloys Coal-fired Power Station, Mpumalanga	Transalloys	Project Manager & EAP
Tshivasho IPP Coal-fired Power Station (with WML),	Cennergi	Project Manager & EAP
near Lephalale, Limpopo		
Umbani Coal-fired Power Station, near Kriel,	ISS Global Mining	Project Manager & EAP
Mpumalanga		
Waterberg IPP Coal-Fired Power Station near	Exxaro Resources	Project Manager & EAP
Lephalale, Limpopo		/

Basic Assessments

Project Name & Location	Client Name	Role
Coal Stockyard on Medupi Ash Dump Site, Limpopo	Eskom Holdings	Project Manager & EAP

Project Name & Location	Client Name	Role
Biomass Co-Firing Demonstration Facility at Arnot	Eskom Holdings	Project Manager & EAP
Power Station East of Middleburg, Mpumlanaga		

Screening Studies

Project Name & Location	Client Name	Role
Baseload Power Station near Lephalale, Limpopo	Cennergi	Project Manager & EAP
Coal-Fired Power Plant near Delmas, Mpumalanga	Exxaro Resources	Project Manager & EAP
Makhado Power Station, Limpopo	Mutsho Consortium, Limpopo	Project Manager & EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the Camden Power Station, Mpumalanga	Eskom Holdings	Project Manager

Compliance Advice

Project Name & Location	Client Name	Role
Thabametsi IPP Coal-fired Power Station, near	Axia	Environmental Advisor
Lephalale, Limpopo		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Permit application for the Thabametsi Bulk Water	Axia	Project Manager & EAP
Pipeline, near Lephalale, Limpopo		
S53 & WULA for the Waterberg IPP Coal-Fired Power	Exxaro Resources	Project Manager & EAP
Station near Lephalale, Limpopo		
S53 Application for the Tshivasho Coal-fired Power	Cennergi	Project Manager & EAP
Station near Lephalale, Limpopo		

CONVENTIONAL POWER GENERATION PROJECTS (GAS)

Project Name & Location	Client Name	Role
Ankerlig OCGT to CCGT Conversion project &400 kV	Eskom Holdings SoC Limited	Project Manager & EAP
transmission power line between Ankerlig and the		
Omega Substation, Western Cape		
Gourikwa OCGT to CCGT Conversion project & 400	Eskom Holdings SoC Limited	Project Manager & EAP
kV transmission power line between Gourikwa &		
Proteus Substation, Western Cape		
Richards Bay Gas to Power Combined Cycle Power	Eskom Holdings SoC Limited	Project Manager & EAP
Station, KwaZulu-Natal		
Richards Bay Gas to Power Plant, KwaZulu-Natal	Richards Bay Gas	Project Manager & EAP
Decommissioning & Recommissioning of 3 Gas	Eskom Holdings	Project Manager & EAP
Turbine Units at Acacia Power Station & 1 Gas		
Turbine Unit at Port Rex Power Station to the existing		
Ankerlig Power Station in Atlantis Industria, Western		
Cape		
Two 132kV Chickadee Lines to the new Zonnebloem	Eskom Holdings	Project Manager & EAP
Switching Station, Mpumalanga		

Screening Studies

Project Name & Location	Client Name	Role
Fatal Flaw Analysis for 3 area identified for the	Globeleq Advisors Limited	Project Manager & EAP
establishment of a 500MW CCGT Power Station		
Richards Bay Gas to Power Combined Cycle Power	Eskom Holdings SoC Limited	Project Manager & EAP
Station, KwaZulu-Natal		

GRID INFRASTRUCTURE PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Aggeneis-Oranjemond Transmission Line &	Eskom Transmission	Project Manager & EAP
Substation Upgrade, Northern Cape		
Ankerlig-Omega Transmission Power Lines, Western	Eskom Transmission	Project Manager & EAP
Cape		
Karoshoek Grid Integration project as part of the	FG Emvelo	Project Manager & EAP
Karoshoek Solar Valley Development East of		
Upington, Northern Cape		
Koeberg-Omega Transmission Power Lines,, Western	Eskom Transmission	Project Manager & EAP
Cape		
Koeberg-Stikland Transmission Power Lines, Western	Eskom Transmission	Project Manager & EAP
Cape		
Kyalami Strengthening Project, Gauteng	Eskom Transmission	Project Manager & EAP
Mokopane Integration Project, Limpopo	Eskom Transmission	Project Manager & EAP
Saldanha Bay Strengthening Project, Western Cape	Eskom Transmission	Project Manager & EAP
Steelpoort Integration Project, Limpopo	Eskom Transmission	Project Manager & EAP
Transmission Lines from the Koeberg-2 Nuclear	Eskom Transmission	Project Manager & EAP
Power Station site, Western Cape		
Tshwane Strengthening Project, Phase 1, Gauteng	Eskom Transmission	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Dassenberg-Koeberg Power Line Deviation from the	Eskom Holdings	Project Manager & EAP
Koeberg to the Ankerlig Power Station, Western		
Cape		
Golden Valley II WEF Power Line & Substation near	BioTherm Energy	Project Manager & EAP
Cookhouse, Eastern Cape		
Golden Valley WEF Power Line near Cookhouse,	BioTherm Energy	Project Manager & EAP
Eastern Cape		
Karoshoek Grid Integration project as part of the	FG Emvelo	Project Manager & EAP
Karoshoek Solar Valley Development East of		
Upington, Northern Cape		
Konkoonsies II PV SEF Power Line to the Paulputs	BioTherm Energy	Project Manager & EAP
Substation near Pofadder, Northern Cape		
Perdekraal West WEF Powerline to the Eskom Kappa	BioTherm Energy	Project Manager & EAP
Substation, Westnern Cape		
Rheboksfontein WEF Powerline to the Aurora	Moyeng Energy	Project Manager & EAP
Substation, Western Cape		
Soetwater Switching Station near Sutherland,	African Clean Energy	Project Manager & EAP
Northern Cape	Developments (ACED)	

Solis Power I Power Line & Switchyard Station near	Brightsource	Project Manager & EAP
Upington, Northern Cape		
Stormwater Canal System for the Ilanga CSP near	Karoshoek Solar One	Project Manager & EAP
Upington, Northern Cape		
Tsitsikamma Community WEF Powerline to the Diep	Eskom Holdings	Project Manager & EAP
River Substation, Eastern Cape		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the Ferrum-Mookodi	Trans-Africa Projects on behalf	Project Manager
Transmission Line, Northern Cape and North West	of Eskom	
EO for the construction of the Gamma-Kappa	Trans-Africa Projects on behalf	Project Manager
Section A Transmission Line, Western Cape	of Eskom	
EO for the construction of the Gamma-Kappa	Trans-Africa Projects on behalf	Project Manager
Section B Transmission Line, Western Cape	of Eskom	
EO for the construction of the Hydra IPP Integration	Trans-Africa Projects on behalf	Project Manager
project, Northern Cape	of Eskom	
EO for the construction of the Kappa-Sterrekus	Trans-Africa Projects on behalf	Project Manager
Section C Transmission Line, Western Cape	of Eskom	
EO for the construction of the Namaqualand	Trans-Africa Projects on behalf	Project Manager
Strengthening project in Port Nolloth, Western Cape	of Eskom	
ECO for the construction of the Neptune Substation	Eskom	Project Manager
Soil Erosion Mitigation Project, Eastern Cape		
ECO for the construction of the Ilanga-Gordonia	Karoshoek Solar One	Project Manager
132kV power line, Northern Cape		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Environmental Permitting and WULA for the	Eskom Holdings	Project Manager & EAP
Rockdale B Substation & Loop in Power Lines,		
Environmental Permitting and WULA for the	Eskom Holdings	Project Manager & EAP
Steelpoort Integration project, Limpopo		
Environmental Permitting for Solis CSP near Upington,	Brightsource	Project Manager & EAP
Northern Cape		

MINING SECTOR PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Elitheni Coal Mine near Indwe, Eastern Cape	Elitheni Coal	Project Manager & EAP
Groot Letaba River Development Project Borrow Pits	liso	Project Manager & EAP
Grootegeluk Coal Mine for coal transportation	Eskom Holdings	Project Manager & EAP
infrastructure between the mine and Medupi Power		
Station (EMPr amendment) , Limpopo		
Waterberg Coal Mine (EMPr amendment), Limpopo	Seskoko Resources	Project Manager & EAP
Aluminium Plant WML & AEL, Gauteng	GfE-MIR Alloys & Minerals	Project Manager & EAP

Basic Assessments

Project Name & Location	Client Name	Role
Rare Earth Separation Plant in Vredendal, Western	Rareco	Project Manager & EAP
Cape		

Decommissioning and Demolition of Kilns 5 & 6 at	PPC	Project Manager & EAP
the Slurry Plant, Kwa-Zulu Natal		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the Duhva Mine Water	Eskom Holdings SoC Limited	Project Manager
Recovery Project, Mpumalanga		
External compliance audit of Palesa Coal Mine's	HCI Coal	Project Manager
Integrated Water Use License (IWUL), near		
KwaMhlanga, Mpumalanga		
External compliance audit of Palesa Coal Mine's	HCI Coal	Project Manager
Waste Management License (WML) and EMP, near		
KwaMhlanga, Mpumalanga		
External compliance audit of Mbali Coal Mine's	HCI Coal	Project Manager
Integrated Water Use License (IWUL), near Ogies,		
Mpumalanga		
Independent External Compliance Audit of Water	Tronox Namakwa Sands	Project Manager
Use License (WUL) for the Tronox Namakwa Sands		
(TNS) Mining Operations (Brand se Baai), Western		
Cape		
Independent External Compliance Audit of Water	Tronox Namakwa Sands	Project Manager
Use License (WUL) for the Tronox Namakwa Sands		
(TNS) Mineral Separation Plant (MSP), Western Cape		
Independent External Compliance Audit of Water	Tronox Namakwa Sands	Project Manager
Use License (WUL) for the Tronox Namakwa Sands		
(TNS) Smelter Operations (Saldanha), Western Cape		
Compliance Auditing of the Waste Management	PetroSA	Project Manager
Licence for the PetroSA Landfill Site at the GTL		
Refinery, Western Cape		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
Waste Licence Application for the Rare Earth	Rareco	Project Manager & EAP
Separation Plant in Vredendal, Western Cape		
WULA for the Expansion of the Landfill site at Exxaro's	Exxaro Resources	Project Manager & EAP
Namakwa Sands Mineral Separation Plant, Western		
Cape		
S24G & WML for an Aluminium Plant, Gauteng	GfE-MIR Alloys & Minerals	Project Manager & EAP

INFRASTRUCTURE DEVELOPMENT PROJECTS (BRIDGES, PIPELINES, ROADS, WATER RESOURCES, STORAGE, ETC)

Project Name & Location	Client Name	Role
Bridge across the Ngotwane River, on the border of	Eskom Holdings	Project Manager & EAP
South Africa and Botswana		
Chemical Storage Tanks, Metallurgical Plant	Goldfields	Project Manager & EAP
Upgrade & Backfill Plant upgrade at South Deep		
Gold Mine, near Westornaria, Gauteng		
Expansion of the existing Welgedacht Water Care	ERWAT	Project Manager & EAP
Works, Gauteng		

Project Name & Location	Client Name	Role
Golden Valley WEF Access Road near Cookhouse,	BioTherm Energy	Project Manager & EAP
Eastern Cape		
Great Fish River Wind Farm Access Roads and	African Clean Energy	Project Manager & EAP
Watercourse Crossings near Cookhouse, Eastern	Developments (ACED)	
Cape		
llanga CSP Facility Watercourse Crossings near	Karoshoek Solar one	Project Manager & EAP
Upington, Northern Cape		
Modification of the existing Hartebeestfontein Water	ERWAT	Project Manager & EAP
Care Works, Gautng		
N10 Road Realignment for the llanga CSP Facility,	SANRAL	Project Manager & EAP
East of Upington, Northern Cape		
Nxuba (Bedford) Wind Farm Watercourse Crossings	African Clean Energy	Project Manager & EAP
near Cookhouse, Eastern Cape	Developments (ACED)	
Pollution Control Dams at the Medupi Power Station	Eskom	Project Manager & EAP
Ash Dump & Coal Stockyard, Limpopo		
Qoboshane borrow pits (EMPr only), Eastern Cape	Emalahleni Local Municipality	Project Manager & EAP
Tsitsikamma Community WEF Watercourse Crossings,	Cennergi	Project Manager & EAP
Eastern Cape		
Clayville Central Steam Plant, Gauteng	Bellmall Energy	Project Manager & EAP
Msenge Emoyeni Wind Farm Watercourse Crossings	Windlab	Project Manager & EAP
and Roads, Eastern Cape		

Basic Assessments

Project Name & Location	Client Name	Role
Harmony Gold WWTW at Doornkop Mine, Gauteng	Harmony Doornkop Plant	Project Manager & EAP
Ofir-ZX Watercourse Crossing for the Solar PV Facility,	Networx \$28 Energy	Project Manager & EAP
near Keimoes, Northern Cape		
Qoboshane bridge & access roads, Eastern Cape	Emalahleni Local Municipality	Project Manager & EAP
Relocation of the Assay Laboratory near	Sibanye Gold	Project Manager & EAP
Carletonville, Gauteng		
Richards Bay Harbour Staging Area, KwaZulu-Natal	Eskom Holdings	Project Manager & EAP
S-Kol Watercourse Crossing for the Solar PV Facility,	Networx \$28 Energy	Project Manager & EAP
East of Keimoes, Northern Cape		
Sonnenberg Watercourse Crossing for the Solar PV	Networx \$28 Energy	Project Manager & EAP
Facility, West Keimoes, Northern Cape		
Kruisvallei Hydroelectric Power Generation Scheme,	Building Energy	Project Manager & EAP
Free State		
Masetjaba Water Reservoir, Pump Station and Bulk	Naidu Consulting Engineers	Project Manager & EAP
Supply Pipeline near Nigel, Gauteng		
Access Road for the Dwarsug Wind Farm, Northern	South Africa Mainsteam	Project Manager & EAP
Cape Province	Renewable Power	
Upgrade of the Cooling Water Treatment Facility at	Eskom	Project Manager & EAP
the Kriel Power Station, Mpumalanga		

Screening Studies

Project Name & Location	Client Name	Role
Roodepoort Open Space Optimisation Programme	TIMAC Engineering Projects	Project Manager & EAP
(OSOP) Precinct, Gauteng		
Vegetable Oil Plant and Associated Pipeline, Kwa-	Wilmar Oils and Fats Africa	Project Manager & EAP
Zulu Natal		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO and bi-monthly auditing for the construction of	Department of Water and	Project Manager
the Olifants River Water Resources Development	Sanitation	Auditor
Project (ORWRDP) Phase 2A: De Hoop Dam, R555		
realignment and housing infrastructure		
ECO for the Rehabilitation of the Blaaupan & Storm	Airports Company of South	Project Manager
Water Channel, Gauteng	Africa (ACSA)	
Due Diligence reporting for the Better Fuel Pyrolysis	Better Fuels	Project Manager
Facility, Gauteng		
ECO for the Construction of the Water Pipeline from	Transnet	Project Manager
Kendal Power Station to Kendal Pump Station,		
Mpumalanga		
ECO for the Replacement of Low-Level Bridge,	South African National	Project Manager
Demolition and Removal of Artificial Pong, and	Biodiversity Institute (SANBI)	
Reinforcement the Banks of the Crocodile River at		
the Construction at Walter Sisulu National Botanical		
Gardens, Gauteng Province		
External Compliance Audit of the Air Emission	PetroSA	Project Manager
Licence (AEL) for a depot in Bloemfontein, Free		
State Province and in Tzaneen, Mpumalanga		
Province		

Environmental Permitting, \$53, Water Use Licence (WUL), Waste Management Licence (WML) & Other Applications

Project Name & Location	Client Name	Role
WULA for the Izubulo Private Nature Reserve,	Kjell Bismeyer, Jann Bader,	Project Manager & EAP
Limpopo	Laurence Saad	
WULA for the Masodini Private Game Lode, Limpopo	Masodini Private Game Lodge	Environmental Advisor
WULA for the Ezulwini Private Nature Reserve,	Ezulwini Investments	Project Manager & EAP
Limpopo		
WULA for the Masodini Private Game Lode, Limpopo	Masodini Private Game Lodge	Project Manager & EAP
WULA for the N10 Realignment at the Ilanga SEF,	Karoshoek Solar One	Project Manager & EAP
Northern Cape		
WULA for the Kruisvallei Hydroelectric Power	Building Energy	Project Manager & EAP
Generation Scheme, Free State		
\$24G and WULA for the Ilegal construction of	Sorror Language Services	Project Manager & EAP
structures within a watercourse on EFF 24 Ruimsig		
Agricultural Holdings, Gauteng		

HOUSING AND URBAN PROJECTS

Basic Assessments

Project Name & Location	Client Name	Role
Postmasburg Housing Development, Northern Cape	Transnet	Project Manager & EAP

Compliance Advice and reporting

Project Name & Location	Client Name	Role
Kampi ya Thude at the Olifants West Game Reserve,	Nick Elliot	Environmental Advisor
Limpopo		

Project Name & Location	Client Name	Role
External Compliance Audit of WUL for the	Johannesburg Country Club	Project Manager
Johannesburg Country Club, Gauteng		

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Due Diligence Audit for the Due Diligence Audit	Delta BEC (on behalf of	Project Manager
Report, Gauteng	Johannesburg Development	
	Agency (JDA))	

ENVIRONMENTAL MANAGEMENT TOOLS

Project Name & Location	Client Name	Role
Development of the 3rd Edition Environmental	Gauteng Department of	Project Manager & EAP
Implementation Plan (EIP)	Agriculture and Rural	
	Development (GDARD)	
Development of Provincial Guidelines on 4x4 routes,	Western Cape Department of	EAP
Western Cape	Environmental Affairs and	
	Development Planning	
Compilation of Construction and Operation EMP for	Eskom Holdings	Project Manager & EAP
the Braamhoek Transmission Integration Project,		
Kwazulu-Natal		
Compilation of EMP for the Wholesale Trade of	Munaca Technologies	Project Manager & EAP
Petroleum Products, Gauteng		
Operational Environmental Management	Eskom Holdings	Project Manager & EAP
Programme (OEMP) for Medupi Power Station,		
Limpopo		
Operational Environmental Management	Dube TradePort Corporation	Project Manager & EAP
Programme (OEMP) for the Dube TradePort Site		
Wide Precinct		
Operational Environmental Management	Eskom Holdings	Project Manager & EAP
Programme (OEMP) for the Kusile Power Station,		
Mpumalanga		
Review of Basic Assessment Process for the	Exxaro Resources	Project Manager & EAP
Wittekleibosch Wind Monitoring Mast, Eastern Cape		
Revision of the EMPr for the Sirius Solar PV	Aurora Power Solutions	Project Manager & EAP
State of the Environment (SoE) for Emalahleni Local	Simo Consulting on behalf of	Project Manager & EAP
Municipality, Mpumalanga	Emalahleni Local Municipality	
Aspects and Impacts Register for Salberg Concrete	Salberg Concrete Products	EAP
Products operations		
First State of Waste Report for South Africa	Golder on behalf of the	Project Manager & EAP
	Department of Environmental	
	Affairs	
Responsibilities Matrix and Gap Analysis for the	Building Energy	Project Manager
Kruisvallei Hydroelectric Power Generation Scheme,		
Free State Province		
Responsibilities Matrix and Gap Analysis for the	Building Energy	Project Manager
Roggeveld Wind Farm, Northern & Western Cape		
Provinces		

PROJECTS OUTSIDE OF SOUTH AFRICA

Project Name & Location	Client Name	Role
Advisory Services for the Zizabona Transmission	PHD Capital	Advisor
Project, Zambia, Zimbabwe, Botswana & Namibia		
EIA for the Semonkong WEF, Lesotho	MOSCET	Project Manager & EAP
EMP for the Kuvaninga Energia Gas Fired Power	ADC (Pty) Ltd	Project Manager & EAP
Project, Mozambique		
Environmental Screening Report for the SEF near	Building Energy	EAP
Thabana Morena, Lesotho		
EPBs for the Kawambwa, Mansa, Mwense and	Building Energy	Project Manager & EAP
Nchelenge SEFs in Luapula Province, Zambia		
ESG Due Diligence for the Hilton Garden Inn	Vatange Capital	Project Manager
Development in Windhoek, Namibia		
Mandahill Mall Rooftop PV SEF EPB, Lusaka, Zambia	Building Energy	Project Manager & EAP
Monthly ECO for the PV Power Plant for the Mocuba	Scatec	Project Manager
Power Station		





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CURRICULUM VITAE OF LISA OPPERMAN

Profession: Environmental Assessment Practitioner and GIS Consultant

Specialisation: Environmental Impact Assessments, Basic Assessments, Site Screening and Site Selection

reporting, compilation of maps through the use of ArcGIS

Work Experience: 4 years of experience in the environmental management and GIS field

VOCATIONAL EXPERIENCE

Lisa Opperman has four years of experience in the environmental field. She has worked on a variety of EIA processes including renewable energy projects, as well as industrial developments. She has also been involved in the undertaking of public participation for projects located in South Africa which has included the undertaking of public meetings, focus group meetings and key stakeholder meetings in both Afrikaans and English. She also has experience in working with ArcGIS 10 for the compilation of maps, the manipulation of data and screening for environmental sensitivities within areas with the potential for development.

SKILLS BASE AND CORE COMPETENCIES

- GIS Mapping
- EIA Report Writing
- Conducting of public involvement processes
- Administrative tasks
- Analysis and manipulation of geographical information and technical experience with the use of ArcGIS

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc. (Hons) Environmental Management (2014), North-West University, Potchefstroom
- B.A Psychology, Geography and Environmental Studies (2013), North-West University, Potchefstroom

Courses:

Environmental Legal Compliance and Auditing (2017), Janice Tooley at the Protea Hotel OR Thambo,
 Johannesburg

EMPLOYMENT

Date	Company	Roles and Responsibilities	
February 2015 – current	Savannah Environmental (Pty) Ltd	Environmental Assessment Practitioner and GIS	
		Consultant	
		Tasks include: Compilation of Environmental	
		Scoping Reports, Plan of Study, Environmental	
		Impact Assessment Reports, Basic Assessments	
		and Environmental management programmes;	
		Environmental Screening Reports; Specialist	
		management; project proposals and tenders;	
		Client liaison and Marketing; Process EIA	
		Applications, GIS Mapping and data analysis and	
		manipulation	

PROJECT EXPERIENCE

Renewable Power Generation Projects: Solar Energy Facilities

Screening Studies

Project Name & Location	Client Name	Role
Pre-feasibility Desktop Screening and Fatal Flaw	ABO Wind AG	EAP and GIS Consultant
Scan for a Solar PV Project near Lichtenburg, North		
West Province		
Pre-feasibility Desktop Screening and Fatal Flaw	ABO Wind AG	EAP and GIS Consultant
Scan for a Solar PV Project neat Aggeneys, Northern		
Cape Province		

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Buffels PV 1 & Buffels PV 2 Solar Energy Facilities near	Kabi Solar	EAP and GIS Consultant
Orkney, North West		
Woodhouse Solar 1 & Woodhouse Solar 2 PV	Genesis Eco-Energy	EAP and GIS Consultant
Facilities near Vryburg, North West	Developments	
Orkney Solar Farm, North West	Genesis Eco-Energy	EAP and GIS Consultant
	Developments	
Tewa Isitha Solar 1 & Tewa Isitha Solar 2 PV facilities	AfriCoast Energy	EAP and GIS Consultant
near Upington, Northern Cape		
Lichtenburg 1, Lichtenburg 2 and Lichtenburg 3 PV	ABO Wind AG	EAP and GIS Consultant
Facilities, near Lichtenburg, North West Province		
(EIA Phase)		

Basic Assessments

Project Name & Location	Client Name	Role
Harmony Gold 3x PV Facilities, Welkom, Free State	BBEntropie	EAP and GIS Consultant

Renewable power generation projects: Wind Energy Facilities

Screening Studies

Project Name & Location	Client Name	Role
Juno Wind Farm Screening Assessment Report near	AMDA Developments	EAP and GIS Consultant
Lamberts Bay, Western Cape Province		
Lamberts Bay Wind Farm Screening Assessment	Windy World	EAP and GIS Consultant
Report near Lamberts Bay, Western Cape Province		
Pre-feasibility Desktop Screening and Fatal Flaw	ABO Wind AG	EAP and GIS Consultant
Scan for the Kudusberg and Rondekop Wind Energy		
Facilities, Northern Cape and Western Cape		
Provinces		
Pre-feasibility Desktop Screening and Fatal Flaw	ABO Wind AG	EAP and GIS Consultant
Scan for Wind Projects near Touws River, Western		
Cape Province		

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Boulders Wind Farm, Western Cape Province	Vredenburg Windfarm	EAP and GIS Consultant
Namas Wind Farm, Northern Cape Province	Genesis Namas Wind (Pty) Ltd	EAP and GIS Consultant
Zonnequa Wind Farm, Northern Cape Province	Genesis Zonnequa Wind (Pty)	EAP and GIS Consultant
	Ltd	

Grid Infrastructure Projects

Basic Assessments

Project Name & Location	Client Name	Role
132/11kV Olifantshoek Substation and Power Line,	Eskom	EAP and GIS Consultant
Northern Cape		
Grid connection infrastructure for the Namas Wind	Genesis Namas Wind (Pty) Ltd	EAP and GIS Consultant
Farm, Northern Cape Province		
Grid connection infrastructure for the Zonnequa	Genesis Zonnequa Wind (Pty)	EAP and GIS Consultant
Wind Farm ,Northern Cape Province	Ltd	

Gas Projects

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Richards Bay Combined Cycle Power Plant (CCPP)	Eskom	EAP (assistance) and GIS
power plant, KwaZulu-Natal (Scoping Phase)		Consultant

Basic Assessments

Project Name & Location	Client Name	Role
Neopak Combined Heat and Power (CHP) Plant,	Neopak	EAP, Public Participation
Rosslyn, Gauteng		and GIS Consultant

Screening Studies

Project Name & Location	Client Name	Role
Richards Bay Combined Cycle Power Plant (CCPP)	Eskom	EAP and GIS Consultant
power plant, near Richards Bay, KwaZulu-Natal		

<u>Infrastructure Development Projects (bridges, pipelines, roads, etc)</u>

Basic Assessments

Project Name & Location	Client Name	Role
Water Treatment Plant at the Neopak Facility,	Neopak	EAP, Public Participation
Rosslyn, Gauteng		and GIS Consultant

Housing and Urban Projects

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Metals Industrial Cluster near Kuruman, Northern	Northern Cape Department	EAP and GIS Consultant
Cape	of Economic Development	
	and Tourism	

Environmental Management Tools

Environmental Management Programmes

Project Name & Location	Client Name	Role
Environmental Management Programme (EMPr) for	ACED	EAP
the Nxuba Wind Farm, Eastern Cape		
Operation Environmental Management	Cennergi	EAP
Programme (EMPr) for Phase 1 of the Amakhala		
Emoyeni Wind Energy Facility, Eastern Cape		
Operation Environmental Management	Cennergi	EAP
Programme (EMPr) for the Tsitsikamma Community		
Wind Energy Facility, Eastern Cape Province		
Environmental Management Programme (EMPr) for	Building Energy South Africa	EAP and GIS Consultant
the Skuitdrift 1 Solar PV Energy Facility near		
Augrabies, Northern Cape Province		
Environmental Management Programme (EMPr) for	Building Energy South Africa	EAP and GIS Consultant
the Skuitdrift 2 Solar PV Energy Facility near		
Augrabies, Northern Cape Province		

Environmental and Social Management System (ESMS)

Project Name & Location	Client Name	Role
Preparation of Policies and Plans for the Roggeveld	Building Energy South Africa	EAP assistance
Wind Farm, Western Cape Province		
Preparation of Policies and Plans for the Kruisvallei	Building Energy South Africa	EAP assistance
Hydro Scheme, Free State Province		



1st Floor, Block 2, 5 Woodlands Drive Office Park Woodlands Drive, Woodmead Johannesburg, South Africa

Email: nicolene@savannahsa.com

Tel: +27 (11) 656 3237

CURRICULUM VITAE OF NICOLENE VENTER

Profession: Public Participation and Social Consultant

Specialisation: Public participation process; stakeholder engagement; facilitation (workshops, focus

group and public meetings; public open days; steering committees); monitoring and

evaluation of public participation and stakeholder engagement processes

Work Experience: 21 years' experience as a Public Participation Practitioner and Stakeholder Consultant

VOCATIONAL EXPERIENCE

Over the past 21 years Nicolene established herself as an experienced and well recognised public participation practitioner, facilitator and strategic reviewer of public participation processes. She has experience in managing public participation projects and awareness creation programmes. Her experience includes designing and managing countrywide public participation and awareness creation projects, managing multi-project schedules, budgets and achieving project goals. She has successfully undertaken several public participation processes for EIA, BA and WULA projects. The EIA and BA process include linear projects such as the NMPP, Eskom Transmission and Distribution power lines as well as site specific developments such as renewable energy projects i.e. solar, photo voltaic and wind farms. She also successfully managed stakeholder engagement projects which were required to be in line with the Equator Principles.

SKILLS BASE AND CORE COMPETENCIES

- Project Management
- Public Participation, Stakeholder Engagement and Awareness Creation
- Public Speaking and Presentation Skills
- Facilitation (workshops, focus group meetings, public meetings, public open days, working groups and committees)
- Social Assessments (Stakeholder Analysis / Stakeholder Mapping)
- Monitoring and Evaluation of Public Participation and Stakeholder Engagement Processes
- Community Liaison
- IFC Performance Standards
- Equator Principles
- Minute taking, issues mapping, report writing and quality control

EDUCATION AND PROFESSIONAL STATUS

Degrees:

Higher Secretarial Certificate, Pretoria Technicon (1970)

Short Courses:

- Techniques for Effective Public Participation, International Association for Public Participation, IAP2 (2008)
- Foundations of Public Participation (Planning and Communication for Effective Public Participation, IAP2 (2009)
- Certificate in Public Relations, Public Relation Institute of South Africa, Damelin Management School (1989)

Professional Society Affiliations:

Board Member of International Association for Public Participation (IAP2): Southern Africa

EMPLOYMENT

Date	Company	Roles and Responsibilities
November 2018 –	Savannah Environmental (Pty) Ltd	Public Participation and Social Consultant
current		
		<u>Tasks include:</u>
		Tasks include: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.
		Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved.
2016 – October 2018	Imaginative Africa (Pty) Ltd	Independent Consultant
	(company owned by Nicolene Venter)	Consulting to various Environmental Assessment Practitioners for Public Participation and Stakeholder Engagements:
		<u>Tasks include:</u>
		Tasks include: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.
		Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project

		affected areas, attend to the level of technical
		information communicated to and consultation with all level of stakeholders involved
		<u>Clients</u> :
		SiVEST Environmental, Savannah Environmental, Baagi Environmental; Royal Haskoning DHV (previously SSI)
2013 - 2016	Zitholele Consulting	Senior Public Participation Practitioner and Project Manager
	Contact person: Dr Mathys Vosloo	
	Contact number: 011 207 2060	Tasks included:
		Project managed public participation process for
		EIA/BA/WULA/EAL projects. Manages two Public
		Participation Administrators. Public Participation
		tasks as outlined as above and including financial
		management of public participation processes.
2011 - 2013	Imaginative Africa (Pty) Ltd	Independent Consultant
	(company owned by Nicolene	Consulting to various Environmental Assessment
	Venter)	Practitioners for Public Participation and
		Stakeholder Engagements
		<u>Tasks included:</u>
		Drafting of a Public Participation Plan with key deliverable dates and methodology to be
		followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc.
		Managing interaction between Stakeholders and Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved
		Clients: Bohlweki Environmental, Bembani Sustainability (Pty) Ltd; Naledzi Environmental
2007 – 2011	SiVEST SA (Pty) Ltd	Unit Manager: Public Participation Practitioner
	Contact person: Andrea Gibb	<u>Tasks included:</u>
	Contact number: 011 798 0600	Project managed public participation process for
		EIA/BA projects. Manages two Junior Public
		Participation Practitioners. Public Participation

		tasks as outlined as above and including financial
		management of public participation processes.
2005 – 2006	Imaginative Africa (Pty) Ltd	Independent Consultant
	(company owned by Nicolene	Public Participation and Stakeholder
	Venter)	Engagement Practitioner
	vermely	Tasks included: Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, Tribal Chiefs, affected landowners, etc. Managing interaction between Stakeholders and
		Team Members, liaising with National, Provincial and Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical information communicated to and consultation with all level of stakeholders involved.
		<u>Clients:</u> Manyaka-Greyling-Meiring (previously Greyling Liaison and currently Golder Associates)
1997 - 2004	Imaginative Africa (Pty) Ltd (company owned by Nicolene Venter)	Independent Consultant: Public Participation Practitioner.
		<u>Tasks included:</u>
		Drafting of a Public Participation Plan with key deliverable dates and methodology to be followed, Background Information Document, Letters to Stakeholders and Interested and/or Affected Parties (I&APs) inclusive of key project deliverables and responses to questions / concerns raised; Stakeholder identification; facilitating stakeholder workshops, focus group and public meetings; conduct one-on-one consultation with Community Leaders, affected landowners, etc.
		Managing interaction between Stakeholders and Team Members, liaising with National, Provincial Local Authorities, managing community consultation and communications in project affected areas, attend to the level of technical

	information communicated to and consultation with all level of stakeholders involved.	
	<u>Clients:</u> Greyling Liaison (currently Golder Associates); Bembani Sustainability (Pty) Ltd; Lidwala Environmental; Naledzi Environmental	

PROJECT EXPERIENCE

RENEWABLE POWER GENERATION PROJECTS: PHOTOVOLTAIC SOLAR ENERGY FACILITIES

Project Name & Location	Client Name	Role
Lichtenburg PVs (3 PVs) & Power Lines (grid	Atlantic Energy Partners	Project Manage the Public
connection), Lichtenburg, North West Province	EAP: Savannah Environmental	Participation Process
		Facilitate all meetings
Allepad PVs 4 PVs) & Power Lines (grid	IL Energy	Consultation with
connection), Upington, Northern Cape Province	EAP: Savannah Environmental	Government Officials, Key
		Stakeholders, Landowners &
Hyperion Solar PV Developments (4 PVs) and	Building Energy	Community Leaders
Associated Infrastructures, Kathu, Northern Cape	EAP: Savannah Environmental	
Province		
Aggeneys Solar PV Developments (2 PVs) and	Atlantic Energy Partners and	
Associated Infrastructures, Aggeneys, Northern	ABO Wind	
Cape Province	EAP: Savannah Environmental	

Project Name & Location	Client Name	Role
Tlisitseng PV, including Substations & Power Lines,	BioTherm Energy	Public Participation,
Lichtenburg, North West Province	EAP: SIVEST	Landowner and Community
Sendawo PVs, including Substations & Power Lines,		Consultation
Vryburg, North West Province		
Helena Solar 1, 2 and 3 PVs, Copperton, Northern		
Cape Province		
Farm Spes Bona 23552 Solar PV Plants,	Surya Power	Public Participation,
Bloemfontein, Free State Province	EAP: SIVEST	Landowner and Community
		Consultation
De Aar Solar Energy Facility, De Aar, Northern	South Africa Mainstream	Public Participation,
Cape Province	Renewable Power	Landowner and Community
Droogfontein Solar Energy Facility, Kimberley,	Developments	Consultation
Northern Cape Province	EAP: SIVEST	
Kaalspruit Solar Energy Facility, Loeriesfontein,		
Northern Cape Province		
Platsjambok East PV, Prieska, Northern Cape		
Province		
Renosterburg PV, De Aar, Northern Cape Province	Renosterberg Wind Energy	Public Participation,
	Company	Landowner and Community
	EAP: SIVEST	Consultation

19MW Solar Power Plant on Farm 198 (Slypklip),	Solar Reserve South Africa	Public Participation,
Danielskuil, Northern Cape Province	EAP: SIVEST	Landowner and Community
		Consultation

Basic Assessments and Environmental Management Programmes – Located within the Renewable Energy Development Zones (REDZ)

Project Name & Location	Client Name	Role
Moeding Solar PV Solar Energy Facility, Vryburg,	Kabi Solar	Project Manage the Public
North West Province	EAP: Savannah Environmental	Participation Process
		Facilitate all meetings
Sirius Solar PV Solar Energy Facility, Upington,		Consultation with
Northern Cape Province	EAP: Savannah Environmental	Government Officials, Key
		Stakeholders, Landowners &
		Community Leaders

RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Aletta Wind Farm, Copperton, Northern Cape	BioTherm Energy	Public Participation
Province	EAP: SIVEST	
Eureka Wind Farm, Copperton, Northern Cape		
Province		
Loeriesfontein Wind Farm, Loeriesfontein, Northern	South Africa Mainstream	Public Participation
Cape Province	Renewable Power	
Droogfontein Wind Farm, Loeriesfontein, Northern	Developments	
Cape Province	EAP: SIVEST	
Four Leeuwberg Wind Farms, Loeriesfontein,		
Northern Cape Province		
Noupoort Wind Farm, Noupoort, Northern Cape		
Province		
Mierdam PV & Wind Farm, Prieska, Northern Cape		
Province		
Platsjambok West Wind Farm & PV, Prieska,		
Northern Cape Province		

Basic Assessments and Environmental Management Programmes – Located within the Renewable Energy Development Zones (REDZ)

Client Name	Role
Genesis ECO	Project Manage the Public
EAP: Savannah Environmental	Participation Process
	Facilitate all meetings
	Consultation with
	Government Officials, Key
	Stakeholders, Landowners
	& Community Leaders
	Genesis ECO

Environmental Authorisation Amendments

Project Name & Location	Client Name	Role
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Beaufort West 280MW Wind Farm into two 140MW	South Africa Mainstream	Public Participation
Trakas and Beaufort West Wind Farms, Western	Renewable Power	
Cape	Developments	
	EAP: SIVEST	

RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Upington Concentrating Solar Plant and	Eskom Holdings	Public Participation
associated Infrastructures, Northern Cape	EAP: Bohlweki Environmental	
Provionce		

GRID INFRASTRUCTURE PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Pluto-Mahikeng Main Transmission Substation and	Eskom Holdings	
400kV Power Line (Carletonville to Mahikeng),	EAP: Baagi Environmental	
Gauteng and North West Provinces		
Thyspunt Transmission Lines Integration Project,	Eskom Holdings	Public Participation,
Eastern Cape Province	EAP: SIVEST	Landowner and Community
		Consultation
Westrand Strengthening Project, Gauteng Province		
Mookodi Integration Project, North-West Province		Public Participation,
Transnet Coallink, Mpumalanga and KwaZulu-Natal		Tobile Famelpation,
Provinces		
Delarey-Kopela-Phahameng Distribution power line		
and newly proposed Substations, North-West		Public Participation,
Province		Landowner and Community
Invubu-Theta 400kV Eskom Transmission Power Line,	Eskom Holding	Consultation
KwaZulu-Natal Province	EAP: Bembani Environmental	

Facilitation

Project Name & Location	Client Name	Meeting Type
Bloemfontein Strengthening Project, Free State	Eskom Holdings	Public Meetings
Province	EAP: Baagi Environmental	
Mooidraai-Smitkloof 132kV Power Line and	Eskom Holdings	Focus Group Meetings
Substation, Northern Cape Province	EAP: SSI	
Aggeneis-Oranjemond 400kV Eskom Transmission	Eskom Holdings	Focus Group Meetings &
Power Line, Northern Cape Province	EAP: Savannah Environmental	Public Meetings
Ariadne-Eros 400kV/132kV Multi-Circuit Transmission	Eskom Holdings	Public Meetings
Power Line (Public Meetings)	EAP: ACER Africa	
Majuba-Venus 765kV Transmission Power Lines,	1	Public Meetings
Mpumlanaga Province		/

Basic Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role

Melkhout-Kudu-Grassridge 132kV Power Line	Eskom Holdings	Public Participation,
Project (project not submitted to DEA), Eastern	EAP: SIVEST	Landowner and Community
Cape Province		Consultation
Tweespruit-Welroux-Driedorp-Wepener 132Kv]	Public Participation,
Power Line, Free State Province		Landowner and Community
		Consultation
Kuruman 132Kv Power Line Upgrade, Northern	Eskom Holdings	Public Participation,
Cape Province	EAP: Zitholele	Landowner and Community
		Consultation
Vaalbank 132Kv Power Line, Free State Province]	Public Participation,
		Landowner and Community
		Consultation
Pongola-Candover-Golela 132kV Power Line	_	Public Participation,
(Impact Phase), KwaZulu-Natal Province		Landowner and Community
		Consultation
Ndumo-Geziza 132kV Power Line, KwaZulu-Natal	1	Public Participation,
Province		Landowner and Community
		Consultation

Screening Studies

Client Name	Role
Nelson Mandela Bay	Social Assessment
Municipality	
	Nelson Mandela Bay

CONVENTIONAL POWER GENERATION PROJECTS (COAL, GAS AND ASSOCIATED INFRASTRUCTURE)

Stakeholder Engagement

Project Name & Location	Client Name	Role
Determination, Review and Implementation of the	Department of Water and	Secretarial Services
Reserve in the Olifants/Letaba System	Sanitation	
Orange River Bulk Water Supply System	Golder Associates	
Levuvu-Letaba Resources Quality Objectives		

Facilitation

Project Name & Location	Client Name	Meeting Type
Thabametsi IPP Power Station, Limpopo Province	Thabametsi Power Company	Focus Group Meeting &
	EAP: Savannah Environmental	Public Meeting

Project Name & Location	Client Name	Role
Richards Bay Combined Cycle Power Plant,	Eskom Holdings	Public Participation
Richards Bay, Kwa-Zulu Natal Province (Impact	EAP: Savannah Environmental	
Phase)		
Medupi Flue Gas Desulphurisation Project (up to	Eskom Holdings SOC Ltd	Public Participation,
completion of Scoping Phase), Limpopo Province	EAP: Zitholele Consulting	Landowner and Community
Kendal 30-year Ash Disposal Facility, Mpumalanga		Consultation
Province		
Kusile 60-year Ash Disposal Facility, Mpumalanga		
Province		

Camden Power Station Ash Disposal Facility,		
Mpumalanga Province		
Tutuka Fabric Filter Retrofit and Dust Handling Plant	Eskom Holdings SOC Ltd	Public Participation,
Projects, Mpumalanga Province	EAP: Lidwala Environmental	Landowner and Community
		Consultation
Eskom's Majuba and Tutuka Ash Dump Expansion,		Public Participation,
Mpumalanga Province		Landowner and Community
		Consultation
Hendrina Ash Dam Expansion, Mpumalanga		Public Participation,
Province		Landowner and Community
		Consultation

INFRASTRUCTURE DEVELOPMENT PROJECTS (BRIDGES, PIPELINES, RAILWAY LINES, ROADS, WATER RESOURCES, STORAGE FACILITIES, ETC)

Facilitation

Project Name & Location	Client Name	Meeting Type
Determination, Review and Implementation of the	Department of Water and	Secretarial Services
Reserve in the Olifants/Letaba System	Sanitation	
	Golder Associates	
Orange River Bulk Water Supply System	Department of Water and	Secretarial Services
	Sanitation	
	Golder Associates	
Levuvu-Letaba Resources Quality Objectives	Department of Water and	Secretarial Services
	Sanitation	
	Golder Associates	
SmancorCR Chemical Plant (Public Meeting),	Samancor Chrome (Pty) Ltd	Public Meeting
Gauteng Province	EAP: Environment al Science	
	Associates	
SANRAL N4 Toll Highway Project (2 nd Phase),	Department of Transport	Public Meetings
Gauteng & North West Provinces	EAP:	

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Transnet's New Multi-Products Pipeline traversing	Transnet	Public Participation
Kwa-Zulu Natal, Free State and Gauteng Provinces	EAP: Bohlweki Environmental	

Basic Assessments

Project Name & Location	Client Name	Role
Realignment of the Bulshoek Dam Weir near Klawer	Dept of Water and Sanitation	Public Participation
and the Doring River Weir near Clanwilliam,	EAP: Zitholele	
Western Cape Province		

MINING SECTOR

·		
Project Name & Location	Client Name	Role
Zero Waste Recovery Plant at highveld Steel,	Anglo African Metals	Public Participation
Mpumalanga Province	EAP: Savannah Environmental	
Koffiefontein Slimes Dam, Free State Province	Petra Diamond Mines	Public Participation
	EAP: Zitholele	

Baobab Project: Ethenol Plant, Chimbanje, Middle	Applicant: Green Fuel	Public Participation &
Sabie, Zimbabwe	EAP: SIVEST	Community Consultation
BHP Billiton Energy Coal SA's Middelburg Water	BHP Billiton Group	Public Participation
Treatment Plant, Mpumalanaa	EAP: Jones & Wagener	

Short CV/Summary of Expertise - Simon Todd



Simon Todd Pr.Sci.Nat

C: 082 3326502 O: 021 782 0377 Simon.Todd@3foxes.co.za

60 Forrest Way Glencairn 7975 People & the Environment

Professional Profile

Simon Todd has extensive experience in biodiversity management and ecological assessment across South African ecosystems. This includes a variety of broad-scale strategic assessments and best-practice guidelines for a range of industries. In addition, Simon Todd has conducted a large amount of research on the impacts of land-use on biodiversity and has published numerous scientific papers in international peer-reviewed journals on this topic. Simon Todd is a recognised ecological expert and is a past chairman and current executive committee member of the Arid-Zone Ecology Forum and has over 20 years' experience working throughout the country. Simon Todd is registered with the South African Council for Natural Scientific Professions (No. 400425/11).

Recent notable projects include:

- First-author of a book chapter on the ecological impacts of Shale Gas development on the Karroo of South Africa. (2017)
- Co-author on the Biodiversity chapter of the Shale Gas SEA being conducted by CSIR. (2016)
- Co-author on the Eskom Grid Infrastructure SEA, managed by CSIR. (2016)
- Co-author on the Wind and Solar SEA, managed by CSIR. (2015)

Abbreviated CV

• Profession: Independent Ecological Consultant - Pr.Sci.Nat 400425/11

Specialisation: Plant & Animal Ecology

• Years of Experience: 20 Years

Skills & Primary Competencies

- Research & description of ecological patterns & processes in Thicket, Savannah Nama Karoo,
 Succulent Karoo, Arid Grassland and Fynbos Ecosystems.
- Ecological Impacts of land use on biodiversity and provision of associated management advice.

- Vegetation surveys & degradation assessment & mapping
- Long-term vegetation monitoring
- Faunal surveys & assessment.
- GIS & remote sensing

Tertiary Education:

- 1992-1994 BSc (Botany & Zoology), University of Cape Town
- 1995 BSc Hons, Cum Laude (Zoology) University of Natal
- 1996-1997- MSc, Cum Laude (Conservation Biology) University of Cape Town

Employment History

- 1997 1999 Research Scientist (Contract) South African National Biodiversity Institute
- 2000-2004 Specialist Scientist (Contract) South African National Biodiversity Institute
- 2004-2007 Senior Scientist (Contract) Plant Conservation Unit, Department of Botany,
 University of Cape Town
- 2007-Present Senior Scientist (Associate) Plant Conservation Unit, Department of Botany, University of Cape Town.
- 2010-Present Self-employed as consultant and sole proprietor of Simon Todd Consulting, which has conducted more than 150 specialist assessments.

General Experience & Expertise

- Lead ecologist on several SEA chapters, including Eskom Grid Infrastructure, Wind and Solar SEA and Shale Gas SEA.
- Conducted a large number of fauna and flora specialist assessments distributed widely across South Africa. Projects have ranged in extent from <50 ha to more than 50 000 ha.
- Widely-recognized ecology specialist. Published numerous peer-reviewed scientific publications based on various ecological studies across the country. Past chairman of the Arid Zone Ecology Forum and current executive committee member.
- Extensive field and personal experience across a broad range of South African ecosystems, with particular focus on the Western, Northern and Eastern Cape.
- Strong research background which has proved invaluable when working on ecologically sensitive and endangered ecosystems, habitats and species.
- Published numerous research reports as well as two book chapters and a large number of papers in leading scientific journals dealing primarily with human impacts on the vegetation and ecology of South African ecosystems.
- Maintain several long-term vegetation monitoring projects which have led to several publications.
- Guest lecturer at two universities and have also served as an external examiner.
- Reviewed papers for more than 12 international ecological journals.
- SACNASP registered as a Professional Natural Scientist, (Ecology) No. 400425/11.

Current Committees

- SANBI Vegmap Committee 2015 present
- CSIR Wind and Solar SEA Phase II advisory committee 2016-present
- AZEF deputy chair 2012-present
- SANBI Karoo Biogaps Taxon leads' committee and executive committee member.

Recent & Relevant Outputs & Publications

Strategic Environmental Assessments

Co-Author. Chapter 7 - Biodiversity & Ecosystems - Shale Gas SEA. CSIR 2016.

Co-Author. Chapter 1 Scenarios and Activities – Shale Gas SEA. CSIR 2016.

Co-Author – Ecological Chapter – Wind and Solar SEA. CSIR 2014.

Co-Author – Ecological Chapter – Eskom Grid Infrastructure SEA. CSIR 2015.

Contributor – Ecological & Conservation components to SKA SEA. CSIR 2017.

Specialist Fauna and Flora Assessments:

Specialist Ecological studies for many different developments distributed across the country including:

- Over 30 Wind Energy projects
- More than 60 Solar Energy developments
- More than 30 different housing, roads, mining and other infrastructure development projects.
- More than 20 electricity transmission infrastructure projects.

A full list of projects is available on request.

Eric Herrmann

Eric Herrmann is an avifaunal specialist with over 15 years of experience in biodiversity research and conservation in the Northern Cape. He completed a B.Tech Degree in Nature Conservation (1999) at the Cape Technikon, followed by a Masters in Conservation Ecology at the University of Stellenbosch (2004). He has worked as a research assistant for the Endangered Wildlife Trust (1999-2001) in the Kgalagadi Transfrontier Park, and then for the Percy FitzPatrick Institute of African Ornithology (University of Cape Town) as project manager of a field research centre near Kimberley (2003 to 2006). In 2006 he joined the provincial Department of Environment and Nature Conservation (DENC) in Kimberley as a faunal scientist until 2012. Since 2016 he has been working independently as an avifaunal specialist largely on wind and solar energy projects in the Western and Northern Cape.

Tertiary Education:

- 1994 1997 National Diploma: Nature Conservation (cum laude), Cape Technikon
- 1998 1999 B.Tech Degree: Nature Conservation (cum laude), Cape Technikon
- 2000 2004 MFor: Conservation Ecology (cum Laude), University of Stellenbosch
- Employment History
- 2016 Present Independent contractor, avifaunal specialist for renewable energy projects.
- 2006 2012 Senior Conservation Scientist, Department of Environment and Nature Conservation, Kimberley.
- 2003 2006 Research Assistant and Field Projects Manager, Percy Fitzpatrick Institute of African Ornithology, Cape Town
- 2001 2002 Field Researcher, Deciduous Fruit Producers Trust, Stellenbosch.
- 1999 2001 Research Assistant, Endangered Wildlife Trust, Johannesburg.

Recent Specialist Ecological Studies in the vicinity of the current site

- Allepad Solar PV Facility, Upington. Avifaunal Specialist Report. Savannah Environmental. 2018/19.
- Aggeneys Solar PV Facility, Aggeneys. Avifaunal Specialist Report. Savannah Environmental.
 2018/19.
- Gaetsewe Solar PV Facility, Kathu. Avifaunal Specialist Report. Cape EAPrac 2018.
- Mogara Solar PV Facility, Kathu. Avifaunal Specialist Report. Cape EAPrac 2018.
- Kathu Hyperion Solar PV Facility, Kathu. Avifaunal Specialist Report. Cape EAPrac 2018.

CURRICULUM VITAE Dr Brian Michael Colloty

Profession: Ecologist & Environmental Assessment Practitioner (Pr. Sci. Nat. 400268/07 & EAPSA

certified)

Specialisation: Ecology and conservation importance rating of inland habitats, wetlands, rivers & estuaries

Years experience: 20 years

SKILLS BASE AND CORE COMPETENCIES

20 years experience in environmental sensitivity and conservation assessment of aquatic and terrestrial
systems inclusive of Index of Habitat Integrity (IHI), WET Tools, Riparian Vegetation Response
Assessment Index (VEGRAI), estuarine and wetland delineation throughout Africa. Experience also
includes biodiversity and ecological assessments with regard sensitive fauna and flora, within the marine,
coastal and inland environments. Countries include Mozambique, Kenya, Namibia, Central African
Republic, Zambia, Eritrea, Mauritius, Madagascar, Angola, Ghana, Guinea-Bissau and Sierra Leone.

- 12 years experience in the coordination and management of multi-disciplinary teams, such as specialist teams for large scale EIAs and environmental monitoring programmes, throughout Africa and inclusive of marine, coastal and inland systems.
- GIS mapping and sensitivity analysis
- Estuarine conservation (vegetation and habitat specialist)

TERTIARY EDUCATION

1994: B Sc Degree (Botany & Zoology) - NMMU

1995: B Sc Hon (Zoology) - NMMU
 1996: M Sc (Botany) - NMMU
 2000: Ph D (Botany) - NMMU

EMPLOYMENT HISTORY

- 1996 2000 Researcher at Nelson Mandela Metropolitan University SAB institute for Coastal Research & Management.
- 2001 January 2003 Training development officer AVK SA
- February 2003- June 2005 Project manager & Ecologist for Strategic Environmental Focus (Pretoria)
- July 2005 June 2009 Principal Environmental Consultant Coastal & Environmental Services
- June 2009 present Owner / Ecologist of Scherman Colloty & Associates cc

SELECTED RELEVANT PROJECT EXPERIENCE

- Transnet Freight Rail Swazi Rail Link (Current) wetland and ecological assessment on behalf of Aurecon for the proposed rail upgrade from Ermelo to Richards Bay
- Eskom Transmission wetland and ecological assessment for the proposed transmission line between Pietermaritzburg and Richards Bay on behalf of Aurecon (2012).
- Port Durnford Exarro Sands biodiversity assessment for the proposed mineral sands mine on behalf of Exxaro (2009)
- Fairbreeze Mine Exxaro (Mtunzini) wetland assessment on behalf of Strategic Environmental Services (2007).
- Wetland assessment for Richards Bay Minerals (2013) Zulti North haul road on behalf of RBM.
- Biodiversity and aquatic assessments for 68 renewable projects in the past three years in the Western, Eastern, Northern Cape, KwaZulu-Natal and Free State provinces. Clients included RES-SA, RedCap, ACED Renewables, Mainstream Renewable, GDF Suez, Globeleq, ENEL, Abengoa amongst others. Particular aquatic sensitivity assessment and Water Use License Applications on behalf of Mainstream Renewable Energy (8 wind farms and 3 PV facilities.), Cennergi / Exxaro (1 Wind farm), WKN Wind current (2 wind farms & 2 PV facilities), ACED (6 wind farms) and Windlab (3 Wind farms) were also conducted. Several of these projects also required the assessment of the proposed transmission lines and switching stations, which were conducted on behalf of Eskom.
- Vegetation assessments on the Great Brak rivers for Department of Water and Sanitation, 2006 and the Gouritz Water Management Area (2014)
- Farim phosphate mine and port development, Guinea Bissau biodiversity and estuarine assessment on behalf of Knight Piesold Canada current.
- Tema LNG offshore pipeline EIA marine and estuarine assessment for Quantum Power (on-going).
- Colluli Potash South Boulder, Eritrea, SEIA marine baseline and hydrodynamic surveys co-ordinator and coastal vegetation specialist (coastal lagoon and marine) (on-going).
- Various wetland (85) and marine and biodiversity assessments for the Savannah Environmental, Gibb Consulting, AECOM, CSIR and EOH-CES, 1996, 2006, 2009, 2010, 2011, 2012, 2013 and 2014
- Proposed FibreCo fibre optic cable vegetation assessment along the N2, PE to Cape Town, 2012 on behalf of SRK (2013).
- Wetland, estuarine and riverine assessment for Addax Biofeuls Sierra Leone, Makeni for Coastal & Environmental Services: 2009
- Project manager long-term, marine monitoring phase with regards the dredge works required in Luanda bay,

Angola, M	onitorina include:	s water quality	v and biologica	al changes in the ba	v and offshore dis	sposal, 2005-2011

CURRICULUM VITAE

A. Personal Details

Last name: Pienaar First name: Mariné

Nationality: South African

Employment: Self-employed (Consultant)

B. Contact Details

Email address: mpienaar@terraafrica.co.za

Website: www.terraafrica.co.za

Mailing address: PO Box 433, Ottosdal, 2610

Telephone: +27828283587

Address: 57 Kruger Street, Wolmaransstad, 2630, Republic of South Africa

Current Job: Lead Consultant and Owner of Terra Africa Consult

C. Concise biography

Mariné Pienaar is a professionally registered soil- and agricultural scientist (SACNASP) who has consulted extensively for the past eleven years in the fields of soil, land use and agriculture in several African countries. These countries include South Africa, Liberia, Ghana, DRC, Mozambique, Botswana, Angola, Swaziland and Malawi. She has worked with mining houses, environmental consulting companies, Eskom, government departments as well as legal and engineering firms. She conducted more than three hundred specialist studies that included baseline soil assessment and rehabilitation planning for new projects or expansion of existing projects, soil quality monitoring, land rehabilitation assessment and monitoring, natural resource assessment as part of agricultural project planning, evaluation and development of sustainable agriculture practices, land use assessment and livelihood restoration planning as part of resettlement projects and land contamination risk assessments. She holds a BSc. Agriculture degree with specialisation in Plant Production and Soil Science from the University of Pretoria and a MSc in Environmental Science from the University of the Witwatersrand. In addition to this, she has attended a number of

courses in Europe, the USA and Israel in addition to those attended in South Africa. Mariné is a contributing author of a report on the balance of natural resources between the mining industry and agriculture in South Africa (published by the Bureau for Food and Agricultural Policy, 2015).

D. Qualifications

Academic Qualifications:

- MSc Environmental Science; University of Witwatersrand, South Africa, 2018
- BSc (Agric) Plant Production and Soil Science; University of Pretoria, South Africa, 2004
- Senior Certificate / Matric; Wolmaransstad High School, South Africa, 2000

Courses Completed:

- World Soils and their Assessment; ISRIC World Soil Information,
 Wageningen, 2015
- Intensive Agriculture in Arid- and Semi-Arid Environments Gilat Research
 Centre, Israel, 2015
- Hydrus Modelling of Soil-Water-Leachate Movement; University of KwaZulu-Natal, South Africa, 2010
- Global Sustainability Summer School 2012; Institute for Advanced Sustainability Studies, Potsdam, Germany, 2012
- Wetland Rehabilitation; University of Pretoria, South Africa, 2008
- Enviropreneurship Institute; Property and Environment Research Centre [PERC], Montana, U.S.A., 2011
- Youth Encounter on Sustainability; ACTIS Education [official spin-off of ETH Zürich], Switzerland, 2011
- Environmental Impact Assessment | Environmental Management Systems –
 ISO 14001:2004 | Environmental Law; University of Potchefstroom, South Africa, 2008
- Carbon Footprint Analyst Level 1; Global Carbon Exchange Assessed, 2011
- Negotiation of Financial Transactions; United Nations Institute for Training and Research, 2011
- Food Security: Can Trade and Investment Improve it? United Nations Institute for Training and Research, 2011

E. Language ability

Perfectly fluent in English and Afrikaans (native speaker of both) and conversant in French.

F. Professional Experience

Name of firm Terra Africa Environmental Consultants

Designation Owner | Principal Consultant

Period of work December 2008 to Date

G. Prior Tenures

Integrated Development Expertise (Pty) Ltd; **Junior Land Use Consultant** [July 2006 to October 2008]

Omnia Fertilizer (Pty) Ltd; **Horticulturist and Extension Specialist** [January 2005 to June 2006]

H. Professional Affiliations

- South African Council for Natural Scientific Professions [SACNASP]
- Soil Science Society of South Africa [SSSA]
- Soil Science Society of America
- South African Soil Surveyors' Organisation [SASSO]
- International Society for Sustainability Professionals [ISSP]

Summary of a selected number of projects completed successfully:

[Comprehensive project dossier available on request]

- Sekoko Railway Alignment and Siding Soil, Land Use and Capability Study in close proximity to the Medupi Power Station in the Lephalale area, Limpopo Province.
- Italthai Rail and Port Projects, Mozambique The study included a thorough assessment
 of the current land use practices in the proposed development areas including
 subsistence crop production and fishing as well as livestock farming and forestry
 activities. All the land uses were mapped and intrinsically linked to the different soil

types and associated land capabilities. This study was used to develop Livelihood Restoration Planning from.

- Bomi Hills Railway Alignment Project, Liberia: soil, land use and agricultural scientist for field survey and reporting of soil potential, current land use activities and existing soil pollution levels, as well as associated infrastructure upgrades of the port, road and railway.
- Kingston Vale Waste Facility, Mpumalanga Province, South Africa: Soil and vegetation
 monitoring to determine the risk of manganese pollution resulting from activities at the
 waste facility.
- Keaton Mining's Vanggatfontein Colliery, Mpumalanga: Assessment of soil
 contamination levels in the mining area, stockpiles as well as surrounding areas as part
 of a long-term monitoring strategy and rehabilitation plan.
- Richards Bay Minerals, KwaZulu-Natal: Contaminated land assessment of community vegetable gardens outside Richards Bay as a result of spillages from pipelines of Rio Tinto's Richards Bay Minerals Mine.
- Buffelsfontein Gold Mine, Northwest Province, South Africa: Soil and land contamination risk assessment for as part of a mine closure application. Propose soil restoration strategies.
- Glenover Phosphate Mining Project near Steenbokpan in the Lephalale area Soil, Land Use and Land Capability Study as part of the environmental authorisation process.
- Waterberg Coal 3 and 4 Soil, Land Use and Land Capability Study on 23 000 ha of land around Steenbokpan in the Lephalale area.
- Lesotho Highlands Development Agency, development of Phase II (Polihali Dam and associated infrastructure): External review and editing of the initial Soil, Land Use and Land Capability Assessment as requested by ERM Southern Africa.
- Tina Falls Hydropower Project, Eastern Cape, South Africa: Soil, land use and land capability assessment as part of the ESIA for the construction of a hydropower plant at the Tina Falls.

- Graveyard relocation as part of Exxaro Coal's Belfast Resettlement Action Plan: Soil
 assessment to determine pedohydrological properties of the relocation area in order to
 minimise soil pollution caused by graveyards.
- Rhino Oil Resources: Strategic high-level soil, land use and land capability assessment
 of five proposed regions to be explored for shale gas resources in the KwaZulu-Natal,
 Eastern Cape, North-West and Free State provinces of South Africa.
- Eskom Kimberley Strengthening Phase 4 Project, Northern Cape & Free State, South Africa: soil, agricultural potential and land capability assessment.
- Mocuba Solar Project, Mozambique The study included a land use assessment together with that of the soil and land capabilities of the study area. All current land uses were documented and mapped and the land productivity was determined. This study advocated the resettlement and livelihood restoration planning.
- Botswana (Limpopo-Lipadi Game Reserve). Soil research study on 36 000 ha on the banks of the Limpopo River. This soil study forms part of an environmental management plan for the Limpopo-Lipadi Game Reserve situated here as well as the basis for the Environmental Impact Assessment for the development of lodges and Land Use Management in this area.
- TFM Mining Operations [proposed] Integrated Development Zone, Katanga, DRC [part of mining concession between Tenke and Fungurume]: soil and agricultural impact assessment study.
- Closure Strategy Development for Techmina Mining Company Lucapa, Angola.
 Conducted an analysis of the natural resources (soil, water) to determine the existing
 environmental conditions on an opencast diamond mine in Angola. The mine currently
 experience severe problems with kimberlite sediment flowing into the river. A plan is
 currently being developed to change the mining area into a sustainable bamboo farming
 operation.
- Closure of sand mining operations, Zeerust District. Successfully conducted the closure application of the Roos Family Sand Mine in the Zeerust District. Land Use

Management Plans for rehabilitated soil were developed. The mine has closed now and the financial provision has been paid out to the applicant.

- ESIA for [proposed] Musonoi Mine, Kolwezi area, Katanga, DRC: soil, land use and land capability assessment.
- Bauba A Hlabirwa Moeijelik Platinum mine [proposed] project, Mpumalanga, South Africa: soil, land use and land capability assessment and impact on agricultural potential of soil.
- Commissiekraal Coal Mine [proposed] project, KwaZulu-Natal, South Africa: sustainable soil management plans, assessment of natural resource and agricultural potential and study of the possible impacts of the proposed project on current land use. Soil conservation strategies included in soil management plan.
- Cronimet Chrome Mine [proposed] project, Limpopo Province, South Africa: soil, land use and land capability of project area and assessment of the impacts of the proposed project.
- Moonlight Iron Ore Land Use Assessment, South Africa Conducted a comprehensive land use assessment that included interviews with land users in the direct and indirect project zones of influence. The study considered all other anticipated social and environmental impacts such as water, air quality and noise and this was incorporated into a sensitivity analysis of all land users to the proposed project.
- Project Fairway Land Use Assessment, South Africa The study included an analysis of all land users that will directly and indirectly be influenced by the project. It analysed the components of their land uses and how this components will be affected by the proposed project. Part of the study was to develop mitigation measures to reduce the impact on the land users.
- Bekkersdal Urban Renewal Project Farmer Support Programme, Independent consultation on the farmer support programme that forms part of Bekkersdal Renewal Project. This entailed the production of short and long term business plans based on soil and water research conducted. Part of responsibilities were the evaluation of current irrigation systems and calculation of potential water needs, etc. as well as determining quantities and prices of all project items to facilitate the formalisation of tender documents.

- Area-based agricultural business plans for municipalities in Dr. Kenneth Kaunda Municipal District. Evaluation of the agricultural and environmental status of the total district as well as for each municipality within the district. This included the critical evaluation of current agricultural projects in the area. The writing of sustainable, executable agricultural business plans for different agricultural enterprises to form part of the land reform plans of each Municipality within the district.
- Batsamaya Mmogo, Hartswater. Conducted a soil and water assessment for the farm and compiled management and farming plans for boergoats grazing on Sericea lespedeza with pecan nuts and lucerne under irrigation.
- Anglo Platinum Twickenham Mine Irrigated Cotton Project. Project management of an
 irrigated cotton production project for Twickenham Platinum Mine. This project will
 ensure that the community benefit from the excess water that is available from the mine
 activities.
- Grasvally Chrome (Pty) Ltd Sylvania Platinum [proposed] Project, Limpopo Province, South Africa: Soil, land use and agricultural potential assessment.
- Jeanette Gold mine project [reviving of historical mine], Free State, South Africa: Soil, land use and agricultural potential assessment.
- Kangra Coal Project, Mpumalanga, South Africa: Soil conservation strategies proposed to mitigate the impact of the project on the soil and agricultural potential.
- Richards Bay Integrated Development Zone Project, South Africa [future development includes an additional 1500 ha of land into industrial areas on the fringes of Richards Bay]: natural resource and agricultural potential assessment, including soil, water and vegetation.
- Exxaro Belfast Coal Mine [proposed] infrastructure development projects [linear: road and railway upgrade | site-specific coal loading facilities]: soil, land capability and agricultural potential assessment.
- Marikana In-Pit Rehabilitation Project of Aquarius Platinum, South Africa: soil, land capability and land use assessment.

- Eskom Bighorn Substation proposed upgrades, South Africa: soil, land capability and agricultural potential assessment.
- Exxaro Leeuwpan Coal Mining Right Area, South Africa: consolidation of all existing soil and agricultural potential data. Conducted new surveys and identified and updated gaps in historic data sets.
- Banro Namoya Mining Operation, DRC: soil, land use and agricultural scientist for field survey and reporting of soil potential, current land use activities and existing soil pollution levels, including proposed project extension areas and progressive soil and land use rehabilitation plan.
- Kumba Iron Ore's Sishen Mine, Northern Cape, South Africa: soil, land use and agricultural scientist | Western Waste Rock Dumps [proposed] Project: soil, land use and agricultural potential assessment, including recommendations regarding stripping/stockpiling and alternative uses for the large calcrete resources available.
- Vetlaagte Solar Development Project, De Aar, South Africa: soil, land use and agricultural scientist. Soil, land use and agricultural potential assessment for proposed new 1500 ha solar development project, including soil management plan.

CURRICULUM VITAE

Jenna Lavin

Tel: 083 619 0854 (c) E-mail address: jenna.lavin@ctsheritage.com ID number: 8512050014089

Address: 103 D'Urban St, Bothasia, Cape Town

EDUCATION:

Tertiary	ı
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2014 M.Phil in Conservation of the Built Environment (University of Cape Town)

Not completed as of 2019

2011 Continued Professional Development Course in Urban Conservation

Management (University of Cape Town) Part I and Part II

2010 M.Sc. with Distinction in Archaeology (University of Cape Town)

Title: Palaeoecology of the KBS member of the Koobi Fora Formation: Implications for

Pleistocene Hominin Behaviour.

2007 B.Sc. Honours in Archaeology (University of Cape Town)

Title: The Lost Tribes of the Peninsula: An Investigation into the historical distribution of

Chacma baboons (Papio ursinus) at the Cape Peninsula, South Africa.

Koobi Fora Field School, Rutgers University (U.S.A.)/ National Museums of Kenya

2006 B.Sc. Archaeology (University of Cape Town)

B.Sc. Environmental and Geographic Science (University of Cape Town)

Secondaru

1999-2003 Rustenburg High School for Girls

Firsts in English, Afrikaans, Mathematics HG, Biology HG, History HG, Entrepreneurship.

EMPLOYMENT HISTORY:

PROFESSIONAL DEVELOPMENT

Environmental and Heritage Management:

Director: Heritage for CTS heritage and member of OpenHeritage NPC.

July 2016 to present

I am a member of the senior management of the company. I am responsible for project management and quality control on all of our heritage-related projects. I provide specialist heritage expertise when required and assist with the drafting of management plans, NIDs, heritage impact assessments and other specialist heritage reports. I liaise with clients, authorities and other specialists to ensure the highest quality product from CTS Heritage. I manage the budgets and financial compliance for all our projects and for the business in general.

We have recently been involved in developing the online map for the National Resistance and Liberation Heritage Route with DAC, contributing to the Stellenbosch Municipal Heritage Survey

among other large-scale projects. In addition, in 2018 we completed over 100 HIA's and Heritage Screening Assessments across South Africa.

Through OpenHeritage, I have been intimately involved with the development, and successful implementation of a digital heritage objects management system for the National Museum in Kenya as well as Tristan da Cuhna. We are in the process of rolling out the same system to the new Lesotho National Museum.

• Assistant Director for Policy, Research and Planning at Heritage Western Cape (HWC).

August 2014 to June 2016

As a member of the management structure of HWC, I was responsible for the drafting of new heritage related policy, the grading and declaration of Provincial Heritage Sites, the development of Conservation Management Plans, facilitating the development of inventories of heritage resources through local authorities as well as managing the development of the Western Cape's Heritage Information Management System (HIMS). I was also responsible for managing the project to nominate the Modern Human Origins proposed World Heritage Site.

I performed the role of Acting Deputy Director for HWC from April to December 2015, including financial management responsibilities, problem solving and the training of new staff.

• Heritage Officer for Palaeontology and for the Mpumalanga Province at the South African Heritage Resources Agency (SAHRA).

January 2013 to June 2014

Responsibilities include managing palaeontological permit applications in terms of Section 35 of the NHRA and development applications in terms of Section 38 of the NHRA. Projects included the development of a National Palaeotechnic Report identifying significant palaeontological deposits throughout SA, as well as developing professional relationships between SAHRA and the Palaeontological Society of South Africa (PSSA) and the Geological Society of South Africa (GSSA). During this time, I was part of the team that developed the digitised National Palaeontological Sensitvity Map, the first of its kind in the world.

• Heritage Officer for Archaeology, Palaeontology and Meteorites at Heritage Western Cape (HWC).

September 2010 to December 2012

HWC is a Public Entity that forms part of the Heritage Resource Management Component of the Provincial Governments' Department of Cultural Affairs and Sport (DCAS). Projects included the declaration of Pinnacle Point and the West Coast Fossil Park as Provincial Heritage Sites (PHSs), the management of the development of the Baboon Point PHS Conservation Management Plan as well as an educational outreach program as part of the DCAS MOD Centre Project.

• Heritage Officer for the Archaeology, Palaeontology and Meteorites Unit of the South African Heritage Resources Agency (SAHRA) as part of a three month contract.

January 2010 to March 2010

• Environmental Control Officer, Amathemba Environmental Management Consulting

Part time: 2007 to 2009

Field Work Experience:

2016-present	Various archaeological field assessments for specialist archaeological assessments and heritage impact assessments
2010-2016	Various archaeological field assessments on behalf of HWC and SAHRA
2008-2009	Field Assistant, Dr. D. Braun, Elandsfontein Excavation Locality, University of Cape Town (UCT)
	Field Assistant, Dr. D. Braun, Koobi Fora Research Project (Kenya), Rutgers University, New Jersey
2006	Field Assistant, Damiana Ravasi (PhD), Zoology Department, University of Cape Town.
2005	Research Assistant, Dr. Becky Ackerman, Archaeology Department, University of Cape Town
2004	Field Assistant, Prestwich Place Excavation Locality, Archaeology Contracts Office, UCT

Teaching Positions:

2019	Guest Lecturer, Introduction to South African Heritage Legislation, UCT MPhil:			
	Conservation of the Built Environment			
2017	Guest Lecturer, South African Heritage Legislation, George Washington University			
	Heritage Management Field School			
2016	Guest Lecturer, South African Heritage Legislation, Archaeology Honours Course,			
	University of Cape Town			
2015	Guest Lecturer, South African Heritage Legislation, Archaeology Honours Course,			
	University of Cape Town			
2014	Guest Lecturer, South African Heritage Legislation, Archaeology Honours Course,			
0047	University of Cape Town			
2013	Guest Lecturer, South African Heritage Legislation, Archaeology Honours Course,			
2010	University of Cape Town			
2010	Teaching Assistant, Langebaanweg Field School, Arizona State University			
2009				
	Demonstrator, Introduction to Geography, Earth and Environmental Science, University of Cape Town (GEO1009F)			
	Teaching Assistant, Koobi Fora Field School (Kenya), Rutgers University, New Jersey			
	Lecturer, Introduction to Geography, Earth and Environmental Science: Supplementary			
	Course, University of Cape Town (EGS1004S)			
	Demonstrator, Elandsfontein Honours Field School, University of Cape Town (AGE4000W)			
2008	Demonstrator, Introduction to Geography, Earth and Environmental Science, University of			
	Cape Town (ERT1000F)			
	Demonstrator, Elandsfontein Honours Field School, University of Cape Town (AGE4000W)			
	Teaching Assistant, Koobi Fora Field School (Kenya), Rutgers University, New Jersey			

Conferences and Papers

Implementation"

ASAPA, Pretoria, RSA: "Using Heritage Data to Guide Responsible Development: Tools to ensure high quality recording of heritage sites"

ICAHM, Bagomoyo, Tanzania: "OpenHeritage: Development and implementation of national heritage management systems - Lessons from South Africa, Namibia and Kenya"

2016

ICAHM, Salalah, Oman: "Straight to the (Baboon) Point: A look at the Conservation of Archaeological Landscapes in South Africa using Baboon Point as a Case Study"

Leakey Foundation, Sonoma County, San Fransisco, USA: ""Straight to the (Baboon) Point: A look at the Conservation of Archaeological Landscapes in South Africa using Baboon Point as a Case Study"

2012

PSSA, Johannesburg, RSA: "SAHRIS Palaeosensitivity Map - Methodology and

Other

In 2013 I was asked to join the panel of judges for the Ministerial awards for Heritage in the Western Cape. From 2013 to July 2014, I was a member of the Heritage Western Cape Archaeology, Palaeontology and Meteorites Committee and I currently sit on the Heritage Western Cape Inventories, Gradings and Interpretations Committee.

In November 2013, I was awarded a bursary from the Department of Arts and Culture to complete a Masters in Philosophy in Conservation of the Built Environment through the UCT Faculty of Engineering and the Built Environment in 2014 and 2015. I was in the process of finalising this degree in 2017, however the arrival of my son has temporarily halted my progress.

I am a paid up member of the Association for Southern African Professional Archaeologists (ASAPA), the Association of Professional Heritage Practitioners (APHP) and I have been a member of the Executive Council of APHP since 2014.

In June 2017, I was selected as Chair of APHP. I am a member of the Palaeontological Society of South Africa (PSSA) and ICOMOS South Africa, for which I am Vice-President of the Board. I am also a member of the International Committee for Archaeological Heritage Management (ICAHM), a committee of UNESCO.

I am an active participant in a not-for-profit company called OpenHeritage which is dedicated to opening access to heritage resources through digital innovation. To this end, we have been involved in a number of projects including Wikipeadia Training with Africa Centre, the development and implementation of a Collections Management System for the National Museums of Kenya and the development of a digital Inventory of the Vernacular Architecture of the Eastern Cape.

Referees

Mary LeslieLaura RobinsonWendy Blackmleslie.za@gmail.comctht@hertage.org.zawblack@iziko.org.za082 733 2611083 463 4765021 481 3883

Janette Deacon Andrew Hall

janette@conjunction.co.za waitabout191@gmail.com

082 491 5067 (Currently based in Oman)



ENVIRONMENTAL PLANNING AND DESIGN

Name JONATHAN MARSHALL

NationalityBritishYear of Birth1956

Specialisation Landscape Architecture / Landscape & Visual Impact Assessment /

Environmental Planning / Environmental Impact Assessment.

Qualifications

Education Diploma in Landscape Architecture.

Gloucestershire College of Art and Design,

UK (1979)

Environmental Law, University of KZN

(1997)

Professional Registered Professional Landscape Architect (South Africa)

Chartered Member of the Landscape Institute (UK)

Certified Environmental Assessment Practitioner of South Africa.

Member of the International Association of Impact

Assessment, South Africa

<u>Languages</u> <u>English</u> - Speaking - Excellent

Reading - ExcellentWriting - Excellent

Contact Details Post: PO Box 2122

Westville

3630

Republic of South Africa

Phone: +27 31 2668241, Cell: +27 83 7032995

Key Experience

Jon qualified as a Landscape Architect at Cheltenham (UK) in 1979. He has been a Chartered Member of the Landscape Institute (UK) since 1986. He is also a registered Landscape Architect and Environmental Assessment Practitioner of South Africa.

During the early part of his career (1981 – 1990) he worked with Clouston (now RPS) in Hong Kong and Australia. During this period he was called on to undertake visual impact assessment input to numerous environmental assessment processes for major infrastructure projects. This work was generally based on photography with line drawing superimposed to illustrate the extent of development visible.

He worked in the United Kingdom (1990 – 1995) for major supermarket chains including Sainsbury's and prepared CAD based visual impact assessments for public enquiry for new store development. He also prepared the VIA input to the environmental statement for the Cardiff Bay Barrage for consideration by the UK Parliament in the passing of the Barrage Bill.

His more recent VIA work in Africa (1995 to present) includes a combination of CAD and GIS based work for a new international airport to the north of Durban, new heavy industrial operations, overhead electrical transmission lines, mining operations, a number of commercial and residential developments as well as numerous renewable energy projects.

VIA work undertaken during the last twelve months includes assessments for several proposed Eskom power lines / substations and numerous solar and wind energy projects.

Relevant Landscape & Visual Impact Assessment (LVIA) Projects

- 1. **Paulputs CSP Power Tower project** LVIA for a 200MW CSP power tower facility near Pofadder in the Northern Cape.
- Karoshoek Solar Valley LVIA for nine CSP projects including power tower and parabolic trough projects in the Karoshoek Solar Valley near Upington in the Northern Cape.
- 3. **Noupoort CSP** LVIA for two CSP parabolic trough facilities close to Noupoort in the Northern Cape.
- 4. **Sol Invictus Solar** LVIA for four 150MW photovoltaic solar arrays near Aggeneys in the Northern Cape for a private client
- 5. **Tshivhaso Power Station** LVIA for a proposed new 600MW power station including associated infrastructure and dumps near Lephalale in the Limpopo Province for a private client.
- 6. **Woodhouse Solar** LVIA for two 100MW photovoltaic solar arrays near Vryburg in the North West Province for a private client.
- Saldanha Eskom Network Strengthening Project LVIA for major improvements to Eskom's electrical infrastructure between Langebaan and Saldanha in the Western Cape for Eskom.
- 8. **Albany Solar Array** LVIA for two 75MW photovoltaic solar arrays near Upington in the Northern Cape.
- 9. **Mpophomeni Shopping Centre** LVIA for a proposed new shopping center to the south of Midmar Dam in KwaZulu Natal for a private client.
- 10. **Gunstfontein Wind Farm** LVIA for a 200MWnd farm near Sutherland in the Northern Cape for a orivate client.
- 11. **Hennenman Solar Array** LVIA for a proposed solar array in the Free State for a private client.
- 12. **Moorreesburg Wind Farm** LVIA for a proposed wind energy project in the Western Cape for a private client.
- 13. **Lethabo Solar Array** LVIA for a proposed solar array at the Lethabo Power Station in the Free State for Eskom.
- 14. **Tutuka Solar Array** LVIA for a proposed solar array at the Tutuka Power Station in Mpumalanga for Eskom.
- 15. **Majuba Solar Array** LVIA for a proposed solar array at the Majuba Power Station in Mpumalanga for Eskom.
- Isundu 765 / 400Kv Sub Station LVIA for a proposed major substation in KwaZulu Natal for Eskom.
- 17. **Bhangazi Lake Tourism Development** Visual impact assessment for a proposed lodge development within the Isimangaliso Wetland Park World Heritage Site. This work is ongoing.
- Quarry Development for the Upgrade of Sani Pass Visual Impact Assessments for two proposed quarry developments on the edge of the uKhalamba-Drakensburg World Heritage Site.
- Mtubatuba to St Lucia Overhead Power Line Visual Impact Assessment for a proposed power line bordering on the Isimangaliiso Wetland Park World Heritage Site for

- Eskom.
- 20. St Faiths 400/132 kV Sub-Station and Associated Power Lines Visual Impact Assessment for a proposed new major sub-station and approximately 15km of overhead power line for Eskom.
- 21. Clocolan to Ficksburg Overhead Power Line Visual Impact Assessment for a proposed power line for Eskom.
- Solar Plant Projects including Photovoltaic and Concentrating Solar Power Plants
 Numerous projects for Eskom and private clients in the Northern Cape, Limpopo,
 Mpumalanga and the Free State.
- 23. **Moorreesburg Wind Farm.** Visual impact assessment for a proposed new wind farm in the Western Cape.
- 24. **AngloGold Ashanti, Dokyiwa (Ghana)** Visual Impact Assessment for proposed new Tailings Storage Facility at a mine site working with SGS as part of their EIA team.
- 25. **Camperdown Industrial Development** Visual Impact Assessment for proposed new light industrial area to the north o Camperdown for a private client.
- 26. Wild Coast N2 Toll Highway Peer review of VIA undertaken by another consultant.
- 27. **Gamma to Grass Ridge 765kv transmission line** Peer review of LVIA undertaken by another consultant.
- 28. **Gateway Shopping Centre Extension (Durban)** Visual Impact Assessment for a proposed shopping centre extension in Umhlanga, Durban.
- 29. **Kouroussa Gold Mine (Guinea)** Visual impact assessment for a proposed new mine in Guinea working with SGS as part of their EIA team.
- 30. **Mampon Gold Mine (Ghana)** Visual impact assessment for a proposed new mine in Ghana working with SGS as part of their EIA team.
- 31. **Telkom Towers** Visual impact assessments for numerous Telkom masts in KwaZulu Natal
- 32. **Dube Trade Port, Durban International Airport** Visual Impact Assessment for a new international airport.
- 33. **Sibaya Precinct Plan** Visual Impact Assessment as part of Environmental Impact Assessment for a major new development area to the north of Durban.
- 34. **Umdloti Housing** Visual Impact Assessment as part of Environmental Impact Assessment for a residential development beside the Umdloti Lagoon to the north of Durban.
- 35. **Tata Steel Ferrochrome Smelter** Visual impact assessment of proposed new Ferrochrome Smelter in Richards Bay as part of EIA undertaken by the CSIR.
- 36. **Diamond Mine at Rooipoort Nature Reserve near Kimberley** Visual impact assessment for a proposed diamond mine within an existing nature reserve for De Beers.
- 37. **Durban Solid Waste Large Landfill Sites –** Visual Impact Assessment of proposed development sites to the North and South of the Durban Metropolitan Area. The project utilised 3d computer visualisation techniques.
- 38. **Hillside Aluminium Smelter, Richards Bay -** Visual Impact Assessment of proposed extension of the existing smelter. The project utilised 3d computer visualisation techniques.
- 39. Estuaries of KwaZulu Natal Phase 1 and Phase 2 Visual character assessment and GIS mapping as part of a review of the condition and development capacity of eight

- estuary landscapes for the Town and Regional Planning Commission. The project was extended to include all estuaries in KwaZulu Natal.
- 40. **Signage Assessments** Numerous impact assessments for proposed signage developments for Blast Media.
- 41. **Signage Strategy** Preparation of an environmental strategy report for a national advertising campaign on National Roads for Visual Image Placements.
- 42. **Zeekoegatt, Durban** Computer aided visual impact assessment. Acted as advisor to the Province of KwaZulu Natal in an appeal brought about by a developer to extend a light industrial development within a 60 metre building line from the National N3 Highway.
- 43. **La Lucia Mall Extension** Visual impact assessment using three dimensional computer modelling / photo realistic rendering and montage techniques for proposed extension to shopping mall for public consultation exercise.
- 44. **Redhill Industrial Development** Visual impact assessment using three dimensional computer modelling / photo realistic rendering and montage techniques for proposed new industrial area for public consultation exercise.
- 45. **Avondale Reservoir** Visual impact assessment using three dimensional computer modelling / photo realistic rendering and montage techniques for proposed hilltop reservoir as part of Environmental Impact Assessment for Umgeni Water.
- 46. **Hammersdale Reservoir** Visual impact assessment using three dimensional computer modelling / photo realistic rendering and montage techniques for proposed hilltop reservoir as part of Environmental Impact Assessment for Umgeni Water.
- 47. **Southgate Industrial Park, Durban** Computer Aided Visual Impact Assessment and Landscape Design for AECI.
- 48. Sainsbury's Bryn Rhos (UK) Computer Aided Visual Impact Assessment/ Planning Application for the development of a new store within the Green Wedge North of Swansea.
- 49. **Ynyston Farm Access (UK)** Computer Aided Impact Assessment of visual intrusion of access road to proposed development in Cardiff for the Land Authority for Wales.
- 50. Cardiff Bay Barrage (UK) Concept Design, Detail Design, Documentation, and Visual Input to Environmental Statement for consideration by Parliament in the debate prior to the passing of the Cardiff Bay Barrage Bill. The work was undertaken for Cardiff Bay Development Corporation.
- 51. **A470**, **Cefn Coed to Pentrebach (UK)** Preparation of frameworks for the assessment of the impact of the proposed alignment on the landscape for The Welsh Office.
- 52. **Sparkford to Illchester Bye Pass (UK)** The preparation of the landscape framework and the draft landscape plan for the Department of Transport.
- 53. **Green Island Reclamation Study (Hong Kong)** Visual Impact Assessment of building massing, Urban Design Guidelines and Masterplanning for a New Town extension to Hong Kong Island.
- 54. **Route 3 (Hong Kong)** Visual Impact Assessment for alternative road alignments between Hong Kong Island and the Chinese Border.
- 55. **China Border Link (Hong Kong)** Visual Impact Assessment and initial Landscape Design for a new border crossing at Lok Ma Chau.
- 56. **Route 81, Aberdeen Tunnel to Stanley (Hong Kong)** Visual Impact Assessment for alternative highway alignments on the South side of Hong Kong Island.