

CURRICULUM VITAE OF JO-ANNE THOMAS

(Comprehensive)

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:	Nineteen (19) 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)

Professional Society Affiliations:

- Registered with the South African Council for Natural Scientific Professions as a Professional Natural Scientist: Environmental Scientist (400024/00)

EMPLOYMENT

Date	Company	Roles and Responsibilities
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

Environmental Impact Assessments and Environmental Management Programmes

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
Karoshhoek CPV facility on site 2 as part of the larger Karoshhoek Solar Valley Development East of Upington, Northern Cape	FG Emvelo	Project Manager & EAP
Kgabalatsane SEF North-East for Brits, North West	Built Environment African Energy Services	Project Manager & EAP
Kleinbegin PV SEF West of Groblershoop, Northern Cape	MedEnergy Global	Project Manager & EAP
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, Free State	SolaireDirect Southern Africa	Project Manager & EAP
Sannaspos Solar Park, Free State Province	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 West	FRV Energy South Africa	Project Manager & EAP
Alldays PV & CPV SEF Phase 1, Limpopo	BioTherm 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-West Province	Solar Reserve South Africa	Project Manager & EAP

Project Name & Location	Client Name	Role
Heuningspruit PV1 & PV 2 facilities near Koppies, Free State	Sun Mechanics	Project Manager & EAP
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, National	Airports Company South Africa (ACSA)	Project Manager & EAP
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 State	SolaireDirect Southern Africa	Project Manager & EAP
Solar Park Expansion within the Rooiwal Power Station, Gauteng	AFRKO Energy	Project Manager & EAP
Steynsrus SEF, Free State	SunCorp	Project Manager & EAP
Thaba Eco Lodge PV Facility, Gauteng	Camco Clean Energy	Project Manager & EAP

Screening Studies

Project Name & Location	Client Name	Role
Allemans Fontein SEF near Noupoot, 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 Noupoot, Northern Cape	Fusion Energy	Project Manager & EAP
Damfontein SEF near Noupoot, Northern Cape	Fusion Energy	Project Manager & EAP
Everest SEF near Welkom, Free State	FRV & iNca Energy	Project Manager & EAP
Gillmer SEF near Noupoot, 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, Gauteng	Momentous Energy	Project Manager & EAP
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, Northern Cape	Solar Reserve South Africa	Project Manager & EAP
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
Upington Airport 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

Project Name & Location	Client Name	Role
Witkop SEF near Polokwane, Limpopo	FRV & iNca Energy	Project Manager & EAP
Woodmead Retail Park Rooftop PV Installation, Gauteng	Momentous Energy	Project Manager & EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO and bi-monthly auditing for the construction of the Adams Solar PV Project Two South of Hotazel, Northern Cape	Enel Green Power	Project Manager
ECO for the construction of the Kathu PV Facility, Northern Cape	REISA	Project Manager
ECO and bi-monthly auditing for the construction of the Pulida PV Facility, Free State	Enel Green Power	Project Manager
ECO for the construction of the RustMo1 SEF, North West	Momentous Energy	Project Manager
ECO for the construction of the Sishen SEF, Northern Cape	Windfall 59 Properties	Project Manager
ECO for the construction of the Upington Airport PV Facility, Northern Cape	Sublunary Trading	Project Manager
Quarterly compliance monitoring of compliance with all environmental licenses for the operation activities at the Kathu PV facility, Northern Cape	REISA	Project Manager

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 Cape	MedEnergy	Environmental Advisor
Konkoonises II SEF near Pofadder, Northern Cape	BioTherm Energy	Environmental Advisor
Konkoonises Solar Farm, Northern Cape	BioTherm Energy	Environmental Advisor
Lephalale SEF, Limpopo	Exxaro	Environmental Advisor
Pixley ka Seme PV Park, South-East of De Aar, Northern Cape	African Clean Energy Developments (ACED)	Environmental Advisor
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 S28 Energy	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

Project Name & Location	Client Name	Role
Sirius Phase One PV Facility near Upington, Northern Cape	Aurora Power Solutions	Environmental Advisor

Environmental Permitting & Water Use License (WUL) Applications

Project Name & Location	Client Name	Role
Biodiversity Permit & WULA for the Aggeneys SEF near Aggeneys, Northern Cape	BioTherm Energy	Project Manager & EAP
Biodiversity Permit for the Konkoonises II SEF near Pofadder, Northern Cape	BioTherm Energy	Project Manager & EAP
Biodiversity Permitting for the Lephalale SEF, Limpopo	Exxaro Resources	Project Manager & EAP
Environmental Permitting for the Kleinbegin PV SEF West of Groblershoop, Northern Cape	MedEnergy	Project Manager & EAP
Environmental Permitting for the Upington SEF, Northern Cape	Abengoa Solar	Project Manager & EAP
Environmental Permitting for the Aggeneys Solar Farm, Northern Cape	BioTherm Energy	Project Manager & EAP
Environmental Permitting for the Kathu PV Facility, Northern Cape	Building Energy	Project Manager & EAP
Environmental Permitting for the Konkoonises Solar Farm, Northern Cape	BioTherm Energy	Project Manager & EAP
Environmental Permitting for the Lephalale SEF, Limpopo	Exxaro Resources	Project Manager & EAP
Environmental Permitting for the Scuitdrift 1 SEF & Scuitdrift 2 SEF, Limpopo	Building Energy	Project Manager & EAP
Environmental Permitting for the Sirius PV Plant, Northern Cape	Aurora Power Solutions	Project Manager & EAP
Permits for the Kleinbegin and UAP PV Plants, Northern Cape	MedEnergy Global	Project Manager & EAP
S53 Application for Arriesfontein Solar Park Phase 1 – 3 near Danielskuil, Northern Cape	Solar Reserve / SunCorp	Project Manager & EAP
S53 Application for Hertzogville PV1 & PV 2 SEFs, Free State	Solar Reserve / SunCorp	Project Manager & EAP
S53 Application for the Bloemfontein Airport PV Facility, Free State	Sublunary Trading	Project Manager & EAP
S53 Application for the Kimberley Airport PV Facility, Northern Cape	Sublunary Trading	Project Manager & EAP
S53 Application for the Project Blue SEF, Northern Cape	WWK Developments	Project Manager & EAP
S53 Application for the Upington Airport PV Facility, Free State	Sublunary Trading	Project Manager & EAP
WULA for the Kalahari SEF Phase II in Kathu, Northern Cape	Engie	Project Manager & EAP

RENEWABLE POWER GENERATION PROJECTS: CONCENTRATED SOLAR FACILITIES (CSP)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Ilanga CSP 2, 3, 4, 5, 7 & 9 Facilities near Upington, Northern Cape	Emvelo Holdings	Project Manager & EAP

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

Environmental Compliance, Auditing and ECO

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

Screening Studies

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

Compliance Advice and ESAP reporting

Project Name & Location	Client Name	Role
Ilanga CSP Facility near Upington, Northern Cape	Ilangethu Energy	Environmental Advisor
Ilanga 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 & WUL Applications

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

RENEWABLE POWER GENERATION PROJECTS: WIND ENERGY FACILITIES

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
SERE WEF, Western Cape	Eskom Holdings SoC Limited	EAP
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 Cape	iNca Energy	Project Manager & EAP
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 area, Western Cape	BioTherm Energy	Project Manager & EAP
Moorreesburg WEF, Western Cape	iNca Energy	Project Manager & EAP
Oyster Bay WEF, Eastern Cape	Renewable Energy Resources Southern Africa	Project Manager & EAP
Project Blue WEF, Northern Cape	Diamond Wind	Project Manager & EAP
Rheboksfontein WEF, Western Cape	Moyeng Energy	Project Manager & EAP
Spitskop East WEF near Riebeeck East, Eastern Cape	Renewable Energy Resources Southern Africa	Project Manager & EAP
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 Cape	Windlab Developments	Project Manager & EAP
Beaufort West Wind Monitoring Masts, Western Cape	Umoya Energy	Project Manager & EAP
Hopefield Community Wind Farm near Hopefield, Western Cape	Umoya Energy	Project Manager & EAP
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 Cape	Umoya Energy	Project Manager & EAP
Overberg Area Wind Monitoring Masts, Western Cape	BioTherm Energy	Project Manager & EAP
Oyster Bay Wind Monitoring Masts, Eastern Cape	Renewable Energy Systems Southern Africa (RES)	Project Manager & EAP

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

Project Name & Location	Client Name	Role
Various WEFs within an identified area in the Overberg area, Western Cape	BioTherm Energy	Project Manager & EAP
Various WEFs within an identified area on the West Coast, Western Cape	Investec Bank Limited	Project Manager & EAP
Various WEFs within an identified area on the West Coast, Western Cape	Eskom Holdings Limited	Project Manager & EAP
Various WEFs within the Western Cape	Western Cape Department of Environmental Affairs and Development Planning	Project Manager & EAP
Velddrift WEF, Western Cape	VentuSA Energy	Project Manager & EAP
Wind 1000 Project	Thabo Consulting on behalf of Eskom Holdings	Project Manager & EAP
Wittekleibosch, Snylip & Doriskraal WEFs, Eastern Cape	Exxarro Resources	Project Manager & EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the West Coast One WEF, Western Cape	Aurora Wind Power	Project Manager
ECO for the construction of the Gouda WEF, Western Cape	Blue Falcon	Project Manager
EO for the Dassiesklip Wind Energy Facility, Western Cape	Group 5	Project Manager
Quarterly compliance monitoring of compliance with all environmental licenses for the operation activities at the Gouda Wind Energy facility near Gouda, Western Cape Province	Blue Falcon	Project Manager
Annual auditing of compliance with all environmental licenses for the operation activities at the West Coast One Wind Energy facility near Vredenburg, Western Cape Province	Aurora Wind Power	Project Manager

Compliance Advice

Project Name & Location	Client Name	Role
Amakhala Phase 1 WEF, Eastern Cape	Cennergi	Environmental Advisor
Dassiesfontein WEF within the Overberg area, Western Cape	BioTherm Energy	Environmental Advisor
Excelsior Wind Farm, Western Cape	BioTherm Energy	Environmental Advisor
Great Karoo Wind Farm, Northern Cape	African Clean Energy Developments (ACED)	Environmental Advisor
Hopefield Community WEF, Western Cape	African Clean Energy Developments (ACED)	Environmental Advisor
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, Western Cape	IL&FS Energy Development Company	Environmental Advisor

Environmental Permitting & WUL Applications

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

CONVENTIONAL POWER GENERATION PROJECTS (COAL)

Environmental Impact Assessments and Environmental Management Programmes

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

Basic Assessments

Project Name & Location	Client Name	Role
Coal Stockyard on Medupi Ash Dump Site, Limpopo Province	Eskom Holdings	Project Manager & EAP
Biomass Co-Firing Demonstration Facility at Arnot Power Station East of Middleburg, Mpumlanaga	Eskom Holdings	Project Manager & EAP

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

Compliance Advice

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

Environmental Permitting & WUL Applications

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

CONVENTIONAL POWER GENERATION PROJECTS (GAS)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Ankerlig OCGT to CCGT Conversion project & 400 kV transmission power line between Ankerlig and the Omega Substation, Western Cape	Eskom Holdings SoC Limited	Project Manager & EAP
Gourikwa OCGT to CCGT Conversion project & 400 kV transmission power line between Gourikwa & Proteus Substation, Western Cape	Eskom Holdings SoC Limited	Project Manager & EAP
Richards Bay Gas to Power Combined Cycle Power Station, KwaZulu-Natal	Eskom Holdings SoC Limited	Project Manager & EAP
Richards Bay Gas to Power Plant, KwaZulu-Natal	Richards Bay Gas	Project Manager & EAP
Decommissioning & Recommissioning of 3 Gas 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	Eskom Holdings	Project Manager & EAP

Screening Studies

Project Name & Location	Client Name	Role
Fatal Flaw Analysis for 3 area identified for the establishment of a 500MW CCGT Power Station	Globeleq Advisors Limited	Project Manager & EAP

Richards Bay Gas to Power Combined Cycle Power
Station, KwaZulu-Natal

Eskom Holdings SoC Limited

Project Manager & EAP



GRID INFRASTRUCTURE PROJECTS

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Aggeneis-Oranjemond Transmission Line & Substation Upgrade, Northern Cape	Eskom Transmission	Project Manager & EAP
Ankerlig-Omega Transmission Power Lines, Western Cape	Eskom Transmission	Project Manager & EAP
Karoshhoek Grid Integration project as part of the Karoshhoek Solar Valley Development East of Upington, Northern Cape	FG Emvelo	Project Manager & EAP
Koeberg-Omega Transmission Power Lines,, Western Cape	Eskom Transmission	Project Manager & EAP
Koeberg-Stikland Transmission Power Lines, Western Cape	Eskom Transmission	Project Manager & EAP
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 Power Station site, Western Cape	Eskom Transmission	Project Manager & EAP
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 Koeberg to the Ankerlig Power Station, Western Cape	Eskom Holdings	Project Manager & EAP
Golden Valley II WEF Power Line & Substation near Cookhouse, Eastern Cape	BioTherm Energy	Project Manager & EAP
Golden Valley WEF Power Line near Cookhouse, Eastern Cape	BioTherm Energy	Project Manager & EAP
Karoshhoek Grid Integration project as part of the Karoshhoek Solar Valley Development East of Upington, Northern Cape	FG Emvelo	Project Manager & EAP
Konkoonsies II PV SEF Power Line to the Paulputs Substation near Pofadder, Northern Cape	BioTherm Energy	Project Manager & EAP
Perdekraal West WEF Powerline to the Eskom Kappa Substation, Western Cape	BioTherm Energy	Project Manager & EAP
Rhebokfontein WEF Powerline to the Aurora Substation, Western Cape	Moyeng Energy	Project Manager & EAP
Soetwater Switching Station near Sutherland, Northern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
Solis Power I Power Line & Switchyard Station near Upington, Northern Cape	Brightsource	Project Manager & EAP
Stormwater Canal System for the Ilanga CSP near Upington, Northern Cape	Karoshhoek Solar One	Project Manager & EAP
Tsitsikamma Community WEF Powerline to the Diep River Substation, Eastern Cape	Eskom Holdings	Project Manager & EAP

Environmental Compliance, Auditing and ECO

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

Environmental Permitting & WUL Applications

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

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
Grootegeeluk Coal Mine for coal transportation infrastructure between the mine and Medupi Power Station (EMPr amendment) , Limpopo	Eskom Holdings	Project Manager & EAP
Waterberg Coal Mine (EMPr amendment), Limpopo	Seskoko Resources	Project Manager & EAP

Basic Assessments

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

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO for the construction of the Duhva Mine Water Recovery Project, Mpumalanga	Eskom Holdings SoC Limited	Project Manager

Project Name & Location	Client Name	Role
External compliance audit of Palesa Coal Mine's Integrated Water Use License (IWUL), near KwaMhlanga, Mpumalanga Province	HCI Coal	Project Manager
External compliance audit of Palesa Coal Mine's Waste Management License (WML) and EMP, near KwaMhlanga, Mpumalanga Province	HCI Coal	Project Manager
External compliance audit of Mbali Coal Mine's Integrated Water Use License (IWUL), near Ogies, Mpumalanga Province	HCI Coal	Project Manager

Environmental Permitting & WUL Applications

Project Name & Location	Client Name	Role
Waste Licence Application for the Rare Earth Separation Plant in Vredendal, Western Cape	Rareco	Project Manager & EAP
WULA for the Expansion of the Landfill site at Exxaro's Namakwa Sands Mineral Separation Plant, Western Cape	Exxaro Resources	Project Manager & EAP

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

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Bridge across the Ngotwane River, on the border of South Africa and Botswana	Eskom Holdings	Project Manager & EAP
Chemical Storage Tanks, Metallurgical Plant Upgrade & Backfill Plant upgrade at South Deep Gold Mine, near Westonaria, Gauteng	Goldfields	Project Manager & EAP
Expansion of the existing Welgedacht Water Care Works, Gauteng	ERWAT	Project Manager & EAP
Golden Valley WEF Access Road near Cookhouse, Eastern Cape	BioTherm Energy	Project Manager & EAP
Great Fish River Wind Farm Access Roads and Watercourse Crossings near Cookhouse, Eastern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
Ilanga CSP Facility Watercourse Crossings near Upington, Northern Cape	Karoshhoek Solar one	Project Manager & EAP
Modification of the existing Hartebeestfontein Water Care Works, Gauteng	ERWAT	Project Manager & EAP
N10 Road Realignment for the Ilanga CSP Facility, East of Upington, Northern Cape	SANRAL	Project Manager & EAP
Nxuba (Bedford) Wind Farm Watercourse Crossings near Cookhouse, Eastern Cape	African Clean Energy Developments (ACED)	Project Manager & EAP
Pollution Control Dams at the Medupi Power Station Ash Dump & Coal Stockyard, Limpopo	Eskom	Project Manager & EAP
Qoboshane borrow pits (EMPr only), Eastern Cape	Emalahleni Local Municipality	Project Manager & EAP
Tsitsikamma Community WEF Watercourse Crossings, Eastern Cape	Cennergi	Project Manager & EAP

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, near Keimoes, Northern Cape	Networx S28 Energy	Project Manager & EAP
Qoboshane bridge & access roads, Eastern Cape	Emalahleni Local Municipality	Project Manager & EAP
Relocation of the Assay Laboratory near Carletonville, Gauteng	Sibanye Gold	Project Manager & EAP
Richards Bay Harbour Staging Area, KwaZulu-Natal	Eskom Holdings	Project Manager & EAP
S-Kol Watercourse Crossing for the Solar PV Facility, East of Keimoes, Northern Cape	Networx S28 Energy	Project Manager & EAP
Sonnenberg Watercourse Crossing for the Solar PV Facility, West Keimoes, Northern Cape	Networx S28 Energy	Project Manager & EAP

Screening Studies

Project Name & Location	Client Name	Role
Roodepoort Open Space Optimisation Programme (OSOP) Precinct, Gauteng	TIMAC Engineering Projects	Project Manager & EAP

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
ECO and bi-monthly auditing for the construction of the Olifants River Water Resources Development Project (ORWRDP) Phase 2A: De Hoop Dam, R555 realignment and housing infrastructure	Department of Water and Sanitation	Project Manager Auditor
ECO for the Rehabilitation of the Blaaupan & Storm Water Channel, Gauteng	Airports Company of South Africa (ACSA)	Project Manager
ECO for the construction of the Water Pipeline from Kendal Power Station to Kendal Pump Station, Mpumalanga	Transnet	Project Manager

Environmental Permitting & WUL Applications

Project Name & Location	Client Name	Role
WULA for the Izubulo Private Nature Reserve, Limpopo	Kjell Bismeyer, Jann Bader, Laurence Saad	Project Manager & EAP
WULA for the Masodini Private Game Lodge, Limpopo	Masodini Private Game Lodge	Environmental Advisor
WULA for the Ezulwini Private Nature Reserve, Limpopo	Ezulwini Investments	Project Manager & EAP
WULA for the Masodini Private Game Lodge, Limpopo	Masodini Private Game Lodge	Project Manager & EAP
WULA for the N10 Realignment at the Ilanga SEF, Northern Cape	Karoshok Solar One	Project Manager & EAP

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, Limpopo	Nick Elliot	Environmental Advisor

ENVIRONMENTAL MANAGEMENT TOOLS

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

PROJECTS OUTSIDE OF SOUTH AFRICA

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

CURRICULUM VITAE OF THALITA BOTHA

Profession:	Environmental Assessment Practitioner (EAP)
Specialisation:	Environmental Assessments, Report writing, report reviewing, Geographical Information Systems (GIS), development of project proposals for procuring new projects, project administration
Work Experience:	2 and a half years' experience in Environmental Assessments and GIS

VOCATIONAL EXPERIENCE

Professional execution of consulting services for projects in the environmental management field, specialising in Environmental Impact Assessment studies, environmental permitting, public participation, compilation of Environmental Management Plans and Programmes, environmental policy, and integrated environmental management. Responsibilities include report writing, analysis and the manipulation of geographical and technical experience with the use of ArcGIS, project management, review of specialist studies and the identification and assessment of potential negative environmental impacts and benefits. Compilation of the reports for environmental studies is in accordance with all relevant environmental legislation.

Experience in conducting environmental impact assessments for Concentrated Solar Power (CSP) Projects, Wind Energy Projects and grid infrastructure projects as well as infrastructure projects. Recent projects have been undertaken for both the public- and private-sector, including electricity generation and transmission projects (wind and solar), linear developments (such local roads and power lines), as well as general environmental planning, development and management. The completion of a diverse set of environmental management studies has resulted in a good working knowledge of environmental legislation and policy requirements.

SKILLS BASE AND CORE COMPETENCIES

- Compilation of environmental impact assessment reports and environmental management programmes in accordance with relevant environmental legislative requirements;
- Analysis and manipulation of geographical information and data and technical experience with the use of ArcGIS;
- Identification and assessment of potential negative environmental impacts and benefits through the review of specialist studies;
- Public participation/involvement and stakeholder consultation;

- Identification of practical and achievable mitigation measures and the compilation of appropriate management plans; and
- Key experience in the assessment of impacts associated with renewable energy and large infrastructure projects.

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc. (Hons.) Environmental Management (2014), North-West University, Potchefstroom
- B.Sc. Environmental- and Biological Science (2013), North-West University, Potchefstroom

Courses:

- Integrated Water Resources Management, the National Water Act and Water Use Authorisations (2017), Carin Bosman Sustainable Solutions

EMPLOYMENT

Date	Company	Roles and Responsibilities
September 2015 - Current	Savannah Environmental (Pty) Ltd	<p>Environmental Assessment Practitioner</p> <p><i>Tasks include: Compilation of Environmental Impact Assessment (EIA) reports; Basic Assessment (BA) reports and Environmental Management Programmes; Environmental Screening reports; Co-ordination of the public participation process; Project management; project proposals and tenders; Client liaison and Marketing; Process EIA Applications.</i></p> <p>GIS (utilising ArcGIS),</p> <p><i>Tasks include: Analysis and manipulation of data, screening assessments; compilation of maps.</i></p>

PROJECT EXPERIENCE

Renewable Power Generation Projects: Solar Energy Facilities

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Thaba Eco Hotel SEF, Gauteng	Camco Clean Energy	EAP

Screening Studies

Project Name & Location	Client Name	Role
Pre-feasibility desktop screening and fatal flaw analysis for a solar PV project near Hotazel, Northern Cape Province	ABO Wind	EAP

Geographical Information Systems (GIS)

Project Name & Location	Client Name	Role
Sol Invictus PV 1, Aggeneys, Northern Cape	Cyraclox	GIS
Sol Invictus PV 2, Aggeneys, Northern Cape	Cyracraft	GIS
Sol Invictus PV 3, Aggeneys, Northern Cape	Cyrafusion	GIS
Sol Invictus PV 4, Aggeneys, Northern Cape	Cyralex	GIS
Pre-feasibility desktop screening and fatal flaw analysis for a solar PV project near Hotazel, Northern Cape Province	ABO Wind	GIS

Renewable power generation projects: Wind Energy Facilities

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Hartebeest WEF, Moorreesburg, Western Cape	Hartebeest Wind Farm	EAP

Environmental Permitting & WUL Applications

Project Name & Location	Client Name	Role
Karusa WEF WUL Application, Northern Cape	ACED	EAP
Soetwater WEF WUL Application, Northern Cape	ACED	EAP

Geographical Information Systems (GIS)

Project Name & Location	Client Name	Role
Hartebeest WEF, Moorreesburg, Western Cape	Hartebeest Wind Farm	GIS
Karusa WEF WUL Application, Northern Cape	ACED	GIS
Soetwater WEF WUL Application, Northern Cape	ACED	GIS

Renewable Power Generation Projects: Concentrated Solar Facilities (CSP)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Ilanga CSP 9, Northern Cape	Emvelo Holdings	EAP
Noupoort CSP, Northern Cape	CRESCO Energy	EAP

Geographical Information Systems (GIS)

Project Name & Location	Client Name	Role
Noupoort CSP, Northern Cape	CRESCO Energy	GIS

Renewable Power Generation Projects: Hydroelectrical Power Generation Facilities

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
<i>Kruisvallei Hydroelectric Power Generation Scheme</i>	<i>Zevobuzz</i>	<i>EAP</i>

Geographical Information Systems (GIS)

Project Name & Location	Client Name	Role
<i>Kruisvallei Hydroelectric Power Generation Scheme</i>	<i>Zevobuzz</i>	<i>GIS</i>

Environmental Permitting & WUL Applications

Project Name & Location	Client Name	Role
<i>WULA for the Kruisvallei Hydroelectric Power Generation Scheme</i>	<i>Zevobuzz</i>	<i>EAP</i>

Steam Generation Projects:

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
<i>Clayville Thermal Plant, Gauteng</i>	<i>Bellmall Energy</i>	<i>EAP</i>

Screening Studies

Project Name & Location	Client Name	Role
<i>Fatal flaw analysis for the Clayville Thermal Plant, Gauteng</i>	<i>Bellmall Energy</i>	<i>EAP</i>

Geographical Information Systems (GIS)

Project Name & Location	Client Name	Role
<i>Clayville Thermal Plant, Gauteng</i>	<i>Bellmall Energy</i>	<i>GIS</i>

Grid Infrastructure Projects

Basic Assessments

Project Name & Location	Client Name	Role
<i>Gunstfontein Switching Station and Power Line, Northern Cape</i>	<i>ACED</i>	<i>EAP</i>
<i>Zonnebloem Switching Station and Power Lines, Mpumalanga</i>	<i>Eskom SOC Ltd</i>	<i>EAP</i>

Geographical Information Systems (GIS)

Project Name & Location	Client Name	Role
<i>Zonnebloem Switching Station and Power Lines, Mpumalanga</i>	<i>Eskom SOC Ltd</i>	<i>GIS</i>

Mining Sector Projects

Environmental Permitting & WUL Applications

Project Name & Location	Client Name	Role
<i>S53 for Steynsrus PV 1, Western Cape</i>	<i>Cronimet Power Solutions</i>	<i>EAP</i>
<i>S53 for Steynsrus PV 2, Western Cape</i>	<i>Cronimet Power Solutions</i>	<i>EAP</i>
<i>S53 for Heuningspruit PV 1, Western Cape</i>	<i>Cronimet Power Solutions</i>	<i>EAP</i>

Geographical Information Systems (GIS)

Project Name & Location	Client Name	Role
<i>S53 for Steynsrus PV 1, Western Cape</i>	<i>Cronimet Power Solutions</i>	<i>GIS</i>
<i>S53 for Steynsrus PV 2, Western Cape</i>	<i>Cronimet Power Solutions</i>	<i>GIS</i>
<i>S53 for Heuningspruit PV 1, Western Cape</i>	<i>Cronimet Power Solutions</i>	<i>GIS</i>

Infrastructure Development Projects (bridges, pipelines, roads, etc)

Basic Assessments

Project Name & Location	Client Name	Role
<i>MN73 Road Realignment, Northern Cape</i>	<i>Northern Cape Department of Roads and Public Works</i>	<i>EAP</i>
<i>S24G for the unlawful commencement of activities within a watercourse, Honeydew, Gauteng</i>	<i>Soror Language Services cc</i>	<i>EAP</i>
<i>Access Roads and Watercourse Crossings for the Iziduli Emoyeni Wind Energy Facility</i>	<i>Emoynei Wind Farm Renewable Energy</i>	<i>EAP</i>

Geographical Information Systems (GIS)

Project Name & Location	Client Name	Role
<i>MN73 Road Realignment, Northern Cape</i>	<i>Northern Cape Department of Roads and Public Works</i>	<i>GIS</i>
<i>S24G for the unlawful commencement of activities within a watercourse, Honeydew, Gauteng</i>	<i>Soror Language Services cc</i>	<i>GIS</i>
<i>Access Roads and Watercourse Crossings for the Iziduli Emoyeni Wind Energy Facility</i>	<i>Emoynei Wind Farm Renewable Energy</i>	<i>GIS</i>

CURRICULUM VITAE OF GABRIELE STEIN

(Comprehensive)

Profession :	Public Participation and Social Consultant
Specialisation:	Public participation; stakeholder engagement and management; environmental impact assessment (social processes); social research (qualitative & quantitative); social assessments (stakeholder analysis and social impact assessment); facilitation (workshops, focus groups; public hearings, public open days, committees); environmental and social policy; monitoring and evaluation; community needs assessments
Work Experience:	10 years' experience as a Public Participation and Social Consultant

VOCATIONAL EXPERIENCE

Professional execution of public participation, stakeholder engagement, stakeholder management and social assessment consulting and advisory services for projects in the environmental assessment and management context. Consulting and advisory services are provided to both public and private sector clients, including national and provincial government departments, international development agencies and funding institutions involved in infrastructure development in South Africa. Key focus is on the design and implementation of public participation programmes required for Environmental Impact Assessments undertaken for large infrastructure projects, including electricity generation projects (wind, solar, gas and coal) and linear developments (roads and power lines). Experienced in implementing public participation programmes with a variety of stakeholder groups ranging from traditional communities, rural farming communities, business stakeholders, organs of state departments and non-governmental organisations within all nine s of South Africa.

SKILLS BASE AND CORE COMPETENCIES

- Public Participation, Stakeholder Engagement and Stakeholder Management
- Environmental Impact Assessment (Social Processes)
- Public Speaking and Presentation Skills
- Facilitation (workshops, focus group meetings, public meetings, public open days, working groups and committees)

- Social Research (Qualitative and Quantitative)
- Social Assessments (Stakeholder Analysis / Stakeholder Mapping)
- Survey Design and Sampling
- Monitoring and Evaluation
- Community Needs Assessments
- Environmental and Social Policy
- IFC Performance Standards
- Equator Principles
- Minute taking, issues mapping, report writing and quality control

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.A. Honours in Anthropology, University of Johannesburg (2005)
- B.A in Psychology, University of Johannesburg (2004)

Short Courses:

- Techniques for Effective Public Participation, International Association for Public Participation (IAP2) (2015)
- Foundations of Public Participation (Planning and Communication for Effective Public Participation, IAP2 (2015)
- Living Standards Measures, South African Advertising Research Foundation (SAARF) (2010)
- Focus Group Moderation Skills, Market Research for Africa (2007)
- Diploma in Public Relations, Allenby Campus Boksburg now Damlin College (2001)

Professional Society Affiliations:

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

EMPLOYMENT

Date	Company	Roles and Responsibilities
May 2012 - Current	Savannah Environmental (Pty) Ltd	Public Participation and Social Consultant <i>Tasks include: Public participation process design and implementation; undertaking stakeholder identification and analysis and developing & maintaining project specific databases; compiling and disseminating information relevant to the EIA process to I&APs and the broader public; facilitating and recording comments raised by I&APs, ensuring that comments are responded to by</i>

Date	Company	Roles and Responsibilities
		<i>the environmental consultants, specialists and clients and documented in the final BA, Scoping and EIA reports; scheduling, facilitating and recording public participation engagement opportunities; authority consultation; developing project proposals for procuring new projects in public participation and social consulting services.</i>
March 2007 – April 2012	NMA Effective Social Strategists (Pty) Ltd	Assistant Project Manager <i>Tasks include: design, execution and analysis of qualitative and quantitative social assessments including, stakeholder and social analysis, community needs assessment and stakeholder perception surveys; design and implementation of public participation strategies for integrated development planning and infrastructure projects during project implementation; development and facilitation of skills and SMME audit processes within local communities; coordinating the public participation processes for EIAs and HIAs; facilitating and taking minutes of participatory processes including focus group meetings, public open days, workshops, forums and committee meetings; supervising project coordinators and project administrators; liaising with clients regarding project deliverables and issues.</i>
January 2005 – March 2007 (Part-time):	University of Johannesburg: Department of Anthropology and Development Studies	Student Tutor and Research Assistant <i>Tasks include: marking tests, assignments and examinations written by undergraduate and postgraduate students; interview transcription, data analysis and report writing to assist PhD Fellows with research.</i>

PROJECT EXPERIENCE

Renewable Power Generation Projects: Solar Energy Facilities

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
<i>Prieska SEF, Northern Cape</i>	<i>Jouren Solar</i>	<i>Public Participation & Social Consultant</i>
<i>Blackwood SEF, Free State</i>	<i>Blackwood Solar Energy Facility</i>	<i>Public Participation & Social Consultant</i>

<i>Merapi Phase 1 – 4 SEFs, Free State</i>	<i>SolaireDirect Southern Africa</i>	<i>Public Participation & Social Consultant</i>
<i>Sannaspos SEF Phase 1, Free State</i>	<i>SolaireDirect Southern Africa</i>	<i>Public Participation & Social Consultant</i>
<i>Pofadder SEF, Northern Cape</i>	<i>South Africa Mainstream Renewable Power Development</i>	<i>Public Participation & Social Consultant</i>
<i>Tiger SEF, Northern Cape</i>	<i>Kabi Solar</i>	<i>Public Participation & Social Consultant</i>
<i>Kgabalatsane SEF, North West</i>	<i>BuiltAfrica Investments</i>	<i>Public Participation & Social Consultant</i>
<i>Klip Gat SEF, Northern Cape</i>	<i>Klip Gat Solar Energy</i>	<i>Public Participation & Social Consultant</i>
<i>Naauw Poort SEF, Northern Cape</i>	<i>Naauw Poort Solar Energy</i>	<i>Public Participation & Social Consultant</i>
<i>Stormberg SEF, Eastern Cape</i>	<i>Networx Eolos Renewables</i>	<i>Public Participation & Social Consultant</i>
<i>Gihon SEF, Limpopo</i>	<i>Networx Renewables</i>	<i>Public Participation & Social Consultant</i>
<i>Kison SEF, Limpopo</i>	<i>Networx Renewables</i>	<i>Public Participation & Social Consultant</i>
<i>Steynsrus PV1 & PV2 SEFs, Free State</i>	<i>SunCorp</i>	<i>Public Participation & Social Consultant</i>
<i>Zuurwater SEF Phase 1 – 4, Northern Cape</i>	<i>PVAfrica Development</i>	<i>Public Participation & Social Consultant</i>
<i>Sirius SEF Phase 1, Northern Cape</i>	<i>Sirius Solar PV Project One</i>	<i>Public Participation & Social Consultant</i>
<i>Sirius SEF Phase 2, Northern Cape</i>	<i>Sirius Solar PV Project Two</i>	<i>Public Participation & Social Consultant</i>
<i>Grootkop SEF, Free State</i>	<i>FRV Energy South Africa</i>	<i>Public Participation & Social Consultant</i>
<i>Everest SEF, Free State</i>	<i>FRV Energy South Africa</i>	<i>Public Participation & Social Consultant</i>
<i>Oryx SEF, Free State</i>	<i>FRV Energy South Africa</i>	<i>Public Participation & Social Consultant</i>
<i>Watershed SEF, North West</i>	<i>FRV Energy South Africa</i>	<i>Public Participation & Social Consultant</i>
<i>Wolmaransstad SEF, North West</i>	<i>Bluewave Capital SA</i>	<i>Public Participation & Social Consultant</i>
<i>Hennenman SEF, Free State</i>	<i>Bluewave Capital</i>	<i>Public Participation & Social Consultant</i>
<i>Lethabo SEF, Free State</i>	<i>Eskom</i>	<i>Public Participation & Social Consultant</i>
<i>Majuba SEF, Mpumalanga</i>	<i>Eskom</i>	<i>Public Participation & Social Consultant</i>
<i>Tutuka SEF, Mpumalanga</i>	<i>Eskom</i>	<i>Public Participation & Social Consultant</i>
<i>Bloemsmond 1 SEF, Northern Cape</i>	<i>AEP Bloemsmond Solar 1</i>	<i>Public Participation & Social Consultant</i>
<i>Bloemsmond 2 SEF, Northern Cape</i>	<i>AEP Bloemsmond Solar 2</i>	<i>Public Participation & Social Consultant</i>

Woodhouse Solar 1 SEF, North West	Genesis Woodhouse Solar 1	Public Participation & Social Consultant
Woodhouse Solar 2 SEF, North West	Genesis Woodhouse Solar 2	Public Participation & Social Consultant
Sol Invictus 1 SEF, Northern Cape	Cyraclox	Public Participation & Social Consultant
Sol Invictus 2 SEF, Northern Cape	Cyracraft	Public Participation & Social Consultant
Sol Invictus 3 SEF, Northern Cape	Cyrafusion	Public Participation & Social Consultant
Sol Invictus 4 SEF, Northern Cape	Cyralex	Public Participation & Social Consultant
SolarReserve Kotulo Tsatsi PV Power Plant 2, Northern Cape	SolarReserve South Africa and Kotulo Tsatsi Energy	Public Participation & Social Consultant
Orkney SEF, North West	Genesis Orkney Solar	Public Participation & Social Consultant

Basic Assessments

Project Name & Location	Client Name	Role
Sannaspos SEF Phase 2, Free State	SolaireDirect Southern Africa	Public Participation & Social Consultant
Southern Cross SEF near, Northern Cape	Tiquen Trading	Public Participation & Social Consultant
Tutwa SEF, Northern Cape	Tiquen Trading	Public Participation & Social Consultant
Carolus Poort SEF, Northern Cape Povice	Carolus Poort Solar Energy	Public Participation & Social Consultant
Wonderheuwel SEF, Northern Cape	Wonderheuwel Solar Energy	Public Participation & Social Consultant
Damfontein SEF, Northern Cape	Damfontein Solar Energy	Public Participation & Social Consultant
Gillmer SEF, Northern Cape	Gillmer Solar Energy	Public Participation & Social Consultant
Machadadorp SEF, Mpumalanga	Solar to Benefit Africa	Public Participation & Social Consultant
Son Citrus Rooftop SEF, Eastern Cape	Building Energy	Public Participation & Social Consultant
Gosforth Rooftop SEF, Gauteng	Building Energy	Public Participation & Social Consultant
Kynoch Rooftop SEF, Gauteng	Building Energy	Public Participation & Social Consultant
Newcastle SEF, KwaZulu-Natal	Building Energy	Public Participation & Social Consultant
Pongola SEF, KwaZulu-Natal	Building Energy	Public Participation & Social Consultant
Senekal 1 SEF, KwaZulu-Natal	Building Energy	Public Participation & Social Consultant
Senekal 2 SEF, KwaZulu-Natal	Building Energy	Public Participation & Social Consultant

Harmony Eland SEF, Free State	BBEntropie	Public Participation & Social Consultant
Harmony Nyala SEF, Free State	BBEntropie	Public Participation & Social Consultant
Harmony Tshepong SEF, Free State	BBEntropie	Public Participation & Social Consultant
Camco Clean Energy Solar System, Gauteng	Camco Clean Energy	Public Participation & Social Consultant
Scuitdrift SEF, Northern Cape	Scuitdrift Solar Project	Public Participation & Social Consultant

Screening Studies

Project Name & Location	Client Name	Role
Bobididi 5MW SEF, Limpopo	Root 60Four Energy	Public Participation & Social Consultant
Koppies-Josina SEF, Free State	Bluewave	Public Participation & Social Consultant
BWC Potgietersrust SEF, Free State	Bluewave	Public Participation & Social Consultant
BWC Uitsig SEF, Free State	Bluewave	Public Participation & Social Consultant
Boipelo SEF, North West	Building Energy	Public Participation & Social Consultant
Modderivier Rooftop SEF, Northern Cape	Building Energy	Public Participation & Social Consultant
Red Sand SEF, North West	Building Energy	Public Participation & Social Consultant

Renewable power generation projects: Wind Energy Facilities

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Garob WEF, Northern Cape	Garob Wind Farm	Public Participation & Social Consultant
Aberdeen WEF, Eastern Cape	Eskom	Public Participation & Social Consultant
Kleinzee WEF, Northern Cape	Eskom	Public Participation & Social Consultant
Elliot WEF, Eastern Cape	DNA Wind Farm	Public Participation & Social Consultant
Stormberg WEF, Eastern Cape	Networx Eolos Renewables	Public Participation & Social Consultant
Castle WEF, Northern Cape	Castle Wind Farm	Public Participation & Social Consultant
Zen WEF, Western Cape	Zen Wind Farm	Public Participation & Social Consultant
Mainstream Pofadder WEF, Northern Cape	South Africa Mainstream Renewable Power Development	Public Participation & Social Consultant

Mainstream Springfontein WEF, Free State	South Africa Mainstream Renewable Power Springfontein	Public Participation & Social Consultant
Karusa WEF, Northern Cape	Karusa Wind Farm	Public Participation & Social Consultant
Soetwater WEF, Northern Cape	Soetwater Wind Farm	Public Participation & Social Consultant
Great Karoo WEF, Northern Cape	Great Karoo Wind Farm	Public Participation & Social Consultant
Khai-Ma WEF, Northern Cape	South Africa Mainstream Renewable Power Developments	Public Participation & Social Consultant
Korana WEF, Northern Cape	South Africa Mainstream Renewable Power Developments	Public Participation & Social Consultant
Poortjies WEF, Northern Cape	South Africa Mainstream Renewable Power Developments	Public Participation & Social Consultant
Karreebosch WEF, Northern Cape and Western Cape s	Karreebosch Wind Farm	Public Participation & Social Consultant
Gunstfontein WEF, Northern Cape	Gunstfontein Wind Farm	Public Participation & Social Consultant
Hartebeest WEF, Western Cape	Hartebeest Wind Farm	Public Participation & Social Consultant

Screening Studies

Project Name & Location	Client Name	Role
Lamberts Bay WEF, Western Cape	Windy World	Public Participation & Social Consultant

Renewable Power Generation Projects: Concentrated Solar Facilities (CSP)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Upington Solar Thermal Plant 2, Northern Cape	Abengoa Solar Power South Africa	Public Participation & Social Consultant
Upington Solar Thermal Plant 3, Northern Cape	Abengoa Solar Power South Africa	Public Participation & Social Consultant
Paulputs CSP Facility, Northern Cape	Abengoa Solar Power South Africa	Public Participation & Social Consultant
SolarReserve Kotulo Tsatsi CSP 1, Northern Cape	SolarReserve South Africa and Kotulo Tsatsi Energy	Public Participation & Social Consultant
SolarReserve Kotulo Tsatsi CSP 2, Northern Cape	SolarReserve South Africa and Kotulo Tsatsi Energy	Public Participation & Social Consultant
SolarReserve Kotulo Tsatsi CSP 3, Northern Cape	SolarReserve South Africa and Kotulo Tsatsi Energy	Public Participation & Social Consultant
Noupoort CSP Facility, Northern Cape	CRESCO Energy	Public Participation & Social Consultant
Ilanga CSP Power Tower 1 SEF, Northern Cape	FG Emvelo	Public Participation & Social Consultant

<i>Ilanga CSP 3 SEF, Northern Cape</i>	<i>FG Emvelo</i>	<i>Public Participation & Social Consultant</i>
<i>Ilanga CSP 4 SEF, Northern Cape</i>	<i>FG Emvelo</i>	<i>Public Participation & Social Consultant</i>
<i>Ilanga CSP 5 SEF, Northern Cape</i>	<i>FG Emvelo</i>	<i>Public Participation & Social Consultant</i>
<i>Ilanga CSP 7, Northern Cape</i>	<i>FG Emvelo</i>	<i>Public Participation & Social Consultant</i>
<i>Ilanga CSP 9, Northern Cape</i>	<i>FG Emvelo</i>	<i>Public Participation & Social Consultant</i>

Grid Infrastructure Projects

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
<i>Saldanha Bay Network Strengthening Project, Western Cape</i>	<i>Eskom</i>	<i>Public Participation & Social Consultant</i>

Basic Assessments

Project Name & Location	Client Name	Role
<i>Sishen SEF 132kV Power Line, Northern Cape</i>	<i>Windfall 59 Properties</i>	<i>Public Participation & Social Consultant</i>
<i>Kopleegte – Poseidon 132kV Power Line, Eastern Cape</i>	<i>Eskom</i>	<i>Public Participation & Social Consultant</i>
<i>Kopleegte Substation, Eastern Cape</i>	<i>Cennergi</i>	<i>Public Participation & Social Consultant</i>
<i>132kV Golden Valley – Kopleegte Power Line, Eastern Cape</i>	<i>Eskom</i>	<i>Public Participation & Social Consultant</i>
<i>132kV Golden Valley – Poseidon Power Line, Eastern Cape</i>	<i>Eskom</i>	<i>Public Participation & Social Consultant</i>
<i>Golden Valley Substation, Eastern Cape</i>	<i>Terra Wind Energy Golden Valley</i>	<i>Public Participation & Social Consultant</i>
<i>Khobab Substation and 132kV Khobab – Helios Power Line, Northern Cape</i>	<i>South Africa Mainstream Renewable Power Khobab</i>	<i>Public Participation & Social Consultant</i>
<i>Garob Wind Farm to Kronos Substation 132kV Power Line, Northern Cape</i>	<i>Garob Wind Farm</i>	<i>Public Participation & Social Consultant</i>
<i>Wesley – Peddie 132kV Power Line, Eastern Cape</i>	<i>Just Energy</i>	<i>Public Participation & Social Consultant</i>
<i>Nojoli Wind Farm Substation and Power Line Integration, Eastern Cape</i>	<i>Nojoli Wind Farm</i>	<i>Public Participation & Social Consultant</i>
<i>Loeriesfontein 2 WEF Power Line Realignment, Northern Cape</i>	<i>South Africa Mainstream Renewable Power Loeriesfontein 2</i>	<i>Public Participation & Social Consultant</i>
<i>Springfontein Power Line, Free State</i>	<i>South Africa Mainstream Renewable Power Springfontein</i>	<i>Public Participation & Social Consultant</i>
<i>132kV Power Line from the Cuprum Substation to the Burchell Substation and Mooidraai Substation, Northern Cape</i>	<i>Eskom</i>	<i>Public Participation & Social Consultant</i>

66kV Orlight Power Line, Northern Cape	Orlight SA	Public Participation & Social Consultant
Iziduli Emoyeni WEF Power Line and Switching Station, Eastern Cape	Emoyeni Wind Farm Renewable Energy	Public Participation & Social Consultant
Iziduli Emoyeni WEF Substation, Eastern Cape	Emoyeni Wind Farm Renewable Energy	Public Participation & Social Consultant
Aggeney's Solar 1 Power Line, Northern Cape	PVAfrica Development	Public Participation & Social Consultant
Blackwood SEF Power Line, Free State	Blackwood Solar Energy Facility	Public Participation & Social Consultant
Terra Wind Energy Golden Valley WEF Power Line, Eastern Cape	Terra Wind Energy Golden Valley	Public Participation & Social Consultant
Rhebokfontein WEF 132kV Power Line, Western Cape	Moyeng Energy	Public Participation & Social Consultant
Khai-Ma WEF Power Line, Northern Cape	South Africa Mainstream Renewable Power Developments	Public Participation & Social Consultant
Poortjies WEF Power Line, Northern Cape	South Africa Mainstream Renewable Power Developments	Public Participation & Social Consultant
Korana WEF Power Line, Northern Cape	South Africa Mainstream Renewable Power Developments	Public Participation & Social Consultant
Korana SEF Power Line, Northern Cape	South Africa Mainstream Renewable Power Developments	Public Participation & Social Consultant
Castle WEF 132kV Power Line, Northern Cape	Castle Wind Farm	Public Participation & Social Consultant
Solis Power I Facility 132kV Power Line, Northern Cape	Solis Power I	Public Participation & Social Consultant
Karusa WEF 132kV Power Line and Switching Station, Northern Cape	ACED Renewable Hidden Valley	Public Participation & Social Consultant
Nxuba WEF 132kV Power Line, Substation and Metering Station, Eastern Cape	Nxuba Wind Farm	Public Participation & Social Consultant
Karusa WEF 132kV Power Line and Switching Station, Northern Cape	Soewater Wind Farm	Public Participation & Social Consultant
Konkoonsies II SEF Power Line and Substation, Northern Cape	Ramizone	Public Participation & Social Consultant
Perdekraal West WEF 132kV Power Line, Western Cape	Perdekraal West Wind Farm	Public Participation & Social Consultant
Golden Valley II WEF 132kV Power Line, Eastern Cape	Golden Valley II Wind	Public Participation & Social Consultant

Gas Projects

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Richards Bay Power Facility, KwaZulu-Natal	Richards Bay Gas Power 2	Public Participation & Social Consultant
Richards Bay Combined Cycle Power Plant, KwaZulu-Natal	Eskom	Public Participation & Social Consultant

Basic Assessments

Project Name & Location	Client Name	Role
Neopak CHP, Gauteng	Neopak	Public Participation & Social Consultant

Mining Sector Projects

Basic Assessments

Project Name & Location	Client Name	Role
Chemical Storage Tanks, Metallurgical Plant Upgrade & Backfill Plant Upgrade at South Deep Gold Mine, Gauteng	South Deep	Public Participation & Social Consultant
Waste License Application for Waste Transfer and Storage Facilities at South Deep Mine, Gauteng	South Deep	Public Participation & Social Consultant
Harmony Gold Doornkop Mine Wastewater Treatment Plant, Gauteng	Harmony Gold Mining Company	Public Participation & Social Consultant

Environmental Permitting & WUL Applications

Project Name & Location	Client Name	Role
Yzermyn Underground Coal Mine WULA, Mpumalanga	Atha Africa Ventures	Public Participation & Social Consultant

Infrastructure Development Projects (bridges, pipelines, roads, etc)

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Medupi Power Station Pollution Control Dams, Ash Dump & Coal Stockyard, Limpopo	Eskom	Public Participation & Social Consultant
Realignment of the N10, Northern Cape	South African National Roads Agency Limited (SANRAL)	Public Participation & Social Consultant

Basic Assessments

Project Name & Location	Client Name	Role
Watercourse Crossings within the authorised Ilanga CSP Facility, Northern Cape	Ilangaletu Solar Power	Public Participation & Social Consultant
Watercourse Crossings within the authorised Ofir-ZX SEF, Northern Cape	Networx S28 Energy	Public Participation & Social Consultant
Watercourse Crossings within the authorised S-KOL SEF, Northern Cape	Networx S28 Energy	Public Participation & Social Consultant
Watercourse Crossings within the authorised Sonnenberg SEF, Northern Cape	Networx S28 Energy	Public Participation & Social Consultant
Loeriesfontein 2 WEF Watercourse Crossings, Northern Cape	South Africa Mainstream Renewable Power Loeriesfontein 2	Public Participation & Social Consultant
Production and Storage of Chemical Fertilisers at a proposed facility near Bothaville, Free State	AMSOL Fertilizers	Public Participation & Social Consultant
Production and Storage of Chemical fertilisers at a proposed facility near Viljoenskroon, Free State	AMSOL Fertilizers	Public Participation & Social Consultant

Watercourse Crossings over 4 drainage lines within the authorised Nojoli WEF, Eastern Cape	ACED Cookhouse South Wind Farm	Public Participation & Social Consultant
Stormwater canal system associated with the authorised Ilanga CSP Facility, Northern Cape	Karoshhoek Solar One	Public Participation & Social Consultant
Watercourse Crossings within the Aggeneys SEF, Northern Cape	Orlight SA	Public Participation & Social Consultant
Watercourse Crossings within the authorised Nxuba (Great Fish Wind Farm) WEF, Eastern Cape	Nxuba Wind Farm	Public Participation & Social Consultant
Watercourse Crossings within the authorised Nxuba (Bedford Wind Farm), Eastern Cape	Nxuba Wind Farm	Public Participation & Social Consultant
REDISA Witbank Waste Tyre Pre-processing Depot, Mpumalanga	Recycling and Economic Development Initiative of South Africa (REDISA)	Public Participation & Social Consultant
REDISA Upington Waste Tyre Pre-processing Depot, Northern Cape	REDISA	Public Participation & Social Consultant
REDISA Nelspruit Waste Tyre Pre-processing Depot, Northern Cape	REDISA	Public Participation & Social Consultant
Cato Ridge Waste Tyre Pre-processing Depot, Northern Cape	REDISA	Public Participation & Social Consultant
Watercourse Crossings within the authorised Msenge Emoyeni WEF, Eastern Cape	Amakhala Emoyeni Renewable Energy	Public Participation & Social Consultant
Access Roads and Watercourse Crossings within the authorised Iziduli Emoyeni WEF, Eastern Cape	Emoyeni Wind Farm Renewable Energy	Public Participation & Social Consultant
Expansion of the LPG Storage Facility, Gauteng	Reatile Gaz	Public Participation & Social Consultant
Wastewater Dam, Biomass Storage Area and Pipeline for the authorised Mkuze Biomass Power Plant, KwaZulu-Natal	Navosync	Public Participation & Social Consultant
Paulputs Road Realignment, Northern Cape	Northern Cape Department of Roads and Public Works	Public Participation & Social Consultant
Klawer Watercourse Crossings and Road Upgrades within the authorised Klawer WEF, Western Cape	Klawer Wind Power	Public Participation & Social Consultant
Neopak Water Treatment Plant, Gauteng	Neopak	Public Participation & Social Consultant
Lehae Training Academy, Gauteng	Johannesburg Development Agency (JDA)	Public Participation & Social Consultant

Housing and Urban Projects

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Kuruman Metals Industrial Cluster, Northern Cape	Northern Cape Department of Economic Development and Tourism	Public Participation & Social Consultant

Basic Assessments

Project Name & Location	Client Name	Role
Postmasburg Housing Development, Northern Cape	Transnet	Public Participation & Social Consultant
Rand Leases Extension 15 Industrial Township, Gauteng	Rand Leases Properties	Public Participation & Social Consultant

Environmental Management Tools

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
<i>Karoshhoek Grid Integration, Karoshhoek Solar Valley Development – EMPr, Northern Cape</i>	<i>FG Emvelo</i>	<i>Public Participation & Social Consultant</i>
<i>Aggeneys SEF – EMPr, Northern Cape</i>	<i>Main Street 957</i>	<i>Public Participation & Social Consultant</i>
<i>Konkoonsies II SEF – EMPr, Northern Cape</i>	<i>Ramizone</i>	<i>Public Participation & Social Consultant</i>
<i>Roggeveld WEF – EMPr, Northern Cape and Western Cape s</i>	<i>Roggeveld Wind Power</i>	<i>Public Participation & Social Consultant</i>
<i>Biotherm Excelsior WEF, Western Cape</i>	<i>Amstilinx</i>	<i>Public Participation & Social Consultant</i>
<i>Garob WEF – EMPr, Northern Cape</i>	<i>Garob Wind Farm</i>	<i>Public Participation & Social Consultant</i>
<i>Hopefield Small WEF – EMPr, Western Cape</i>	<i>Hopefield Small Wind Farm</i>	<i>Public Participation & Social Consultant</i>
<i>Nojoli WEF – EMPr, Eastern Cape</i>	<i>ACED Cookhouse South Wind Farm</i>	<i>Public Participation & Social Consultant</i>
<i>Klawer WEF – EMPr, Western Cape</i>	<i>Klawer Wind Power</i>	<i>Public Participation & Social Consultant</i>
<i>Excelsior WEF Wetlands – EMPr, Western Cape</i>	<i>Amstilinx</i>	<i>Public Participation & Social Consultant</i>

Basic Assessments

Project Name & Location	Client Name	Role
<i>Nojoli WEF Substation and Power Line – EMPr, Eastern Cape</i>	<i>ACED Coohouse South Wind Farm</i>	<i>Public Participation & Social Consultant</i>

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,

