

Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (GEMSBOK SOLAR PV6) on Portion 8 of Gemsbok Bult Farm 120, north-east of Kenhardt, Northern Cape Province

# EIA REPORT

# APPENDICES

Appendix A Curriculum Vitae of the Environmental Assessment Practitioner and

Specialists

Appendix B Declarations of Interest and Independence of the Environmental

Assessment Practitioner and Specialists

Appendix C Database of Interested and Affected Parties

Appendix D Copy of Newspaper Advertisement

Appendix E Copies and Proof of Correspondence sent to I&APs during the Scoping

Phase

Appendix F Copy of Site Notice Board and Proof of Placement

Appendix G Copies of Correspondence from DEA and I&APs

Appendix H Agenda, Meeting Notes and Presentation of Pre-Application Meeting

with DEA on 17 September 2015 to discuss the proposed seven Mulilo

Solar Photovoltaic Facilities near Kenhardt in the Northern Cape.

Appendix I Title Deeds

Appendix J Technical Report: Cumulative Topographical Analysis of Proposed PV

Projects in AGA Area



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# EIA REPORT

# APPENDIX A:

Curriculum Vitae of the Environmental Assessment Practitioner and Specialists

### **CONTENTS**

Curriculum Vitae of Paul Lochner - Technical Advisor	2
Curriculum Vitae of Minnelise Levendal - Project Leader	8
Curriculum Vitae of Surina Laurie - Project Reviewer	11
Curriculum Vitae of Henry Holland - Visual Specialist	15
Curriculum Vitae of Ina Venter - Ecology (Vegetation and Freshwater) Specialist	17
Curriculum Vitae of Lukas Niemand - Terrestrial Fauna and Avifauna Specialist	20
Curriculum Vitae of Johann Lanz - Soils and Agricultural Specialist	31
Curriculum Vitae of Dr. Jayson Orton - Heritage Specialist	32
Curriculum Vitae of John Almond - Palaeontological Specialist	34
Curriculum Vitae of Rudolph du Toit - Socio-Economic Impact Assessment	36
Purriculum Vitae of Surina Laurie - Traffic Impact Statement	42

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### Curriculum Vitae of Paul Lochner - Technical Advisor

Name of firm CSIR

Name of staff Paul Andrew Lochner

Profession Environmental Assessment and Management

Position in firm Project Leader in Environmental Assessment & Management

Date of birth13 June 1969Years with firm21 yearsNationalitySouth African

#### **Biographical sketch**

Paul Lochner commenced work at CSIR in 1992, after completing a degree in Civil Engineering and a Masters in Environmental Science, both at the University of Cape Town. His initial work at CSIR focused on sediment dynamics and soft engineering applications in the coastal zone, in particular, beach and dune management. He conducted several shoreline erosion analyses and prepared coastal zone management plans for beaches. He also prepared wetland management plans.

As the market for environmental assessment work grew, he led Environmental Impact Assessments (EIAs), in particular for coastal resort developments and large-scale industrial developments located on the coast; and Environmental Management Plans (EMPs), in particular for wetlands, estuaries and coastal developments. He has also been involved in researching and applying higher-level approaches to environmental assessment and management, such as Strategic Environmental Assessment (SEA). In 1998 and 1999, he coordinated the SEA research programme within the CSIR, and was a lead author of the Guideline Document for SEA in South Africa, published jointly by CSIR and the national Department of Environmental Affairs and Tourism in February 2000.

In 1999 and 2000, he was the project manager for the legal, institutional, policy, financial and socio-economic component of the Cape Action Plan for the Environment ("CAPE"), a large-scale multi-disciplinary study to ensure the sustainable conservation of the Cape Floral Kingdom. This was funded by the Global Environmental Fund (GEF) and prepared for WWF-South Africa. The study required extensive stakeholder interaction, in particular with government institutions, leading to the development of a Strategy and Action Plan for regional conservation.

In July 2003, he was certified as an Environmental Assessment Practitioner by the Interim Certification Board for Environmental Assessment Practitioners of South Africa. In 2004 he was lead author of the *Overview of IEM* document in the updated Integrated Environmental Management (IEM) Information Series published by national Department of Environmental Affairs and Tourism (DEAT). In 2004-2005 he was project manager for an Environmental and Social Impact

Assessment (ESIA) conducted for a bauxite mine and alumina refinery in the Komi Republic (Russia), prepared in accordance with World Bank and EU policies, guidelines and standards.

In 2004-2005, he was part of the CSIR team that coordinated the preparation of the series of *Guidelines for involving specialists in EIA processes* prepared for the Western Cape Department of Environmental Affairs and Development Planning (DEADP); and authored the *Guideline for Environmental Management Plans* published by the Western Cape government in 2005.

In 2009, he led the EIA for a desalination plant in Namibia, as well as several EIAs for wind energy facilities in South Africa.

Over the past 14 years has been closely involved with several environmental studies for industrial and port-related projects in Coega Industrial Development Zone (IDZ), near Port Elizabeth. This included the SEA for the establishment of the Coega IDZ in 1996/7, an EIA and EMP for a proposed aluminium smelter in 2002/3, and assistance with environmental permit applications for air, water and waste. At the Coega IDZ and port, he has also conducted environmental assessments for port development, LNG storage and a combined cycle gas turbine power plant, manganese export, rail development, and wind energy projects.

#### **Education**

1990	B.Sc. Civil Engineering (awarded with Honours)	University of Cape Town
	Honours	
1992	M. Phil. Environmental Science	University of Cape Town

#### **Employment record**

January 1992 to June 1992: Completed Masters thesis, working in conjunction with the Environmental Evaluation Unit at the University of Cape Town. The thesis investigated the potential future ecological and socio-economic impacts resulting from the closure of a large diamond mining operation, and developed actions to mitigate these impacts.

October 1992 to present: Employed by the CSIR in Stellenbosch. Involved in coastal engineering studies; and various forms of environmental assessment and management studies. (A track record of experience is listed below).

#### PROFESSIONAL INVOLVEMENT IN COMMITTEES:

1996/97:	Committee Member of the Western Cape Branch of the International Association for Impact Assessment (IAIA)		
1997/98:	Chairperson of the Western Cape Branch of IAIA and		
	member of the national IAIA committee		
1998/99:	Committee Member of the Western Cape Branch of IAIA		
1996 to present:	Chairperson of the Blouvlei Environmental Committee at		
	Century City, Cape Town (This committee is tasked with		
	overseeing the restoration and management of a wetland in		
	the midst of a new mixed-use urban development)		

#### **Experience record**

The following table presents an abridged list of projects that Paul Lochner has been involved in, indicating his role in each project:

Completion Date	Project description	Role	Client
2011 - 2012	EIA for the <b>100 MW solar photovoltaic</b> project proposed by Mainstream Renewable Power at Blocuso, near Keimoes in the Northern Cape	Project leader	Mainstream Renewable Power
2011 – 2012	EIA for the <b>100 MW solar photovoltaic</b> project proposed by Mainstream Renewable Power at Roode Kop Farm, near Douglas, in the Northern Cape	Project leader	Mainstream Renewable Power
2011 – 2012	EIA for the 75 MW <b>solar photovoltaic project</b> proposed by Solaire Direct at <b>GlenThorne</b> , near Bloemfontein in the Free State	Project leader	Solaire Direct
2011 – 2012	EIA for the 75 MW <b>solar photovoltaic project</b> proposed by SolaireDirect at <b>Valleydora</b> , near Springfontein in the Free State	Project leader	Solaire Direct
2012 (in progress)	EIA for the 80 MW <b>solar photovoltaic project</b> by CAMAC on Farm O'Poort near postmasburg.	Project leader	CAMAC International
2010-2011	More than 10 Basic Assessments (BAs) for <b>solar photovoltaic projects</b> in the western cape, Northern Cape, Eastern Cape and Free State	Project leader	Various clients including Dutch, German, French and South African companies
2010/2011 (in progress)	<b>EIA for the Langerfontein</b> wind project near Darling, Western Cape.	Project leader	Mr Herman Oelsner, Khwe Khoa
2010/2011 (final report completed))	EIA for a 100 MW wind project at Zuurbron and a 50 MW wind project Broadlands in the Eastern Cape	Project leader	WindCurrent SA (German- based company)
2010/2011 (final report completed)	EIA for the proposed 143 MW Biotherm wind energy project near Swellendam, Western Cape, South Africa	Project leader	Biotherm South Africa (Pty) Ltd
2010/2011 (final report completed)	EIA for the proposed InnoWind wind energy projects near Swellendam, Heidelberg, Albertinia and Mossel Bay (totalling approx 210 MW), Western Cape, South Africa	Project leader	InnoWind South Africa (Pty) Ltd
2009/2010 (authorisation granted by DEA in Aug 2011	EIA for the proposed Electrawinds wind energy facility of 45-75 MW capacity in the Coega IDZ, Eastern Cape	Project leader	Electrawinds N.V. (Belgium)
2009/2010 (authorisation granted by DEA in April 2011)	EIA for proposed 180 MW Jeffreys Bay wind energy project, Eastern Cape	Project Leader and co- author	Mainstream Renewable Power South Africa
2009/2010 (authorisation granted by DEA)	Basic Assessment for the national wind Atlas for South Africa	Project leader	SANERI and SA Wind Energy Programme, Dept of Energy
2009/2010 (on hold)	<b>EIA for the proposed Gecko soda plant,</b> Otjivalunda and Arandis, Namibia	Project leader	Gecko, Namibia
2009	<b>EIA for the proposed desalination plant</b> at Swakopmund, Namibia	Project leader	NamWater, Namibia
2009	EMP for the Operational Phase of the Berg River Dam, Franschoek, South Africa	Project leader and report co-author	TCTA, South Africa
2009/2010 (in progress)	EIA for the proposed crude oil refinery at Coega, South Africa	Project leader and lead author	PetroSA, South Africa
2008	<b>Environmental Risk Review</b> for proposed LNG/CNG import to Mossel Bay, South Africa	Project leader and lead author	PetroSA, South Africa
2008	Review of the Business Plan for catchment management for the Berg Water Dam Project, Franschhoek, South Africa	Project reviewer and co- author	TCTA, South Africa
2007 – 2010	EIA for proposed Jacobsbaai Tortoise Reserve eco-	Project Leader and co-	Jacobsbaai Tortoise

Completion Date	Project description	Role	Client
(in progress)	development, Saldanha, Western Cape	author	Reserve (Pty) Ltd
2007 – 2010	Independent reviewer for the EIA proposed Amanzi	Independent reviewer	Public Process Consultants
(in progress)	lifestyle development, Port Elizabeth	appointed to advise EAP	and Pam Golding
2007 – 2008	EIA for proposed 18 MW Kouga wind energy project,	Project Leader and co-	Genesis Eco-Energy
	Eastern Cape	author	(Approved by DEDEA in
			March 2009)
2007	Review of EIA for the proposed Hanglip Eco-	Co-author of review of	Dept of Environmental
	<b>Development</b> , Plettenberg Bay, Western Cape	EIA, undertaken on	Affairs & Development
		behalf of DEADP	Planning, Western Cape
2006-2007	Scoping phase for the EIA for the proposed Coega	Project Leader and co-	Eskom and iGas
2006 2007	LNG-to-Power Project at the Port of Ngqura, Coega IDZ	author	
2006-2007	Guideline for Scoping, Environmental Impact	Project leader and co-	Dept of Minerals and
	Assessment and Environmental Management Plans for	author	Energy (DME), South Africa
2006	mining in South Africa	Duetest Leaden and as	Topograph
2006	Environmental Impact Assessment (EIA) for the	Project Leader and co-	Transnet
2006	extension of the Port of Ngqura, Eastern Cape  Integrating Sustainability Into Strategy: Handbook	author Project Leader and co-	CSIR (STEP research report)
2000	(Version 1)	author	CSIK (STEP Tesearch Teport)
2005	Technology Review for the proposed aluminium	Project Leader and lead	Alcan, Canada
2003	smelter at Coega, South Africa	author	Alcan, canada
2005	Environmental and Social Impact Assessment (ESIA)	Project manager and co-	Komi Aluminium, Russia,
2003	report for the proposed alumina refinery near	author	IFC, EBRD
	Sosnogorsk, Komi Republic, Russia	a action	3, 23.12
2005	Guideline for Environmental Management Plans	Author	Dept of Environmental
	(EMPs) for the Western Cape province, including		Affairs & Development
	conducting a training course for provincial government		Planning, Western Cape
2005	Guideline for the review of specialist studies	Member of Steering	Dept of Environmental
	undertaken as part of environmental assessments	Committee and project	Affairs & Development
		facilitator	Planning, Western Cape
2004	Review of Strategic Management Plan for Table Mountain National Park (2001-2004)	Reviewer and co-author	South African National Parks
2004	Strategic Needs Assessment Process for	Researcher and co-	CSIR (internal research)
	mainstreaming sustainable development into business	author	
	operations		
2004	Environmental Monitoring Committees booklet in the	Contributing author	Department of
	IEM Information Series for DEAT		Environmental Affairs and
			Tourism (DEAT)
2004	Overview of Integrated Environmental Management		DEAT
	(IEM) booklet in the IEM Information Series	researcher	
2003	<b>Environmental Screening Study</b> for gas power station, South Africa	Project Manager and lead author	Eskom, iGas and Shell
2003	Environmental Management Programme (EMP)	Project Manager and	Pechiney, France
	Framework for the proposed Coega Aluminium	lead author	
	Smelter; and assistance with preparing permit and		
	licence applications		
2003	Environmental Management Plan for the Operational	Project leader and lead	Century City Property
	Phase of the wetlands and canals at Century City, Cape	author	Owners' Association
2002	Town	Duning t 8.5	Doubling 5
2002	Environmental Impact Assessment for the proposed	Project Manager and	Pechiney, France
2002 2002	Pechiney aluminium smelter at Coega, South Africa	lead author	Water Deserve
2002 - 2003	Research project: Ecological impact of large-scale	Project Manager	Water Research
	groundwater abstraction on the Table Mountain Group		Commission
2002	aquifer	Conuther	Falsom
2002			Eskom
2001-2002	Energy Demonstration Facility in the Western Cape	Quality control 9: co	Eskom
ZUU1-ZUUZ	Environmental Impact Assessment for the Eskom Wind	Quality control & co- author	LSKUIII
2001	Energy Demonstration Facility in the Western Cape		SEE Association
2001	<b>Environmental Due Diligence</b> study of four strategic oil	Project manager and co-	SFF Association

Completion Date	Project description	Role	Client
	storage facilities in South Africa	author	
2000	Cape Action Plan for the Environment: a biodiversity Strategy and Action Plan for the Cape Floral Kingdom - legal, institutional, policy, financial and socio-economic component	Project manager and contributing writer	World Wide Fund for Nature (WWF): South Africa
1999	Environmental Management Plan for the establishment phase of the wetlands and canals at Century City, Cape Town	Project manager and lead author	Monex Development Company
1999	<b>Environmental Management Programme</b> for the Thesen Islands development, Knysna	Process design and Co- author	Chris Mulder Associates Inc; Thesen and Co.
1999	Management Plan for the coastal zone between the Eerste and Lourens River, False Bay, South Africa	Project manager and lead author	Heartland Properties and Somchem (a Division of Denel)
1998	<b>Environmental Assessment</b> of the Mozal Matola Terminal Development proposed for the Port of Matola, Maputo, Mozambique	Project manager and author.	SNC-Lavalin-EMS
1998	Strategic Environmental Assessment (SEA) for the Somchem industrial complex at Krantzkop, South Africa	Project manager and co- author	Somchem, a Division of Denel
1997	Strategic Environmental Assessment (SEA) for the proposed Industrial Development Zone and Harbour at Coega, Port Elizabeth, South Africa	SEA project manager and report writer	Coega IDZ Initiative Section 21 Company
1996	<b>Environmental Impact Assessment</b> of Development Scenarios for Thesen Island, Knysna, South Africa	Project manager and report writer	Thesen and Co.
1996	<b>Environmental Impact Assessment</b> of the Management Options for the Blouvlei wetlands, Cape Town	Project manager and report writer	Ilco Homes Ltd (now Monex Ltd)
1995	<b>Environmental Impact Assessment</b> for the Saldanha Steel Project, South Africa	Report writing and management of specialist studies	Saldanha Steel Project
1994	<b>Environmental Impact Assessment</b> for the upgrading of resort facilities on Frégate Island, Seychelles	Member of the project management team, co- author, process facilitator	Schneid Israelite and Partners
1994	<b>Environmental Impact Assessment</b> for exploration drilling in offshore Area 2815, Namibia	Project manager and co- author	Chevron Overseas (Namibia) Limited
1994	Management Plan for the Rietvlei Wetland Reserve, Cape Town	Project manager and lead author	Southern African Nature Foundation (now WWF-SA)
1993	<b>Beach management plan</b> for Stilbaai beachfront and dunes, South Africa	Project manager and lead author	Stilbaai Municipality
1993	Beach and dune management plan for Sedgefield for the beach east of the mouth of the Swartvlei estuary	Project manager and lead author	Nel and De Kock Planners, George
1993	Coastal Stability analysis and beach management plan for the Table View coastline north of Blaauwberg Road, Cape Town	Project manager and lead author	Milnerton Municipality

#### **Publication record**

A comprehensive list of publications, book chapters and contract reports is available upon request, with a summary provided below.

Publications in journals, peer reviewed conference proceedings and CSIR internal research reports:

Weaver A, Pope J, Morrison-Saunders A & Lochner P, 2009, Contributing to sustainability as an environmental impact assessment practitioner, *Impact Assessment and Project Appraisal* (IAPA), 26:2, 91-98. (This paper received the IAPA best paper award for 2009).

Lochner P, 2009: Case study - The role of environmental and social screening in

informing the conceptual design and planning of large-scale projects in the prefeasibility phase, in DBSA, 2009, What works for us – a South African Country report for tactics, Tools and Methods for Integrating Environment and Development (A South African Case study in partnership with the IIED), pp 37-38, Midrand, South Africa.

Lochner P, Munster F and Burns M, 2006. Integrating Sustainability into Strategy (ISIS): a process to inform sustainability strategies and frameworks, *In:* IAIA South Africa Annual Conference proceedings, South Africa.

Rossouw N and Lochner P, 2006. Environmental Monitoring Committees (EMCs): purpose, function and structure. *In:* IAIA South Africa Annual Conference proceedings, South Africa.

Munster F and Lochner P, 2006, Integrating Sustainability Into Strategy: Handbook (Version 1) – describing a process to inform sustainability strategies, frameworks and reports, *CSIR Report ENV-S-I 2005-001*, ISBN 0-7988-5560-6, Stellenbosch.

Van Zyl H, de Wit M, Munster F, Lochner P, Gerber G, 2005. Economics in Environmental Impact Assessment: demystifying the theory and practice, *In:* Conference Proceedings of the IAIA South Africa 2005 Annual National Conference. South Africa.

Lochner P, Weaver A, Gelderblom C, Peart R, Sandwith T and Fowkes S, 2003. Aligning the diverse: the development of a biodiversity conservation strategy for the Cape Floristic Region. *Biological Conservation Vol. 112, ISSN:* 0006-3207.

Lochner P, Münster F, Msutu M, Wren S, 2003. The role of stakeholder engagement in the EIA for the Coega Aluminium Smelter. *In:* Conference Proceedings of the IAIA South Africa 2003 Annual National Conference. ISBN 1-919891-04-8. South Africa.

Lochner P, Brooks W, Pesch P & Münster M. 2003, Stakeholder engagement process in the EIA of an aluminium smelter, Published in *Light Metals* 2003 (Ed. Paul Crepeau), Published by TMS (the Minerals, Metals & Materials Society), ISBN Number 0-87339-531-X, USA.

Rossouw N, Audouin M, Lochner P, Heather-Clark S and Wiseman K, 2000. Development of strategic environmental assessment in South Africa. *Impact Assessment and Project Appraisal*. Vol 18, no. 3, pp 217-223. United Kingdom.

Lochner P and Fowkes S, 2000. Building partnerships for the conservation of the biodiversity of the Cape Floral Kingdom: experiences and lessons learnt from the Cape Action Plan for the Environment. IAIA-SA Conference Proceedings 2000. South Africa.

Lochner P and Rossouw N, 1997. The development of an Environmental Management Plan for incorporating a wetland into a large mixed use development: the Century City example. IAIA-SA Conference Proceedings 1997. South Africa.

#### Language capability

	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Afrikaans	Average	Average	Average

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## Curriculum Vitae of Minnelise Levendal - Project Leader

Name of firm CSIR

Name of staff Minnelise Levendal

**Profession** Environmental Assessment and Management

Position in firm Project Manager

Years' experience 8 years

Nationality South African

**Languages** Afrikaans and English

#### **CONTACT DETAILS:**

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 021-888 2495/2661

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#### **BIOSKETCH:**

Minnelise joined the CSIR Environmental Management Services group (EMS) in 2008. She is focussing primarily on managing Environmental Impact Assessments (EIAs), Basic Assessments (BAs) and Environmental Screening studies for renewable energy projects including wind and solar projects. These include an EIA for a wind energy facility near Swellendam, Western Cape South Africa for BioTherm (Authorisation granted in September 2011) and a similar EIA for BioTherm in Laingsburg, Western Cape (in progress). She is also managing two wind farm EIAs and a solar Photovoltaic BA for WKN-Windcurrent SA in the Eastern Cape. Minnelise was the project manager for the Basic Assessment for the erection of ten wind monitoring masts at different sites in South Africa as part of the national wind atlas project of the Department of Energy in 2009 and 2010. She was also a member of the Project Implementation Team who managed the drafting of South Africa's Second National Communication under the United Nations Framework Convention on Climate Change. The national Department of Environmental Affairs appointed the South African Botanical Institute (SANBI) to undertake this project. SANBI subsequently appointed the CSIR to manage this project.

#### **EDUCATION**

•	M.Sc. (Botany)	Stellenbosch University	1998	
•	B.Sc. (Hons.) (Botany)	University of the Western Cape	1994	
•	B.Sc. (Education)	University of the Western Cape	1993	

#### **MEMBERSHIPS:**

- International Association for Impact Assessment (IAIA), Western Cape (member of their steering committee from 2001-2003)
- IUCN Commission on Education and Communication (CEC); World Conservation Learning Network (WCLN)
- American Association for the Advancement of Science (AAAS)
- Society of Conservation Biology (SCB)

#### **EMPLOYMENT RECORD:**

- 1995: Peninsula Technicon. Lecturer in the Horticulture Department.
- 1996: University of the Western Cape. Lecturer in the Botany Department.
- 1999: University of Stellenbosch. Research assistant in the Botany Department (3 months)
- **1999:** Bengurion University (Israel). Research assistant (Working in the Arava valley, Negev Israel; 2 months). Research undertaken was published (see first publication in publication list)
- 1999-2004: Assistant Director at the Department of Environmental Affairs and Development Planning (DEA&DP). Work involved assessing Environmental Impact Assessments and Environmental Management Plans; promoting environmental management and sustainable development.
- **2004 to present:** Employed by the CSIR in Stellenbosch:
- September 2004 May 2008: Biodiversity and Ecosystems Services Group (NRE)
- May 2008 to present: Environmental Management Services Group (EMS)

#### **PROJECT EXPERIENCE RECORD:**

The following table presents a list of projects undertaken at the CSIR as well as the role played in each project:

Completion Date	Project description	Role	Client
2011 (in progress)	EIA for the proposed Electrawinds Swartberg wind energy project near Moorreesburg in the Western Cape	Project Manager	Electrawinds
2010-2011 (in progress)	EIA for the proposed Ubuntu wind energy project, Eastern Cape	Project Manager	WKN Windkraft SA
2010-2011 (in progress)	EIA for the proposed Banna ba pifhu wind energy project, Eastern Cape	Project Manager	WKN Windkraft SA
2010-2011	BA for a powerline near Swellendam in the Western Cape	Project Manager	BioTherm Energy (Pty Ltd
2010-2011 (Environmental Authorisation granted in September 2011)	EIA for a proposed wind farm near Swellendam in the Western Cape	Project Manager	BioTherm Energy (Pty Ltd
2010 (complete)	Basic Assessment for the erection of two wind monitoring masts near Swellendam and Bredasdorp in the Western Cape	Project Manager	BioTherm Energy (Pty Ltd
2010 (complete)	Basic Assessment for the erection of two wind monitoring masts near Jeffrey's Bay in the Eastern Cape	Project Manager	Windcurrent (Pty Ltd
2009-2010 ((Environmental Authorisations granted	Basic Assessment Process for the proposed erection of 10 wind monitoring masts in SA as	Project Manager	Department of Energy through SANERI; GEF

Completion Date	Project description	Role	Client
during 2010)	part of the national wind atlas project		
2010	South Africa's Second National	Project	SANBI
	Communication under the United Nations Framework Convention on Climate Change	Manager	
2009 (Environmental Authorisation granted in 2009)	Basic Assessment Report for a proposed boundary wall at the Port of Port Elizabeth, Eastern Cape	Project Manager	Transnet Ltd
2008	Developing an Invasive Alien Plant Strategy for the Wild Coast, Eastern Cape	Co-author	Eastern Cape Parks Board
2006-2008	Monitoring and Evaluation of aspects of Biodiversity	Project Leader	Internal project awarded through the Young Researchers Fund
2006	Integrated veldfire management in South Africa. An assessment of current conditions and future approaches.	Co- author	Working on Fire
2004-2005	Biodiversity Strategy and Action Plan Wild Coast, Eastern Cape, SA	Co-author	Wilderness Foundation
2005	Western Cape State of the Environment Report: Biodiversity section. (Year One).	Co- author and Project Manager	Department of Environmental Affairs and Development Planning

#### **PUBLICATIONS:**

**Bowie, M**. (néé Levendal) and Ward, D. (2004). Water status of the mistletoe *Plicosepalus acaciae* parasitic on isolated Negev Desert populations of *Acacia raddiana* differing in level of mortality. Journal of Arid Environments 56: 487-508.

Wand, S.J.E., Esler, K.J. and **Bowie, M.R** (2001). Seasonal photosynthetic temperature responses and changes in <sup>13</sup>C under varying temperature regimes in leaf-succulent and drought-deciduous shrubs from the Succulent Karoo, South Africa. South African Journal of Botany 67:235-243.

**Bowie, M.R.**, Wand, S.J.E. and Esler, K.J. (2000). Seasonal gas exchange responses under three different temperature treatments in a leaf-succulent and a drought-deciduous shrub from the Succulent Karoo. South African Journal of Botany 66:118-123.

#### **LANGUAGES**

Language	Speaking	Reading	Writing
English	Excellent	Excellent	Excellent
Afrikaans	Excellent	Excellent	Excellent

Minnelise Levendal

Movend

October 2015

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# Curriculum Vitae of Surina Laurie - Project Reviewer

Name of firm CSIR

Name of staff Surina Laurie

**Profession** Environmental Assessment Practitioner

**Position in firm** Project Manager

Years' experience 4 years

Nationality South African

#### **Biographical sketch**

Surina has 4 years' experience as an Environmental Assessment Practitioner (EAP). She completed both her BSc in Conservation Ecology and MPhil in Environmental Management (part-time) at the University of Stellenbosch. With her honours project, she worked closely with the Endangered Wildlife Trust Riverine Rabbit Working Group and was responsible for determining the conservation opportunity for the Riverine Rabbit in the Karoo. With this project, she gained valuable experience in how to interact and manage stakeholders in such a way that a project's objectives and conservation goals are met without the stakeholders not being included in the decision-making process. The management of stakeholders and the ability to incorporate their needs into the objectives of a project is seen as an essential component of an Environmental Impact Assessment (EIA) process.

With her Masters' thesis she researched and addressed why there is a need to undertake a Cost Benefit Analysis (CBA) as part of any EIA. The need for a CBA stems from the fact that losing environmental services will have an economic impact on a regional/national level in the long term but this is usually not considered during an EIA process. A CBA will look at both the economic benefits (profit) from a project and the economic losses because of loss of ecosystem services or rehabilitation costs. By including a CBA in an EIA, both the economic and environmental financial implications (not just the environmental significance of an impact) of a project will be considered by the decision making authority prior to the issuing of Environmental Authorisations or permits.

She has experience in undertaking Basic Assessments and Scoping and Environmental Impact Assessments for various sectors, including renewable energy, industry and tourism. She also has experience in undertaking environmental audits, due diligence assessments and the compilation of Environmental Management Programmes.

	Registered Professional Natural Scientist (Pr. Sci. Nat.) in Environmental Science (Reg. No: 400033/15) with the South African Council of Natural Scientific Professions.		
Education	2015 (current)	Certificate in Environmental Economics, University of London (SOAS)	
	2013	Project Management Course, University of Cape Town Graduate School of Business	
	2011-2012	MPhil Environmental Management, University of	
	(Part-time) Stellenbosch		
	2007-2010	BSc Conservation Ecology, University of Stellenbosch	

#### **Employment Record**

Feb 2014 to present	CSIR, Project Manager, EAP
Sept 2011 to Jan 2014	WSP Environmental (Pty) Ltd, Environmental Consultant
Nov 2010 to Aug 2011	EnviroAfrica, Junior Environmental Consultant

#### **Experience record**

Abridged experience in Environmental Impact and Basic Assessment processes:

Date	Project Description	Role	Client
2014 - present	Integrated Scoping and EIA process for the construction of three Photovoltaic (PV) or Concentrated Photovoltaic (CPV) Solar Facilities with a generating capacity of 75 MW each on the farms remaining extent of Portion 3 of the Farm Gemsbok Bult 120 and Boven Rugzeer remaining extent of 169, located 30 km north-east of Kenhardt. Two of the projects will be located on the farm remaining extent of Portion 3 of the Farm Gemsbok Bult 120 and one on Boven Rugzeer remaining extent 169.	Project Manager	Mulilo Renewable Project Development (Pty) Ltd
2014 - present	Integrated Scoping and EIA process for the development of twelve (12) Photovoltaic (PV) or Concentrated Photovoltaic (CPV) Solar Facilities with a generating capacity of 75 MW/100MW each, near Dealesville, Free State.	Project Manager	South Africa Mainstream Renewable Power Developments (Pty) Ltd
2013-2014	Basic Assessment for the construction of three additional petroleum storage tanks at the Cape Town Harbour.	Environmental Consultant	FFS Refiners (Pty) Ltd
2013-2014	Scoping and EIA for the construction of a Sewage Package Plant on Robben Island.	Environmental Consultant	Department of Public Works
2013	Development of an EMPr for the undertaking of maintenance work on the Stilbaai Fishing Harbour's Slipway located in Stilbaai, Western Cape, South Africa. In order to be compliant to the requirements of the National Environmental Management Act (Act 107 of 1998) and Environmental Impact Assessment (EIA) Regulations, a Maintenance Management Plan (MMP) needed to be developed to manage the environmental impacts associated with maintenance work that is scheduled to be undertaken on the Stilbaai Fishing Harbour's Slipway as well as any future on-going maintenance requirements.	Environmental Consultant	Department of Public Works
2012-2014	Waste Management License for the proposed	Environmental	The New Reclamation

Date	Project Description	Role	Client
	storage of Ferrous HMS 1+2, Shredded Ferrous and Bales located at the K/L Berth at Duncan Road, Port of Cape Town	Consultant	Group (Pty) Ltd
2012-2014	Scoping and EIA for the construction a biodiesel refinery in the Coega Industrial Development Zone (IDZ). The proposed project entails the import of used vegetable oil from the USA and converting it through various processes to biodiesel which will be exported to Europe. The proposed project requires an Air Emissions License, a Waste Management License and Environmental Authorisation.	Environmental Consultant	FIS Biofuels (Ltd)
2013-2013	Basic Assessment for the proposed redevelopment of Berths B, C and D in Duncan Dock at the Port of Cape Town.	Assistant Environmental Consultant	FPT (Pty) Ltd
2011- 2012	Development of an EMPr for the Eerstelingsfontein Opencast Project (EOP).	Assistant Environmental Consultant	Exxaro Resources Limited
2011-2014	Basic Assessment for the proposed reinstatement of the Blue Stone Quarry located on Robben Island.	Assistant Environmental Consultant	Department of Public Works
2011	Scoping and EIA for the proposed upgrade to the Struisbaai WWTW.	Assistant Environmental Consultant	Cape Agulhas Municipality
2011	Basic Assessment for the construction of a cellular mast.	Environmental Consultant	MTN (Pty) Ltd
2010-2011	Basic Assessment for the construction of a Heritage Centre.	Environmental Consultant	Waenhuiskrans Arniston Community Development Trust
2010-2011	Scoping and EIA for the rezoning of the area from open space to residential, the construction of six residential units and the upgrading of the existing Waste Water Treatment Plant.	Environmental Consultant	Private developer

Abridged experience in undertaking the role of an Environmental Control Officer and compliance auditing:

Date	Project Description	Role	Client
2013- 2014	The proposed extension project involved the installation of five new above ground storage tanks. The two largest tanks have a tank capacity of 2,500m <sup>3</sup> each and a height of 18m. The three smaller tanks have a tank capacity of 2,300m <sup>3</sup> , 1,350m <sup>3</sup> and 212m <sup>3</sup> and heights of 18m, 10.8m and 10.8m respectively, giving an additional 8862m <sup>3</sup> storage capacity to the current FFS operation	ECO	FFS Refiners (Pty) Ltd
2012- 2014	Compliance auditing of drum re-conditioners for the used oil industry in the Western Cape.	Assistant Environmental Consultant	The Rose Foundation
2012	Environmental legal compliance auditing of various Much Asphalt sites. The audit entailed review of national, provincial legislation and municipal by-laws and a site visit in order to determine whether the sites were compliant to the relevant environmental legislation.	Environmental Consultant	Much Asphalt
2011- 2013	Construction of a new De-Ashing Plant for FFS Vissershok Construction of a De-Ashing Plant. This project involved the monthly independent audits and reports of all the environmental and	ECO	FFS Refiners (Pty) Ltd

Date	Project Description	Role	Client
	social aspects of the construction phase the new		
	De-Ashing Plant at Vissershok.		
2011- 2012	Construction of the new 1200m <sup>3</sup> Tank at FFS	ECO	FFS Refiners (Pty) Ltd
	Cape Town Harbour Site. This project involved		
	two site audits per month to ensure compliance		
	to the Environmental Authorisation and		
	Environmental Management Plan for the		
	proposed project.		

Language capabilities		Speaking	Reading	Writing
	Afrikaans	Excellent	Excellent	Excellent
	English	Excellent	Excellent	Excellent

### Curriculum Vitae of Henry Holland - Visual Specialist

Profession: GIS Consultant

Date of Birth: 26 December 1968

#### **BIOGRAPHICAL SKETCH**

Henry has been doing GIS related work since 1992 when he started his M.Sc. in Geology. Since finishing his Masters he worked in Angola establishing a GIS department for a diamond exploration company, after which he worked on a freelance basis for eight years doing GIS related work and computer programming. In 2005 he established the Mapthis Trust which provides geospatial services for a range of environmental and geological companies and projects. Henry has been involved in Visual Impact Assessments (VIAs) since 1997.

#### **TERTIARY EDUCATION**

1996	M. Sc. Geology/GIS	Rhodes University
1986	B.Sc. Hons	UOFS

#### **KEY EXPERIENCE**

The table below presents an abridged list of Henry's project experience relevant to this proposal:

Completion	Project Description	Role	Client
Date			
2015	Umgeni Water Lovu and Tongaat	Author	CSIR
	Desalination Plants EIAs, KwaZulu-Natal		
2015	Inyanda-Roodeplaat WEF, Uitenhage,	Author	SRK
	EC		
2015	OTGC Oil Storage Terminal BA – Visual	Author	CSIR
	Impact, Durban, KZN		
2014	Mainstream Dealesville Solar Plants	Author	CSIR
	VIA, Freestate Province		
2014	Mulilo Solar Plants VIA, Northern Cape	Author	CSIR
2014	Frontier SRMOP EIA, Saldanha, WC	Author	CSIR
2013	Ishwati Emoyeni Wind Energy Facility	Author	CSIR
	VIA, Western Cape		
2013	Venter Fert Composting and Fertiliser	Author	Public Process Consultants
	Plant		
2013	Kipeto Power Line, Kenya	Author	Kipeto Energy Ltd.
2012	Ngqura Manganese Export Facility VIA,	Author	CSIR
	Coega, Eastern Cape		
2012	Toliara Sands Mining Project VIA,	Author	CES
	Toliara, Madagascar		
2012	Mkuze Biofuel Power Plant VIA, Mkuze,	Author	CSIR
	KwaZulu-Natal		
2012	Vleesbaai WEF VIA, Western Cape	Author	CSIR
2012	Saldanha Desalination Plant VIA,	Author	CSIR

Completion	Project Description	Role	Client
Date			
	Saldanha Bay, Western Cape		
2012	Mossel Bay WEF, Western Cape	Author	CES
2012	Keimoes Solar Energy Facility, NC	Author	CSIR
2012	Douglas Solar Energy Facility, NC	Author	CSIR
2012	Richards Bay WEF VIA, KZN	Author	CES
2012	Hluhluwe WEF VIA, KZN	Author	CES
2012	Plan8 Grahamstown Wind Farm VIA, Eastern Cape	Author	CES
2012	Kipeto Wind Farm VIA, Kenya	Author	Galetech Energy Developments Ltd.
2011	Coega IDZ Zone 12 Wind Farm	Author	CSIR
2011	Haverfontein Wind Farm, Mpumalanga	Author	CES
2011	Middleton Wind Farm, Cookhouse	Author	CES
2011	Broadlands PV Plant, Humansdorp	Author	CSIR
2011	Ubuntu Wind Farm, Jeffrey's Bay	Author	CSIR
2011	Lushington Park Wind Farm, East London	Author	CES
2011	Chaba Wind Farm, Komga	Author	CES
2010	Thomas River Wind Farm and PV Park VIA, Stutterheim	Author	CES
2010	Eskom Power Line VIA, Kouga	Author	CES
2010	Laguna Bay Resort VIA	Author	CES
2010	Kouga Wind Farm VIA	Author	Arcus GIBB
2010	Electrawinds Coega Wind Farm VIA	Author	CSIR
2010	Innowind Coega Wind Farm VIA	Author	CES
2010	Jeffrey's Bay Wind Farm VIA, Jeffrey's Bay	Author	CSIR
2010	Cookhouse Wind Farm VIA, Cookhouse	Author	CES
2009	Waainek Wind Farm VIA, Grahamstown	Author	CES
2009	Coega Wind Turbine BA (Visual Input)	Author	CSIR
2009	Sierra Leone Ethanol Plant VIA	Author	CSIR
2009	NamWater Desalination Plant VIA,	Author	CSIR
	Swakopmund, Namibia		
2009	Nooitgedagt/Coega Water Supply VIA, Motherwell	Author	SRK
2009	CDM Brewery VIA, Nampula, Mozambique	Author	CES
2009	TankaTara Preliminary Visibility Analysis, Addo	Author	CES
2008	Kouga Wind Energy Project VIA, Jeffreys Bay	Author	CSIR
2008	Aston Bay VIA	Author	CES
2008	NPA Boundary Wall VIA, Port Elizabeth	Author	CSIR
2008	Elitheni Coal Mining VIA, Indwe	Author	Savannah Environmental (PTY) Ltd.
2008	Coegakamma Chicken Broiler Housing VIA	Author	Public Process Consultants
2008	Amanzi Country Lifestyle Estate VIA, Uitenhage	Author	Public Process Consultants

### Curriculum Vitae of Ina Venter - Ecology (Vegetation and Freshwater) Specialist

Name: Catharina Elizabeth (Ina) Venter trading as Kyllinga Consulting

Position: Senior Ecologist and Wetland Scientist

Date of Birth: 29 December 1979
Nationality: South African
Languages: Afrikaans, English

#### **EDUCATIONAL QUALIFICATIONS**

- M.Sc (Botany), University of Pretoria (2003)
- B.Sc Hons (Botany), University of Pretoria (2001)
- B.Sc (Environmental Sciences), University of Pretoria (2000). Majored in Geography and Botany
- Matriculated, Sasolburg High School (1997)

#### **Additional**

- Introduction to ArcGIS 1 (2006)
- Bringing your data into ArcGIS (2006)
- Introduction to ArcView 3.x (2003).

#### **FIELDS OF EXPERTISE**

Ecological Assessment:

Ecological Assessments as part of the Environmental Impact Assessment Process

Wetland Assessment:

Wetland Assessments as part of the Environmental Impact Assessment Process and Water Use Applications, as well as rehabilitation plans for wetlands, including planning or the Working for Wetlands programme. Large scale wetland assessments (catchment scale).

• GIS:

Compilation of maps for submission as part of Environmental Impact Assessment Process. Creating spatial databases and large scale wetland maps (catchment scale). Projection conversions and matching/overlaying different format GIS maps.

• Environmental Impact Assessment

Undertaken numerous Environmental Scoping Reports, as required by the Environment Conservation Act, 1989 (Act 73 of 1989), the National Environmental Management Act, 1998 (Act 107 of 1998), as amended and the Development Facilitation Act, 1995 (Act 67 of 1995). Project experience includes the establishment of various housing typologies, golf courses, commercial and industrial projects, infrastructure development (roads), resorts and/or game lodges as well as filling stations.

• Public Participation:

Undertaken numerous public participation processes, ranging from basic to extensive, as required by relevant environmental legislation.

#### **MEMBERSHIP IN PROFESSIONAL SOCIETIES**

- Professional Natural Scientist (Pr.Sci.Nat) in the field of Botanical Science (Reg no. 400048/08)
- Member of the Botanical Society of South Africa

#### **EMPLOYMENT HISTORY EXPERIENCE**

Kyllinga Consulting (July 2015 - present)

Senior Ecologist responsible for wetland and ecological specialist assessments.

Spatial Ecological Consulting (February 2010 – June 2015)

Senior Ecologist responsible for wetland and ecological specialist assessments.

#### • Wetland Related Assessments

More than 40 wetland assessments conducted between 2010 and 2015.

Vegetation Assessments

Approximately 16 vegetation assessments between 2010 and 2015.

#### Management Plans

Completed two ecological management plans.

#### MSA Group Services (previously Exigent Environmental CC) (August 2004 – January 2010)

Environmental Scientist responsible for ecological and wetland assessments and the compilation of maps. Also conducted various scoping and EIA applications and EMPRs.

#### • Ecological Assessments

In excess of 50 ecological assessments conducted between 2004 and 2010, including managing the inclusion of the fauna specialist assessments.

#### Wetland Assessments

More than 60 wetland verification projects, wetland delineations and wetland assessments, completed between 2004 and 2010.

#### As well as:

Rehabilitation Projects; Fatal Flaw / Screening Assessments; National Department of Agriculture
Authorisations; Mining Related Assessments; Private, Public Partnership Projects; Resource Management Plans
(RMP); Environmental Management Plans; Environmental Management Programme; Environmental
Exemption Processes; Basic Assessments; Environmental Impact Assessments

#### Part-time employment (2002-2004)

Tutor for botany practicals; Assisting Wildlife management students with Braun-Blanquette analysis; Researcher for a project on the vegetation communities and ecology of the Kruger National Park; Research assistant for the analysis of street trees in Tshwane urban forest; Various part time projects related to vegetation and wetlands

#### **COUNTRIES OF WORK EXPERIENCE**

- South Africa
- Lesotho
- Botswana
- Mozambique

#### **PAPERS AND PUBLICATIONS**

Co-author and data contributor to: SIEBEN, E. *et al.* The vegetation of inland wetlands with salt-tolerant vegetation in South Africa: description, classification and explanatory environmental factors, submitted to the South African Journal of Botany for review in Feb 2015.

Co-author and data contributor to: SIEBEN, E. *et al*. The herbaceous vegetation of subtropical freshwater wetlands in South Africa: description, classification and explanatory environmental factors, submitted to the South African Journal of Botany for review in Feb 2015.

Co-author and data contributor to: SIEBEN, E. *et al*. The vegetation of grass lawn wetlands of floodplains and pans in semi-arid regions of South Africa: description, classification and explanatory environmental factors, submitted to the South African Journal of Botany for review in Jan 2015.

Co-author of several vegetation descriptions in: MUCINA, L. & RUTHERFORD, M.C. (eds) 2006. The Vegetation of South Africa, Lesotho and Swaziland. Strelitzia 19. South African National Biodiversity Institute, Pretoria.

Venter, C.E. & Bredenkamp, G.J. In prep. Major plant communities on the Mfabeni swamp, St Lucia. Bothalia.

Venter, C.E.; Bredenkamp, G.J. & Grundling, P-L. 2003. Plant community types, and their association with habitat factors as ecosystem driving forces, of Mfabeni swamp. Proceedings of the congress: *Environment of the St Lucia Wetland: Processes of Change*, Cape Vidal, September 4<sup>th</sup>- 7<sup>th</sup>, 2003.

Venter, C.E.; Bredenkamp, G.J.; Grundling P-L. 2002. Vegetation change on rehabilitated peatland on Rietvlei Nature Reserve. *Kudu* 46(1):53-63.

#### **PRESENTATIONS**

Venter, C.E.; Bredenkamp, G.J. & Grundling, P-L. 2003. Plant community types, and their association with habitat factors as ecosystem driving forces, of Mfabeni Swamp. *Environment of the St Lucia Wetland: Processes of Change*, Cape Vidal, September 4<sup>th</sup>- 7<sup>th</sup>, 2003.

#### **Poster Presentations**

Venter, C.E.; Bredenkamp, G.J.; Grundling P-L. 2002. Baseline vegetation surveys of rehabilitated peatland on Rietvlei Nature Reserve. SAAB Converence. Grahamstown.

Venter, C.E.; Bredenkamp, G.J.; Grundling P-L. 2003. Vegetation change on rehabilitated peatland on Rietvlei Nature Reserve. SAAB Converence. Pretoria.

### Curriculum Vitae of Lukas Niemand -Terrestrial Fauna and Avifauna Specialist

#### **CURRICULUM VITAE**

Name: LUKAS JURIE NIEMAND

Company: Pachnoda Consulting cc (Director)

Date of Birth: 1974-03-12
Nationality South African

Languages: English and Afrikaans

#### **EDUCATIONAL QUALIFICATIONS**

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#### MEMBERSHIP IN PROFESSIONAL SOCIETY

- Professional Natural Scientist (Pr. Sci. Nat.) (Reg. no. 400095/06)
- BirdLife South Africa
- Hartbeespoort Natural Heritage Society

#### EXPERIENCE

#### A. Work conducted in South Africa

- 1. General Ecological Assessments (Fauna, Flora and Red Data Scans, including both functional and compositional aspects);
- Belvedere Trust, Proposed retirement village on Amorosa Agricultural Holdings, Roodepoort, Gauteng (2004);
- City of Joburg Property Development Company, Proposed upgrade and development of the Orlando Dam Intersection, Soweto, Gauteng (2004);
- PDNA, Proposed NASREC development, Johannesburg, Gauteng (2004);

- 17 Shaft Conference and Education Centre, Proposed establishment of the Veteran's Heritage Education Centre, Crown Mines, Gauteng (2004);
- GAUTRANS, Proposed re-alignment of Road D781 and construction of a road bridge over the Rietvleispruit, Kempton Park, Gauteng (2004).
- Mr. N. Lang, Ecological Opinion on the proposed establishment of a township, Muldersdrift, Gauteng (2004);
- AGES, Proposed Equestrian Centre, Leeufontein 299 IR, Gauteng (2004);
- PDNA, Proposed new bridge and re-alignment of a portion of provincial road P101-2 (R51), Laversburg, Gauteng (2004).
- Blenneerville Investment (Pty) Ltd, Proposed construction of a residential and commercial development on of Paradiso Estate, Tweefontein 372 JR, Gauteng (2004);
- Les Roches (Pty) Ltd, Proposed zoning of holdings 1, 2 & 3 of Hyde Park Agricultural Holdings, Gauteng (2004);
- Transnet Limited, Terrestrial Faunal Ecological Opinion: Phase 1B expansion of the Sishen-Saldanha Iron ore export corridor, Saldanha Bay, Western Cape (2005);
- Celebration North Riding (Pty) Ltd, Proposed mixed land-use development, North Riding.
   Gauteng (2005);
- Wilderness Safaris, Proposed upgrade of the Manzengwenya Dive Camp, Greater St. Lucia Wetlands Park, KwaZulu-Natal (2005);
- Wilderness Safaris, Proposed upgrade of the Rocktail Bay Camp, Greater St. Lucia Wetlands Park, KwaZulu-Natal (2005);
- GAEA Projects, Corridor Assessment for the proposed Sibaya Precinct, KwaZulu-Natal (2005);
- Computer Domain Holdings (Pty) Ltd, Red Data Floral Scan on portion 3 of the farm Elandshoek, portions 12 & 27 of the farm Groot Suikerboschkop, and portions 5 & 10 of the farm Palmietfontein, Dullstroom (2005);
- Zong's Property Investments, Proposed establishment of a residential development on a portion of Pomona Estates Agricultural Holdings, Pomona, Gauteng (2005);
- GJ van Zyl Trust, Proposed development of a resort on the Farm Witpoort 216 JS, Mpumalanga (2005);
- Mr. Howard Walker, Proposed subdivision of the Farm Lunsklip 105 JT, and the Farm Morgenzon 122 JT, for the establishment of a private resort, Dullstroom, Mpumalanga (2005);
- Lavender Manor cc, Proposed establishment of a retail, commercial and Lavender Manor Township on part of farm Rietfontein 189 IQ, Muldersdrift, Gauteng (2005).

- Geo Pollution Technologies, Proposed establishment of a residential development: Noordwyk
   Ext 65 & 80 on Erand Agricultural Holdings, Midrand, Gauteng (2005);
- Mr. A. Le Roux, Proposed Cradle View Country Estate, Muldersdrift, Gauteng (2006).
- Viking Bay Development Company (Pty) Ltd, Proposed Viking Bay freshwater marina and hotel development, Vaal Dam, Gauteng (2006);
- Land for Africa (Pty) Ltd, Ecological Opinion for the proposed establishment of a residential township on holding 122 Erand Agricultural Holding Extension 1, Halfway House, Midrand, Gauteng (2006);
- Brickot Developments cc, Ecological opinion for the proposed Bethal Retirement Village on the remainder of portion 3 of the farm Mooifontein 108 IS, Bethal, Mpumalanga (2006);
- Brawild (Pty) Ltd, Red Data Scan for the proposed Annlin Ex 117, Pretoria, Gauteng (2006);
- Mbombela Local Municipality, Ecological Opinion for the proposed extension of the Lowveld Botanical Gardens, Nelspruit, Moumalanga (2006);
- Natural Scientific Services cc, Botanical survey for the SASOL Mafutha coal project near Lephalate, Limpopo Province, RSA (2008);
- SRK Consulting, Ecological assessment on Vlakfontein area, NW of Ogies, Mpumalanga. Report compiled in association with Ekolnfo (2009); and
- Aurecon, Desktop biodiversity assessment and wetland scan: upgrade of the River View waste water treatment works, eMalahleni, Mpumalanga province. Report compiled in association with Imperata Consulting (2009).
- 2. Mining and Industrial related projects (ecological)
- Lonmin Platinum (Western Platinum Limited), Ecological Assessment for the proposed MK3 Shaft Complex on the farm Wonderkop 400 JQ, Rustenburg, North West Province (2004),
- Impala Platinum Limited, Ecological Assessment for prospecting SEMPs on the farms Buffelshoek 386 KT, Kalkfontein 367 KT, Spitskop 333 KT, Steelpoortpark 366 Kt and Tweefontein 360 KT and Hackney 116 KT (all Sekhukhuneland), Mpumalanga and Limpopo Province (2004);
- Trans-Caledon Tunnel Authority (TCTA), Ecological Assessment for borrow pit SEMPs on the TCTA pipeline, Vaal Marina to Secunda (2005);
- Boynton Platinum (Pty) Ltd, Ecological Assessment for the proposed establishment of platinum mines on the farms Tuschenkomst 135 JP, Witkleifontein 136 JP and Ruighoek 169 JP, North West Province (2005);
- Impala Platinum Holdings, Ecological Assessment for prospecting SEMPs on the Impala Platinum Bafokeng Mining Complex, North West Province (2005).

- Ceramic Industries Limited, Ecological Assessment of the Rietspruit Clay Quarries, Vanderbijlpark, Gauteng (2005);
- Ekurhuleni Metropolitan Municipality, Ecological Assessment Report for the proposed GLB Ländfill Site on the farm Zesfontein 27 IR, Benoni, Gauteng (peer reviewed, 2006);
- Ceramic Industries Limited, Ecological Assessment of the Leeukuil Clay Quarries, Vanderbijlpark, Gauteng (2006);
- Council for Geoscience, Habitat sensitivity assessment scoping report for Bon Accord quarry on a portion of the farm de Onderstepoort 300-JR, Tshwane, Gauteng (2007);
- Fraser Alexander, Biodiversity action plan for Lonmin Limpopo & Platinum, North West & Limpopo Province, RSA (2008-2009);
- Envirolution Consulting (Pty) Ltd., Ecological screening report and site selection process for an Eskorn general landfill and hazardous waste storage facility near Lephalale, Limpopo Province, RSA (2009);
- Envirolution Consulting (Pty) Ltd., Ecological assessment for the proposed construction of an Eskom general landfill and hazardous waste storage facility at the Matimba Power Station, Limpopo Province, RSA (2009);
- Shangoni/Vergenoeg Mining Company, Ecological assessment for the proposed construction of a slurry pipeline and waste rock dump at the Vergenoeg Mine, Gauteng (2011);
- ENVASS, An ecological evaluation (vertebrate & avifaunal component) for the proposed alternative energy plant on Portion 3, 4 & 5 of the Farm Groenwater 453, Northern cape (2012); and
- ENVASS, Ecological evaluation (vertebrate & avifaunal component) for the proposed alternative energy plant on Ixun & khwe, Northern cape (2012).

#### 3. Avifaunal and Invertebrate Assessments:

- Lavender Manor cc, Red Data Bird Assessment for the proposed establishment of a retail, commercial and Lavender Manor Township on part of the farm Rietfontein 189 IQ, Muldersdrift, Gauteng (2004);
- Helga Schneider & Associates, Avifaunal & Invertebrate Red Data Assessment for the proposed rezoning & subdivision on Erf 6486 Orange Farm Ext 2, Johannesburg, Gauteng (2005);
- TOWNDEV, Avifaunal and Arachnid Assessment for the proposed subdivision of Grootfontein 349 JR, Rievlei Dam, Gauteng (2006);
- Prof. Van Rensburg, Red Data Invertebrate Scan for the proposed Rietvalleirand Extension 59, Gauteng (2006);

- Group Five Property Development, Invertebrate Assessment for the proposed Buccleuch Ex
   1, Gauteng (2006);
- Zong's Property Investments, Avifaunal and Metisella meninx assessment for the establishment of a residential development on a portion of Pomona Estates Agricultural Holdings, Pomona, Gauteng (2006);
- Waterval Islamic Institute, Avifaunal and Invertebrate Assessment for the proposed Northern Golf Course Development, Midrand, Gauteng (2006);
- Ekurhuleni Metropolitan Municipality, Avifaunal & Invertebrate Red Data Assessment for the proposed low-cost housing development on Olifantsfontein 410 JR, Gauteng (2006);
- City of Tshwane Metropolitan Municipality, Invertebrate Red Data Scan for the proposed flood remediation and river upgrade at Soshanguve, Gauteng (2006);
- AGES, Invertebrate assessment for the proposed mining activities on the farm Thorncliffe 374 KT, Xstrata Eastern Mines, Mpumalanga (2007)
- AGES, Mammal and invertebrate assessment for the proposed Kalplats project, Stella, North West Province (2007)
- Exigent Engineering Consultants, Invertebrate assessment for the proposed Derdepoort X 11, Derdepoort, Gauteng (2007);
- Exigent Engineering Consultants, Invertebrate and Avifaunal scan for the proposed Cutty Sark hotel extension, Scottburgh, Kwazulu-Natal (2007);
- Strategic Environmental Focus, African Grass Owl assessment on the proposed Cradle View country estate on portion 60 of the farm Driefontein 179 IQ, Muldersdrift, Gauteng (2007);
- GEOLAB, Ecological assessment for the West Rand Gold Operations (WERGO) Witfontein tailings disposal facility, Mintails, Gauteng, RSA (2008).
- Coastal Environmental Services, Avifaunal Assessment for the proposed mining of heavy minerals at Port Durnford (Exxaro KZN-Sands), KwaZulu-Natal (2008);
- SRK & Natural Scientific Services cc, A feasibility study for the mining of coal north of the Limpopo Province. Avifaunal & invertebrate assessment, Rio Tinto Exploration, Limpopo Province, RSA (2009);
- Eskom/Baagi Environmental, An environmental management plan (avifaunal & faunal component) for the proposed Dinaledi - Spitskop 400 kV transmission line, North West Province (2010);
- Eskom/Baagi Environmental, An avifaunal impact report for the proposed 400 kV Ariadne-Venus transmission line between Estcourt and Pietermantzburg, KwaZulu-Natal (2010).
- Eskom/Baagi Environmental, An avifaunal impact assessment report for a 275 kV power line between the substations of Glockner and Kookfontein, Vanderbijlpark, Gauteng (2010);

- Groundwater Consulting Services (Pty) Ltd/Ekolnfo, An invertebrate and avifaunal specialist report for the proposed expansion of Exxaro's Glisa coal mine, Belfast, Mpumalanga (2010).
- Eskom/Baagi Environmental, An environmental management plan (avifauna component) for the proposed 400 kV Medupi-Massa transmission lines, Limpopo Province (2011);
- Eskom/Baagi Environmental, An avifaunal and fauna impact assessment report for the proposed 400 kV Arnott-Gumeni transmission line, Mpumalanga Province (2012);
- Eskom/Baagi Environmental, An environmental management plan (avifaunal component) for the proposed 400 kV Ngwedi transmission line and substation, North West Province (2012);
- Exxaro/EkoInfo, An avifaunal and invertebrate assessment (as part of a Biodiversity Assessment and action plan) for the Gravelotte MagVanTi Mining Area, Limpopo Province (2012);
- Groundwater Consulting Services (Pty) Ltd/Ekolnfo, An invertebrate and avifaunal specialist report for the proposed Paardeplaats coal mine area, Belfast, Mpumalanga (2012);
- Groundwater Consulting Services (Pty) Ltd/Ekolnfo, An invertebrate and avifaunal specialist report for the proposed Leeuwpan coal mine area, Belfast, Mpumalanga (2013);
- Eskom/Baagi Environmental, An environmental management plan (avifaunal component) for the proposed Medupi - Borutho 400 kV transmission line, Limpopo Province (2012);
- Eskom/Baagi Environmental, An environmental management plan (avifaunal component) for the proposed Gromis - Oranjemund 400 kV transmission line, Northern Cape (2013);
- Eskom/Baagi Environmental, An environmental management plan (avifaunal component) for the proposed Ariadne - Eros 400 kV transmission line, KwaZulu-Natal (2014);
- Eskom/Baagi Environmental, An avifaunal and fauna impact assessment report for the proposed 400 kV Nzhelele - Triangle Project, Musina, Limpopo Province (2014);
- Exxaro/EkoInfo, An avifauna and invertebrate investigation for the proposed Zonderwater Coal Project, Lephalale, Limpopo Province (2014);
- Eskom/Baagi Environmental, An environmental management plan (avifaunal component) for the proposed Everest - Merapi 400 kV transmission line, Free State Province (2015); and
- Malelane Safari Resort Investments, An avifaunal investigation for the proposed safari lodge near Malelane Gate, Kruger National Park (2015).
- 4 Other Assessments:
- Facilitation, project management and conduction of environmental scoping exercises, Environmental Impact Assessments, Environmental Management Plans, Feasibility Reports, for a range of projects and issues such as:
  - Housing Projects (West Rand Housing Projects) for the Gauteng Department of Housing;
  - Planning and facilitation of environmental awareness workshops (Winterveltd Workshops for the Department of Environmental Affairs and Tourism);

- Compilation and evaluation of EIA reports and Environmental Management Plans (EMPs) for both the private and public sector (e.g. Scoping Report for the relocation of oxidation ponds for the Moqhaka Local Municipality and the installation of an underground additive tank for Sasol Oil (Pty) Ltd).
- Urban Renewal Projects: Bekkersdal Urban Renewal Project and the Greater Evaton Urban Renewal Project for the Gauteng Department of Housing.
- Douglas Collieries (Inkwe Collieries), Biodiversity Assessment and database compilation of the Douglas Collieries (2005);
- Orion Group, Ecological Sensitivity Map for the proposed golf course and related facilities, Mont-Aux-Sources (2005);
- City of Joburg Property Development Company, Specialist Lepidium mossii assessment for the proposed upgrade and development of the Orlando Dam Intersection, Soweto, Gauteng (2005)
- Johannesburg Roads Agency, Alien Eradication and Rehabilitation Programme for the proposed upgrade of 14<sup>th</sup> Avenue, Randburg, Gauteng (2006);
- City of Joburg Property Development Company, Ecological Management Plan for the Orlando Dam intersection, Soweto, Gauteng (2006);
- GJ van Zyl Trust, Alien Eradication Programme for the proposed development of a resort on the Farm Witpoort 216 JS, Mpumalanga (2006);
- GJ van Zyl Trust, Fire Management Plan for the proposed development of a resort on the Farm Witpoort 216 JS, Mpumalanga (2006); and
- Khutala Collieries (Inkwe Collieries), Biodiversity Assessment and database compilation (2006)
- 5 Linear Assessments:
- Johannesburg Roads Agency, Ecological Assessment for the Proposed upgrade of 14<sup>th</sup> Avenue, Randburg, Gauteng (2004).
- Trans-Caledon Tunnel Authority (TCTA), Proposed Vaal River Eastern Subsytem Augmentation (VRESAP) pipeline from Vaal Marina to Secunda (2005);
- PBA International (in association with Bathusi EC), Ecological Scoping Report for the proposed Eskom Delta-Epsilon 765 kV Transmission lines (2007);
- Bohlweki Environmental (in association with Bathusi EC), Ecological Scoping Report for the proposed Eskom Malelane-Boulders 132 kV Distribution line (2007);
- Bohlweki Environmental (in association with Bathusi EC), Ecological Scoping Report for the proposed Eskom Marathon-Delta 132 kV Distribution line (2007);

- Strategic Environmental Focus, Avifaunal EIA Report for the proposed Eskom Hendrina-Prairie-Marathon 400 kV Transmission line, Mpumalanga (2007),
- Natural Scientific Services cc, Botanical survey for the proposed upgrade of the Transnet railwayline between Hotazel, Northern Cape and the Port of Ngqura, Eastern Cape, RSA (2008);
- Envirolution Consulting (Pty) Ltd, Ecological Report for the proposed Eskom Apollo-Lepini 400kV transmission line (2009);
- Arcus Gibb, An ecological investigation for the Turnelo 132 kV distribution line and power line near Kagiso, Gauteng (2010).
- · Ekoinfo/SANRAL, Faunal investigation for the upgrade of the N3 highway (2011); and
- Aurecon (Pty) Ltd, Baseline vegetation survey for the Mokolo Crocodile River Augmentation
   Project (MCWAP) pipeline from Mokolo Dam to Thabazimbi (2011).

#### B. Work conducted in other African countries:

- Rural Maintenance, Invertebrate study for four mini-hydroelectric generation plants, Northern Malawi, Africa (2010);
- Impacto, An avifaunal study (Phase 1) for the proposed Mpanda Nkwua Dam in the Zambezi River, Mozambique, Tete Province (2010);
- Conseil Régional des Pays de la Loire, An avifaunal investigation of the Rusizi and Ruvubu National Parks (Burundi), and the feasibility of establishing an avi-tourism network with specific emphasis on the protection of important flyways used by Palearctic birds - of - prey (2010);
- Impacto, An avifaunal study (Phase 2) for the proposed Mpanda Nkwua Dam in the Zambezi River, Mozambique, Tete Province (2011);
- Rural Maintenance, Invertebrate scan for the expansion of coal mining activities at Kayelekera, Northern Malawi, Africa (2011);
- Rural Maintenance; Invertebrate study for a mini-hydroelectric plant at the Chisanga Falls,
   Nyika National Park, Malawi (2011);
- Impacto/ERM/Enviro-Insight, Avifaunal investigation for the proposed Noondezi Coal Mine,
   Tete Province, Mozambique (2011);
- Enviro-Insight, Avifaunal investigation for the Riversdale Coal Mine complex, Tete Province, Monzambique (2011);
- Anadarko Petroleum/ERM/Enviro-Insight, Avifaunal investigation for the proposed Anadarko Mozambique Area 1 Liquefied Natural Gas plant in northern Mozambique, Cabo Delgado Province, Mozambique (2012);

- Coffey Environments/Ekolnfo, Avifaunal Investigation for the mining of iron ore by Baobab.
   Resources, Tete Province, Mozambique (a scoping-level assessment); and
- SRK/Flora, Fauna and Man Ecological Services, An avifaunal and invertebrate assessment for the establishment of a potash mine at Konkoati, Republic of the Congo (2012);
- China Union/ERM/Enviro-Insight, Avifaunal investigation for the proposed mining of iron ore in Bong County, Liberia (2012);
- SRK/Flora, Fauna and Man Ecological Services, An invertebrate assessment for the mining of iron ore by DMC Congo Mining/Exxaro at Mayoko, Republic of the Congo (2012);
- Western Cluster/ERM/Enviro-Insight, Avifaunal investigation for the proposed mining of iron ore at Bomi Hills, ,Bomi County, Liberia (2013);
- SRK/Flora, Fauna and Man Ecological Services, An invertebrate assessment for the establishment of an ecological offset for the DMC Congo Mining/Exxaro Iron Ore Mine at Mayoko, Republic of the Congo (2013);
- Western Cluster/ERM/Enviro-Insight, Avifaunal investigation for the proposed mining of iron ore at Bea Mountain, Grand Cape Mount County, Liberia (2013);
- Western Cluster/ERM/Enviro-Insight, Avifaunal investigation for the proposed mining of iron ore at Mano River, Grand Cape Mount County, Liberia (2013);
- Anadarko Petroleum/ERM/Enviro-Insight, DUAT Area Terrestrial Ecology Baseline Augmentation: Avifaunal Component with emphasis on determining important flyways for emblematic non-passerine birds where the potential risk of avian collisions to approaching aircraft is eminent during the establishment of an airstrip, Cabo Delgado Province, Mozambique (2012);
- Anadarko Petroleum/ERM/Enviro-Insight, Regional Terrestrial Baseline Report, Avifaunal Component for the Mozambique Gas development with emphasis on critical habitat as per the IFC PS6, Cabo Delgado Province, Mozambique (2012);
- WSP/Flora, Fauna and Man Ecological Services, An invertebrate assessment for the establishment of a phosphate mine, Hinda Phosphate Project, Republic of the Congo (2014);
- De Beers/Bathusi Environmental, An avifaunal monitoring report for the Letseng Diamond Mine, Lesotho (2015);
- Aureus Mine/Enviro-Insight, An avifaunal investigation for the proposed mining of gold at the New Liberty Gold Mine, Liberia (current);

#### C. Additional Experience:

 Monitoring and evaluation of the rehabilitation programme for the mining company Richards Bay Minerals (RBM) with special reference to vegetation, bird, small mammal and millipede assemblages.

- Other responsibilities include assessment of the ecological standard operating procedures (SOP) according to RBM's environmental management programme in compliance with ISO 14001 environmental standards accreditation process.
- Participated in the annual relief programme on the S.A Agulhas voyage to Subantarctic Marion Island (Prins Edward group). Took part in the research to estimate the population dynamics and demography of the alien house mouse (Mus musculus) on the island (under supervision of the University of Pretoria).
  - Participated in the preparation of a conservation management plan for a game and trout farm in conjunction with Mpumalanga Parks Board (in charge of the bird section) for the farm Nu-Scotland Bavaria.
  - Lead a successful professional bird tour (party of 12) to the Eastern Zimbabwean highlands and adjacent Mashonaland Plato (10 days).
  - Lead a successful professional bird tour (party of 9) to the Cape Peninsula, Karoo and West Coast (10 days).
  - Lead a successful professional bird tour (party of 12) to the Swaziland and Northern Zululand (10 days).
  - Lead a successful professional bird tour (party of 15) to the Namibia (10 days).
  - Lead a successful professional bird tour (party of 14) to the Eastern Drakensberg and Lesotho (10 days).

#### **Employment History:**

March 2007 - Current: of Director of Pachnoda Consulting co

2004- January 2007: Strategic Environmental Focus (Pty) - Terrestrial Ecologist

2003 - 2004: Enviro-Afrik (Pty) Ltd- Environmental Consultant

2001 - 2003: University of Pretoria - Research Assistant.

#### PUBLICATIONS:

 McEWAN, K.L., ALEXANDER, G.J., NIEMAND, L.J. & BREDIN, I.P. 2007. The effect of land transformation on diversity and abundance of reptiles. Paper presented at the 50<sup>th</sup> Anniversary Conference of the Zoological Society of Southern Africa.

- NIEMAND, L. 1997 Distribution and consumption of a rust fungus Ravenella macowaniana by micro-lepidopteran larvae across an urban gradient; spatial autocorrelation and impact assessment. Hons publication, University of Pretoria, Pretoria
- NIEMAND, L. 2001. The contribution of the bird community of the regenerating coastal dunes at Richards Bay to regional diversity. MSc Thesis, University of Pretoria, Pretoria.
- VAN AARDE, R.J., WASSENAAR, T.D., NIEMAND, L., KNOWLES, T., FERREIRA, S. 2004.
   Coastal dune forest rehabilitation: a case study on small mammal and bird assemblages in northern KwaZulu-Natai, South Africa. In: Martínez, M.L. & Psuty, N. (Eds.) Coastal sand dunes: Ecology and Restoration. Springer-Verlag, Heidelberg.
- VAN AARDE, R., DELPORT, J. & NIEMAND, L. 1999. Of frogs and men. Mechanical Technology. June; 32-33.
- VAN AARDE, R., DELPORT, J. & NIEMAND, L. 1999. Gone Frogging, Getaway. January. 80-83.

#### PRESENTATIONS & CONFERENCES:

- Co-presenter at the Wetland Training Course (30 July 3 August 2007) entitled: "Wetlandassociated fauna" University of Pretoria, Pretoria.
- Co-presenter and lecturer of the pre-conference training course (entitled "Can rehabilitation contribute towards biodiversity?") at the 3rd Annual LaRSSA (Land Rehabilitation Society of Southern Africa) Conference (8-11 September 2015), Glenburn Lodge, Muldersdrift, Gauteng.

## Curriculum Vitae of Johann Lanz - Soils and Agricultural Specialist

#### Education

•	M.Sc. (Environmental Geochemistry)	University of Cape Town	1996 - June 1997
•	B.Sc. Agriculture (Soil Science, Chemistry)	University of Stellenbosch	1992 - 1995
•	BA (English, Environmental & Geographical Science)	University of Cape Town	1989 - 1991
•	Matric Exemption	Wynberg Boy's High School	1983

#### Professional work experience

I am registered as a Professional Natural Scientist (Pri.Sci.Nat.) in the field of soil science, registration number 400268/12.

• Soil Science Consultant Self employed 2002 - present I run a soil science consulting business, servicing clients in both the environmental and agricultural industries. Typical consulting projects involve:

- Soil specialist study inputs to EIA's, SEA's and EMPR's. These have focused on impact assessments and rehabilitation on agricultural land, rehabilitation and re-vegetation of mining and industrially disturbed and contaminated soils, as well as more general aspects of soil resource management. Recent clients include: CSIR; SiVEST; Savannah Environmental; Aurecon; Subsolar; Red Cap Investments; MBB Consulting Engineers; Enviroworks; Sharples Environmental Services; Mainstream Renewable Power; Haw & Inglis; BioTherm Energy; WKN Windcurrent; Corobrik; Western Cape Provincial Department of Environmental Affairs and Development Planning; Alcan aluminium smelter (Coega); Namaqualand Restoration Initiative; AECI; Afrimat; Tiptrans.
- Soil resource evaluations and mapping for agricultural land use planning and management. Recent clients include: Zewenwacht Wine Estate, Lourensford Fruit Company; Thelema Mountain Vineyards; Delaire Wine estate; Newton-Johnson Wines; Spier Estate; Colors Fruit; Kaarsten Boerdery; Amanzi Country Estate (Port Elizabeth); Rudera Wines; Flagstone Wines; Cob Creek Estate (Jeffreys Bay); Solms Delta Wines; Dornier Wines.
- I have conducted several recent research projects focused on conservation farming, soil health and carbon sequestration.
- I have project managed the development of soil nutrition software for Farmsecure Agri Science.

### • Soil Science Consultant Agricultural Consultors 1998 - end 2001 International (Tinie du Preez)

Responsible for providing all aspects of a soil science technical consulting service directly to clients in the wine, fruit and environmental industries all over South Africa, and in Chile, South America.

• Contracting Soil Scientist De Beers Namaqualand Mines July 1997 - Jan 1998 Completed a contract to make recommendations on soil rehabilitation and re-vegetation of mined areas.

#### **Publications**

- Lanz, J. 2012. Soil health: sustaining Stellenbosch's roots. In: M Swilling, B Sebitosi & R Loots (eds). Sustainable Stellenbosch: opening dialogues. Stellenbosch: SunMedia.
- Lanz, J. 2010. Soil health indicators: physical and chemical. South African Fruit Journal, April / May 2010 issue.
- Lanz, J. 2009. Soil health constraints. South African Fruit Journal, August / September 2009 issue.
- Lanz, J. 2009. Soil carbon research. AgriProbe, Department of Agriculture.
- Lanz, J. 2005. Special Report: Soils and wine quality. Wineland Magazine.

I am a reviewing scientist for the South African Journal of Plant and Soil.

### Curriculum Vitae of Dr. Jayson Orton -Heritage Specialist



Curriculum Vitae

Jayson David John Orton

ARCHAEOLOGIST AND HERITAGE CONSULTANT

#### **Contact Details and personal information:**

Address: 6A Scarborough Road, Muizenberg, 7945

**Telephone:** (021) 788 8425 **Cell Phone:** 083 272 3225

**Email:** jayson@asha-consulting.co.za

Birth date and place: 22 June 1976, Cape Town, South Africa

Citizenship: South African 1D no: 760622 522 4085

**Driver's License:** Code 08

Marital Status: Married to Carol Orton Languages spoken: English and Afrikaans

#### **Education:**

SA College High School	Matric	1994
University of Cape Town	B.A. (Archaeology, Environmental & Geographical Science)	1997
University of Cape Town	B.A. (Honours) (Archaeology)*	1998
University of Cape Town	M.A. (Archaeology)	2004
University of Oxford	D.Phil. (Archaeology)	2013

<sup>\*</sup>Frank Schweitzer memorial book prize for an outstanding student and the degree in the First Class.

#### **Employment History:**

Spatial Archaeology Research Unit, UCT	Research assistant	Jan 1996 – Dec 1998
Department of Archaeology, UCT	Field archaeologist	Jan 1998 – Dec 1998
UCT Archaeology Contracts Office	Field archaeologist	Jan 1999 – May 2004
UCT Archaeology Contracts Office	Heritage & archaeological consultant	Jun 2004 – May 2012
School of Archaeology, University of Oxford	Undergraduate Tutor	Oct 2008 - Dec 2008
ACO Associates cc	Associate, Heritage & archaeological consultant	Jan 2011 – Dec 2013
ASHA Consulting (Pty) Ltd	Director, Heritage & archaeological consultant	Jan 2014 –

#### Memberships and affiliations:

South African Archaeological Society Council member	
Assoc. Southern African Professional Archaeologists (ASAPA) member	2006 -
ASAPA Cultural Resources Management Section member	2007 -
UCT Department of Archaeology Research Associate	2013 -
Heritage Western Cape APM Committee member	2013 -

UNISA Department of Archaeology and Anthropology Research Fellow 2014 – Fish Hoek Valley Historical Association 2014 –

#### **Professional Accreditation:**

ASAPA membership number: 233, CRM Section member

Principal Investigator: Coastal shell middens (awarded 2007)

Stone Age archaeology (awarded 2007)

Grave relocation (awarded 2014)

Field Director: Rock art (awarded 2007)

Colonial period archaeology (awarded 2007)

#### Fieldwork and project experience:

Extensive fieldwork as both Field Director and Principle Investigator throughout the Western and Northern Cape, and also in the western parts of the Free State and Eastern Cape as follows:

#### Phase 1 surveys and impact assessments:

- Project types
  - Notification of Intent to Develop applications (for Heritage Western Cape)
  - Heritage Impact Assessments (largely in the Environmental Impact Assessment or Basic Assessment context under NEMA and Section 38(8) of the NHRA, but also self-standing assessments under Section 38(1) of the NHRA)
  - o Archaeological specialist studies
  - o Phase 1 test excavations in historical and prehistoric sites
  - Archaeological research projects
- Development types
  - o Mining and borrow pits
  - o Roads (new and upgrades)
  - o Residential, commercial and industrial development
  - Dams and pipe lines
  - o Power lines and substations
  - Renewable energy facilities (wind energy, solar energy and hydro-electric facilities)

#### Phase 2 mitigation and research excavations:

- > ESA open sites
  - o Duinefontein, Gouda
- MSA rock shelters
  - Fish Hoek, Yzerfontein, Cederberg, Namaqualand
- MSA open sites
  - o Swartland, Bushmanland, Namaqualand
- LSA rock shelters
  - o Cederberg, Namaqualand, Bushmanland
- LSA open sites (inland)
  - o Swartland, Franschhoek, Namaqualand, Bushmanland
- LSA coastal shell middens
  - Melkbosstrand, Yzerfontein, Saldanha Bay, Paternoster, Dwarskersbos, Infanta, Knysna, Namaqualand
- LSA burials
  - o Melkbosstrand, Saldanha Bay, Namaqualand, Knysna
- Historical sites
  - o Franschhoek (farmstead and well), Waterfront (fort, dump and well), Noordhoek (cottage), variety of small excavations in central Cape Town and surrounding suburbs
- Historic burial grounds
  - o Green Point (Prestwich Street), V&A Waterfront (Marina Residential), Paarl

### Curriculum Vitae of John Almond - Palaeontological Specialist

JOHN E. ALMOND Ph.D. (Cantab)

Natura Viva cc, PO Box 12410 Mill Street, Cape Town 8010, RSA tel: (021) 462 3622 e-mail: naturaviva@universe.co.za

- Honours Degree in Natural Sciences (Zoology), University of Cambridge, UK (1980).
- PhD in Earth Sciences (Palaeontology), University of Cambridge, UK (1986).
- Post-doctoral Research Fellowships at University of Cambridge, UK and Tübingen University, Germany (Humboldt Research Fellow).
- Visiting Scientist at various research institutions in Europe, North America, South Africa and fieldwork experience in all these areas, as well as in North Africa.
- Scientific Officer, Council for Geoscience, RSA (1990-1998) palaeontological research and fieldwork especially in western RSA and Namibia.
- Managing Member, Natura Viva cc a Cape Town-based company specialising in broad-based natural history education, tourism and research especially in the Arid West of Southern Africa (2000 onwards). Natura Viva cc produces technical reports on palaeontology, geology, botany and other aspects of natural history for public and private nature reserves.
- Current palaeontological research focuses on fossil record of the Precambrian / Cambrian boundary (especially trace fossils), and the Cape Supergroup of South Africa.
- Registered Field Guide for South Africa and Namibia
- Member of the A-team, Botanical Society of SA (Kirstenbosch Branch) involved in teaching and training leaders for botanical excursions. Invited leader of annual Botanical Society excursions (Kirstenbosch Branch) to Little Karoo, Cederberg, Namaqualand and other areas since 2005.
- Professional training of Western and Eastern Cape Field Guides (FGASA Level 1 & 2, in conjunction with *The Gloriosa Nature Company*) and of Tourist Guides in various aspects of natural history.
- Involved in extra-mural teaching in natural history since the early 1980s. Extensive experience in public lecturing, running intensive courses and leading field excursions for professional academics as well as enthusiastic amateurs (e.g. Geological Society / Archaeological Society / Friends of the SA Museum / Cape Natural History Club / Mineral Club / Botanical Society of South Africa / SA Museum Summer & Winter School Programmes / UCT Summer School)
- Development of palaeontological teaching materials (textbooks, teachers guides, palaeontological displays) and teacher training for the new school science curriculum (GET, FET).
- Former long-standing member of Archaeology, Palaeontology and Meteorites Committee for Heritage Western Cape (HWC). Advisor on palaeontological conservation and management issues for the Palaeontological Society of South Africa (PSSA), HWC and SAHRA

(including APM Permit Committee at HWC). Compilation of technical reports on provincial palaeontological heritage of Western, Northern and Eastern Cape for SAHRA and HWC. Accredited member of PSSA and APHP (Association of Professional Heritage Practitioners, Western Cape).

- Palaeontological impact assessments for developments in the Western Cape, Eastern Cape, Northern Cape, Free State, Northwest Province, Mpumulanga, Gauteng.
- Several hundred palaeontological heritage desktop studies and field assessments completed over the past few years. Examples of recent larger projects include:
  - (1) Several major alternative energy projects (wind / solar) in the Prieska, De Aar and Cookhouse / Middleton areas (N. Cape, E. Cape)
  - (2) Palaeontological heritage survey of the Coega IDZ (E. Cape)
  - (3) On-going survey of borrow pits in the Western Cape
  - (4) Palaeontological heritage assessments for the Transnet 16 mtpa railway development, Hotazel to Coega IDZ (N. Cape, E. Cape)
  - (5) Eskom transmission line developments such as Gamma-Omega and Gamma Perseus projects (N. Cape, W. Cape, Free State)
  - (6) Mining exploration studies on the Great Karoo
  - (7) National Wind and Solar PV Strategic Environmental Assessment Specialist Report Heritage (palaeontological component)
- Reviews of fossil heritage related to new 1: 250 000 geological maps published by the Council for Geoscience (Geological Survey of SA) e.g. Clanwilliam, Loeriesfontein, Alexander Bay sheets.

## Curriculum Vitae of Rudolph du Toit - Socio-Economic Impact Assessment

#### Personal information

Name: Rudolph du Toit

Firm: Council for Scientific and Industrial Research (CSIR)

**Position in Firm:** Senior Environmental Planner

Profession: Environmental Planning, Assessment & Management

Date of Birth: 23 May 1978

**Languages:** English and Afrikaans

Marital status: Married

Email: rdutoit@csir.co.za

**Telephone number:** 021 888 2538 / 076 902 6479

#### **Tertiary Education**

#### Undergraduate

Bachelor of Arts (BA) Environmental and Development Studies Department of Geography and Environmental Studies University of Stellenbosch (US), 2003-2005

Bachelor of Law (LLB) (in progress) College of Law University of South Africa (UNISA), 2015

#### **Honours**

Bachelor of Philosophy (B.Phil.) Sustainable Development Planning and Management School for Public Leadership University of Stellenbosch (US), 2006

### Masters

Master of Philosophy (M.Phil.) Development Planning School of Public Leadership University of Stellenbosch (US), 2007-2009

#### **Employment Experience**

1. Organisation: Independent contractor for the CapeNature Working for Water Project

Position: Team leader: Natural resource management (Alien clearing)

Period: 1998 to 2001

2. Organisation: Magnetic South

Position: Outdoor pursuit management

Period: 2003 to 2007 (part-time during studies)

3. Organisation: Strategic Environmental Focus (SEF) (Pty) Ltd.

Position: Sustainability coordinator: Environmental planning & reporting

Period: 2008 to 2010

4. Organisation: Council for Scientific and Industrial Research (CSIR)

Position: Environmental Planner Period: 2010 to present

5. Organisation: University of Stellenbosch

Position: Guest lecturer: Development Planning and Environmental Analysis module

Period: 2013 to present

6. Organisation: University of Stellenbosch

Position: External course moderator: Development Planning (School for Public Leadership)

Period: 2015

#### **Professional Affiliations**

Registered member of the South African Institute for Impact Assessment (Registration Number 2779)

#### **Research Publications**

• Du Toit, R. (2009). *Developing a Scorecard for Sustainable Transport: A Cape Town Application.* Stellenbosch University Press

Michelle Audouin, Mike Burns, Alex Weaver, David le Maitre, Patrick O'Farrell, Rudolph du Toit, Jeanne Nel. (2015). An Introduction to Sustainability Science and its Links to Sustainability Assessment. In Morrison-Saunders, A. and Pope, J., Eds. Handbook of Sustainability Assessment. Edward Elgar Publishing, 321 -349. ISBN 978-1-78347-136-2

#### **Conference Presentations & Papers**

- Du Toit, R. (2012). *Wind Energy and Public Participation: A one-sided debate?* Proceedings of the 17th Annual Conference of the International Association for Impact Assessment South Africa: "Urban Evolution", 27 29 August, 2012.
- Du Toit, R. & Van der Westhuizen, C. (2013). Strategic Environmental Assessment (SEA) as a means of building the Green Economy in South Africa: The development of a national wind and solar energy rollout plan. Proceedings of the OECD DAC SEA Task Team Workshop on SEA & Green Economy, Lusaka (Zambia), 17-18 January 2013.
- Contributing author to: Dalal-Clayton, B. (2013) The Role of Strategic Environmental Assessment in Promoting a Green Economy: Background document for the OECD DAC SEA task Team workshop on SEA & Green Economy, Lusaka, 17-18 January 2013. IIED, London
- Burns, M., Du Toit, R. & Schreiner, G. (2013). Graphical Causal Loop modelling of socio-ecological systems
  to identify & evaluate key impact "strings". Proceedings of the 18th Annual Conference of
  the International Association for Impact Assessment South Africa: 16 18 September, 2013.

#### **Key courses**

- Advanced Facilitation & Experiential Learning: Team Building Institute (Pty) Ltd (2001)
- Clean Development Mechanism (CDM) Project Development Training: Danish Energy Management (Pty) Ltd (2008)
- Project Management Principles & Practice: University of Pretoria (2011)

- Integrating Sustainability with Environmental Assessment in South Africa (Presented by A. Morrison Saunders & J. Pope): North-West University (2012)
- Sharpening the Tool: New techniques and methods in Environmental Impact Assessment: Sustainable Environmental Solutions (Pty) Ltd (2015)
- Foundation Level Course in Science Communication and Working with the Media: Proof Communication & Jive Media Africa (2014)
- Effective Skills for Challenging Meetings & Engagements: Conflict Dynamics (2015)

### **Projects and Environmental Assessment Reports**

The following table presents an abridged list of projects that I have been involved in, indicating my role in each project:

_			
Pro	pject	Role	Date
1.	Basic Assessment: Bottelary Road Upgrade: Van der Merwe Venter Twenty Group and Silmore Trust	Environmental Control Officer	July 2009
2.	MTN Remote Hub: Umbutho Civil & Electrical	Environmental Control Officer	July 2009
3.	Basic Assessment: Hermanus (Overberg Municipality) substation upgrade & underground cable	Junior Environmental Manager and co-author	August 2009
4.	Basic Assessment for the InnoWind Swellendam wind energy project: Single test turbine construction	Project Manager and Lead Author	January 2010
5.	Basic Assessment for the InnoWind Heidelberg wind energy project: Single test turbine construction	Project Manager and Lead Author	January 2010
6.	Basic Assessment for the InnoWind Albertinia wind energy project: Single test turbine construction	Project Manager and Lead Author	January 2010
7.	Basic Assessment for the InnoWind Mossel Bay wind energy project: Single test turbine construction	Project Manager and Lead Author	January 2010
8.	EIA for InnoWind Swellendam wind energy project, Western Cape	Project Manager and Lead Author	July 2010
9.	EIA for InnoWind Heidelberg wind energy project, Western Cape	Project Manager and Lead Author	July 2010

Environmental Impact Assessment (EIA) Experience			
Project	Role	Date	
EIA for InnoWind Albertinia wind energy project, Western Cape	Project Manager and Lead Author	July 2010	
11. EIA for InnoWind Mossel Bay wind energy project, Western Cape	Project Manager and Lead Author	July 2010	
12. EIA for the Electrawinds (NL) Coega IDZ Wind Energy Project: Proposed construction of 75 MW installed capacity	Project Manager	January 2010	
13. EIA for Glencore Exploration (UK): On- shore and off-shore exploration drilling operation; Matanda Block, Cameroon	Project Manager	November 2010	
14. EIA for Noble Energy (Cameroon): Off- shore exploration drilling, Yoyo Concession and Tilapia Exploration Block, Cameroon	Management, integration and drafting of water quality section of the EIA report.	April 2011	
15. EIA for the Vleesbaai Independent Power Producer (VIPP) Wind Energy Facility near Vleesbaai	Project Manager and Lead Author	August 2012 (on-going)	
16. Windlab Developments South Africa (Pty) Ltd Ishwati Emoyeni 140 MW Wind Energy EIA near Murrysburg in the Western Cape	Project Manager	September 2014	
17. EIA for the City of Cape Town 1500 MW Gas-to-power facility, Atlantis, Western Cape	Project Leader	July 2015 (on-going)	

Strategic Environmental Assessment (SEA) Experience			
Project	Role	Date	
18. Strategic Environmental Assessment (SEA) for the Port of Saldanha: Transnet National Ports Authority (TNPA)	Project Manager and Lead Author	July 2012	
19. City of Cape Town Far South Strategic Environmental Assessment (SEA)	Project Manager and Lead Author	June 2014	

Specialist Study Experience		
Project	Role	Date
20. Mulilo Renewable Project	Conducting the Social Impact	September 2014

Spe	Specialist Study Experience			
Pro	ject	Role	Date	
	Developments (Pty) Ltd Gemsbok Solar PV1 75MW Solar Photovoltaic EIA in the Northern Cape	Assessment (SIA) as part of the suite of EIA specialist studies		
21.	Mulilo Renewable Project Developments (Pty) Ltd Gemsbok Solar PV2 75MW Solar Photovoltaic EIA in the Northern Cape	Conducting the Social Impact Assessment (SIA) as part of the suite of EIA specialist studies	September 2014	
22.	Mulilo Renewable Project Developments (Pty) Ltd Boven Solar PV1 75MW Solar Photovoltaic EIA in the Northern Cape	Conducting the Social Impact Assessment (SIA) as part of the suite of EIA specialist studies	September 2014	
23.	Scatec Solar 330 (Pty) Ltd Kenhardt PV 1 75MW Solar Photovoltaic EIA in the Northern Cape	Conducting the Social Impact Assessment (SIA) as part of the suite of EIA specialist studies	August 2015	
24.	Scatec Solar 350 (Pty) Ltd Kenhardt PV 2 75MW Solar Photovoltaic EIA in the Northern Cape	Conducting the Social Impact Assessment (SIA) as part of the suite of EIA specialist studies	August 2015	
25.	Scatec Solar 370 (Pty) Ltd Kenhardt PV 3 75MW Solar Photovoltaic EIA in the Northern Cape	Conducting the Social Impact Assessment (SIA) as part of the suite of EIA specialist studies	August 2015	
26.	Scatec Solar 163 (Pty) Ltd Kenhardt PV 1 – Transmission Line Basic Assessment to service the proposed Kenhardt PV 1 75MW Solar Facility in the Northern Cape	Conducting the Social Impact Assessment (SIA) as part of the suite of BA specialist studies	August 2015	
27.	Scatec Solar 163 (Pty) Ltd Kenhardt PV 1 – Transmission Line Basic Assessment to service the proposed Kenhardt PV 1 75MW Solar Facility in the Northern Cape	Conducting the Social Impact Assessment (SIA) as part of the suite of BA specialist studies	August 2015	
28.	Scatec Solar 163 (Pty) Ltd Kenhardt PV 1 – Transmission Line Basic Assessment to service the proposed Kenhardt PV 1 75MW Solar Facility in the Northern Cape	Conducting the Social Impact Assessment (SIA) as part of the suite of BA specialist studies	August 2015	

Environmental Management & Sustainability Planning Experience			
Project	Role	Date	
29. Working for Water (CapeNature) alien clearing project: Uniondale Poort	Team Leader: natural resource management	January 1998	
30. Working for Water (CapeNature) alien clearing project: Avontuur area	Team Leader: natural resource management	March 1999	

Project	Role	Date
31. Working for Water (CapeNature) alien clearing project: Prince Alfred Pass area	Team Leader: natural resource management	January 2000
32. Working for Water (CapeNature) alien clearing project: Langkloof farms	Team Leader: natural resource management	February 2001
33. Qualitative Environmental Impact Analysis related to Major Incedent: PetroSA Mossel Bay GTL refinery	Project Manager and Lead Author	October 2010
34. Maseve Platinum Sustainability Assessment, Rustenburg	Project Manager	August 2011
35. Notice of Impacts Associated with Exploration Drilling in BHP Billiton Gabon's Licensed Areas of Okondja, Akieni & Lastoursville (Gabon)	Project Manager	June 2011
36. PetroSA LNG Importation Pipeline Screening Study (Saldanha Bay to Mosselbay)	Responsible for investigating and assessing planning impacts	March 2014
37. Department of Environmental Affairs (DEA) National Sustainable Development Strategy and Action Plan (NSSD) 1: Monitoring & Evaluation Report	Project Manager and Lead Author	November 2013 (ongoing)
38. Apollo Brick (Pty) Ltd energy efficiency and fuel switching CDM project	Investigation of possible conversation of the energy efficiency project to an accredited CDM project	January 2008
<ol> <li>Mxit Lifestyle (Pty) Ltd carbon footprint audit</li> </ol>		January 2009
40. EIA for Addax Petroleum: Off-shore exploration/appraisal drilling; Ngosso Permit, Cameroon	Research team: collection of benthic macrofauna samples and bio-indicators for water quality analysis	August 2010
41. EIA for Glencore Exploration (UK): Off- shore exploration drilling, Bolongo Block, Cameroon	Research team: collection of benthic macrofauna samples and bio-indicators for water quality analysis	February 2011
42. Integrated State of the Environment Report For Namibia (Phase 1)	Project Leader and Lead Author	June 2015
43. Guest lecturer: Stellenbosch University's Sustainability Institute (School of Public Leadership)	Guest lecturer: Theory & Practice of Sustainability Assessment	July 2013

## Curriculum Vitae of Surina Laurie - Traffic Impact Statement

Name of firm CSIR

Name of staff Surina Laurie

**Profession** Environmental Assessment Practitioner

Position in firm Project Manager

Years' experience 4 years

Nationality South African

#### **Biographical sketch**

Surina has 4 years' experience as an Environmental Assessment Practitioner (EAP). She completed both her BSc in Conservation Ecology and MPhil in Environmental Management (part-time) at the University of Stellenbosch. With her honours project, she worked closely with the Endangered Wildlife Trust Riverine Rabbit Working Group and was responsible for determining the conservation opportunity for the Riverine Rabbit in the Karoo. With this project, she gained valuable experience in how to interact and manage stakeholders in such a way that a project's objectives and conservation goals are met without the stakeholders not being included in the decision-making process. The management of stakeholders and the ability to incorporate their needs into the objectives of a project is seen as an essential component of an Environmental Impact Assessment (EIA) process.

With her Masters' thesis she researched and addressed why there is a need to undertake a Cost Benefit Analysis (CBA) as part of any EIA. The need for a CBA stems from the fact that losing environmental services will have an economic impact on a regional/national level in the long term but this is usually not considered during an EIA process. A CBA will look at both the economic benefits (profit) from a project and the economic losses because of loss of ecosystem services or rehabilitation costs. By including a CBA in an EIA, both the economic and environmental financial implications (not just the environmental significance of an impact) of a project will be considered by the decision making authority prior to the issuing of Environmental Authorisations or permits.

She has experience in undertaking Basic Assessments and Scoping and Environmental Impact Assessments for various sectors, including renewable energy, industry and tourism. She also has experience in undertaking environmental audits, due diligence assessments and the compilation of Environmental Management Programmes.

Registered Professional Natural Scientist (Pr. Sci. Nat.) in Environmental Science (Reg. No: 400033/15) with the South African Council of Natural Scientific Professions.

### **Education**

2015 (current)	Certificate in Environmental Economics, University of London (SOAS)
2013	Project Management Course, University of Cape Town
	Graduate School of Business
2011-2012	MPhil Environmental Management, University of
(Part-time)	Stellenbosch
2007-2010	BSc Conservation Ecology, University of Stellenbosch

<b>Employment Record</b>	Feb 2014 to present	CSIR, Project Manager, EAP
	Sept 2011 to Jan 2014	WSP Environmental (Pty) Ltd, Environmental Consultant
	Nov 2010 to Aug 2011	EnviroAfrica, Junior Environmental Consultant

### **Experience record** Abridged experi

Abridged experience in Environmental Impact and Basic Assessment processes:

Date	Project Description	Role	Client
2014 - present	Integrated Scoping and EIA process for the construction of three Photovoltaic (PV) or Concentrated Photovoltaic (CPV) Solar Facilities with a generating capacity of 75 MW each on the farms remaining extent of Portion 3 of the Farm Gemsbok Bult 120 and Boven Rugzeer remaining extent of 169, located 30 km north-east of Kenhardt. Two of the projects will be located on the farm remaining extent of Portion 3 of the Farm Gemsbok Bult 120 and one on Boven Rugzeer remaining extent 169.	Project Manager	Mulilo Renewable Project Development (Pty) Ltd
2014 - present	Integrated Scoping and EIA process for the development of twelve (12) Photovoltaic (PV) or Concentrated Photovoltaic (CPV) Solar Facilities with a generating capacity of 75 MW/100MW each, near Dealesville, Free State.	Project Manager	South Africa Mainstream Renewable Power Developments (Pty) Ltd
2013-2014	Basic Assessment for the construction of three additional petroleum storage tanks at the Cape Town Harbour.	Environmental Consultant	FFS Refiners (Pty) Ltd
2013-2014	Scoping and EIA for the construction of a Sewage Package Plant on Robben Island.	Environmental Consultant	Department of Public Works
2013	Development of an EMPr for the undertaking of maintenance work on the Stilbaai Fishing Harbour's Slipway located in Stilbaai, Western Cape, South Africa. In order to be compliant to the requirements of the National Environmental Management Act (Act 107 of 1998) and Environmental Impact Assessment (EIA) Regulations, a Maintenance Management Plan (MMP) needed to be developed to manage the environmental impacts associated with maintenance work that is scheduled to be undertaken on the Stilbaai Fishing Harbour's Slipway as well as any future on-going maintenance requirements.	Environmental Consultant	Department of Public Works
2012-2014	Waste Management License for the proposed storage of Ferrous HMS 1+2, Shredded Ferrous and Bales located at the K/L Berth at Duncan Road, Port of Cape Town	Environmental Consultant	The New Reclamation Group (Pty) Ltd
2012-2014	Scoping and EIA for the construction a biodiesel refinery in the Coega Industrial Development Zone (IDZ). The proposed project entails the import of used vegetable oil from the USA and converting it through various processes to biodiesel which will be exported to Europe. The proposed project requires an Air Emissions License, a Waste Management License and Environmental Authorisation.	Environmental Consultant	FIS Biofuels (Ltd)
2013-2013	Basic Assessment for the proposed redevelopment of Berths B, C and D in Duncan Dock at the Port of Cape Town.	Assistant Environmental Consultant	FPT (Pty) Ltd
2011- 2012	Development of an EMPr for the Eerstelingsfontein Opencast Project (EOP).	Assistant Environmental	Exxaro Resources Limited

Date	Project Description	Role	Client
		Consultant	
2011-2014	Basic Assessment for the proposed reinstatement of	Assistant	Department of Public
	the Blue Stone Quarry located on Robben Island.	Environmental	Works
		Consultant	
2011	Scoping and EIA for the proposed upgrade to the	Assistant	Cape Agulhas
	Struisbaai WWTW.	Environmental	Municipality
		Consultant	
2011	Basic Assessment for the construction of a cellular	Environmental	MTN (Pty) Ltd
	mast.	Consultant	
2010-2011	Basic Assessment for the construction of a Heritage	Environmental	Waenhuiskrans Arniston
	Centre.	Consultant	Community
			Development Trust
2010-2011	Scoping and EIA for the rezoning of the area from	Environmental	Private developer
	open space to residential, the construction of six	Consultant	
	residential units and the upgrading of the existing		
	Waste Water Treatment Plant.		

Abridged experience in undertaking the role of an Environmental Control Officer and compliance auditing:

Date	Project Description	Role	Client
2013- 2014	The proposed extension project involved the installation of five new above ground storage tanks. The two largest tanks have a tank capacity of 2,500m <sup>3</sup> each and a height of 18m. The three smaller tanks have a tank capacity of 2,300m <sup>3</sup> , 1,350m <sup>3</sup> and 212m <sup>3</sup> and heights of 18m, 10.8m and 10.8m respectively, giving an additional 8862m <sup>3</sup> storage capacity to the current FFS operation	ECO	FFS Refiners (Pty) Ltd
2012- 2014	Compliance auditing of drum re-conditioners for the used oil industry in the Western Cape.	Assistant Environmental Consultant	The Rose Foundation
2012	Environmental legal compliance auditing of various Much Asphalt sites. The audit entailed review of national, provincial legislation and municipal by-laws and a site visit in order to determine whether the sites were compliant to the relevant environmental legislation.	Environmental Consultant	Much Asphalt
2011- 2013	Construction of a new De-Ashing Plant for FFS Vissershok Construction of a De-Ashing Plant. This project involved the monthly independent audits and reports of all the environmental and social aspects of the construction phase the new De-Ashing Plant at Vissershok.	ECO	FFS Refiners (Pty) Ltd
2011- 2012	Construction of the new 1200m <sup>3</sup> Tank at FFS Cape Town Harbour Site. This project involved two site audits per month to ensure compliance to the Environmental Authorisation and Environmental Management Plan for the proposed project.	ECO	FFS Refiners (Pty) Ltd

Language capabilities		Speaking	Reading	Writing
	Afrikaans	Excellent	Excellent	Excellent
	English	Excellent	Excellent	Excellent



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (GEMSBOK SOLAR PV6) on Portion 8 of Gemsbok Bult Farm 120, north-east of Kenhardt, Northern Cape Province

## EIA REPORT

# APPENDIX B:

Declarations of Interest and Independence of the Environmental Assessment Practitioner and Specialists

## CONTENTS

SPECIALIST DECLARATION – PAUL LOCHNER (EAP)	2
SPECIALIST DECLARATION – HENRY HOLLAND	4
SPECIALIST DECLARATION – INA VENTER	1
SPECIALIST DECLARATION – LUKAS NIEMAND	1
SPECIALIST DECLARATION – JOHANN LANZ	1
SPECIALIST DECLARATION – JAYSON DAVID JOHN ORTON	1
SPECIALIST DECLARATION – JOHN ALMOND	1
SPECIALIST DECLARATION – RUDOLPH DU TOIT	1
SPECIALIST DECLARATION – SURINA LAURIE	1

## **SPECIALIST DECLARATION - PAUL LOCHNER (EAP)**

environmental affairs  Department: Environmental Affairs REPUBLIC OF SOUTH AFRICA

#### **DETAILS OF EAP AND DECLARATION OF INTEREST**

	(For official use only)
File Reference Number:	
NEAS Reference Number:	DEA/EIA
Date Received:	

Application for integrated environmental authorisation and waste management licence in terms of the-

- (1) National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014; and
- (2) National Environmental Management Act: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 921, 2013

#### **PROJECT TITLE:**

## Scoping and EIA for the proposed development of a Solar PV Facility of 75 MW near Kenhardt in the Northern Cape

Environmental Assessment	Paul Lochner		
Practitioner (EAP):			
Contact person:	Paul Lochner		
Postal address:	PO Box 320 Stellenbosch		
Postal code:	7599	Cell:	084 442 3646
Telephone:	021-888 2661/2486	Fax:	021 888 2693
E-mail:	plochner@csir.co.za		
Professional affiliation(s) (if any)	IAIA-SA		
	Certified EAP –SA (since Jul	y 2003)	

Project Consultant:	Mulilo Renewable Project Develo	pments	
Contact person:	Warren Morse		
Postal address:	Suite 303c, Execujet Business Centre, Tower Road, Cape Town International Airport , Cape Town SA		
Postal code:	7525	Cell:	083 760 9586
Telephone: E-mail:	021 934 5268 warren@mulilo.com	Fax:	021 935 0505

ı	Paul Lochner	. declare that:
٠,	<u>r dar Eochirci</u>	, acciai c tilat.

- I act as the independent environmental practitioner in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process;
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not;
- I will provide the competent authority any information that is provided by the EAP to interested and affected parties and any responses; by the EAP to comments or inputs made by interested or affected parties;
- I affirm that a level of agreement between the EAP and interested and affected parties on the plan of study for undertaking the environmental impact assessment is reflected in the issues raised by the I&APs prior to the release and during the 30-day review of the Scoping Report.
- the information provided in this scoping report has been sourced from relevant literature, legislation, previous studies and specialist input and is therefore believed to be correct;
- I will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signed at Stellenbosch on the 26th of November 2015

**Environmental Assessment Practitioner** 

Hocher

### SPECIALIST DECLARATION - HENRY HOLLAND

I, Henry Holland, as the appointed independent specialist, in terms of the 2014 EIA Regulations, hereby declare that I:

- I act as the independent specialist in this application;
- I perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- regard the information contained in this report as it relates to my specialist input/study to be true and correct, and do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2014 and any specific environmental management Act;
- I declare that there are no circumstances that may compromise my objectivity in performing such work:
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I have no vested interest in the proposed activity proceeding;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I have ensured that information containing all relevant facts in respect of the specialist input/study was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments on the specialist input/study;
- I have ensured that the comments of all interested and affected parties on the specialist input/study were considered, recorded and submitted to the competent authority in respect of the application;
- all the particulars furnished by me in this specialist input/study are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the specialist:
Name of Specialist: <u>Henry Holland</u>
Date: 15 February 2016

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	ent nental Affairs LIC OF SOUTH AFRIC	A	
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DETAILS OF SPECIA	ALIST AND DECLARAT	TION OF INTEREST	
		(For official use only)	
ile Reference Numbe		12/12/20/ or 12/9/11/	
NEAS Reference Nun	nber:	DEA/EIA	
Date Received:			
Government (	Notice 921, 2013		2008 (Act No. 59 of 2008) and
PROJECT TITLE Scoping and Enviro Photovoltaic Facility	nmental Impact Asset	the remaining extent	sed Development of a 75 MW So of Onder Rugzeer Farm 168, no
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PROJECT TITLE Scoping and Enviro Photovoltaic Facility east of Kenhardt, No Specialist	nmental Impact Asse: (KBNHARDT PV 1) or orthern Cape Province  Visual Specialist	the remaining extent	sed Development of a 75 MW S
PROJECT TITLE Scoping and Enviro Photovoltaic Facility east of Kenhardt, No Specialst Contact person:	nmental Impact Asse (KENHARDT PV 1) or orthern Cape Province Visual Specialist Henry Holland	the remaining extent	sed Development of a 75 MW S
PROJECT TITLE Scoping and Enviro Photovoltaic Facility east of Kenhardt, No Specialist: Contact person: Postal address:	nmental Impact Asse: (KBNHARDT PV 1) or orthern Cape Province  Visual Specialist	the remaining extent	sed Development of a 75 MW S tof Onder Rugzeer Farm 168, no
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PROJECT TITLE Scoping and Enviro Photovoltaic Facility east of Kenhardt, No Specialist: Contact person: Postal address: Postal didress: Postal code: Felephone: E-mail: Professional	omental Impact Asse (KENHARDT PV 1) or orthern Cape Province Visual Specialist Henry Holland 8 Cathcart Street 6139 046 6228735	Cell:	sed Development of a 75 MW S tof Onder Rugzeer Farm 168, no
PROJECT TITLE Scoping and Enviro Photovoltaic Facility east of Kenhardt, No Specialist Contact person: Postal address: Postal code: Telephone: E-mail: Professional Iffiliation(s) (if any)	visual Specialist Henry Holland 8 Cafficart Street 6139 046 6228735 hholland@gmail.com	Cell:	sed Development of a 75 MW Si tof Onder Rugzeer Farm 168, no
PROJECT TITLE Scoping and Enviro Photovoltaic Facility east of Kenhardt, No Specialist Contact person: Postal address: Postal address: Postal code: Felephone: E-mail: Professional affiliation(s) (if any) Project Consultant	visual Specialist Henry Holland 8 Cafficart Street 6139 046 6228735 hholland@gmail.com	Cell:	sed Development of a 75 MW Si tof Onder Rugzeer Farm 168, no
PROJECT TITLE Scoping and Enviro Photovoltalc Facility east of Kenhardt, No  Specialst Contact person: Postal address: Postal code: Telephone: E-mail: Professional affiliation(s) (if any) Project Consultant Contact person:	nmental Impact Asser (KBNHARDT PV 1) or orthem Cape Province  Visual Specialist Henry Holland 8 Cathcart Street 6139 046 6228735 hholland@gmail.co  Council for Scientifi	Cell: Fax:	sed Development of a 75 MW Si tof Onder Rugzeer Farm 168, no
PROJECT TITLE Scoping and Enviro Photovoltaic Facility	nmental Impact Asser (KENHARDT PV 1) or rithem Cape Province  Visual Specialist Henry Holland 8 Cathcarl Street 6139 046 8228735 hholland@gmail.co	Ceff: Fax:  c and Industrial Resear	sed Development of a 75 MW Si tof Onder Rugzeer Farm 168, no

I. Henry Ho	land	, declare that –
General declar	ation:	
	independent special	
	rm the work relating to as that are not favoura	the application in an objective manner, even if this results in views tible to the applicant.
I declare t	hat there are no circu	instances that may compromise my objectivity in performing such
I have exp		e specialist report relevant to this application, including knowledge quidelines that have relevance to the proposed activity,
I will comp	ly with the Act, Regula	ations and all other applicable legislation;
		, conflicting interests in the undertaking of the activity;
possession with respe	n that reasonably has ct to the application t	pplicant and the competent authority all material information in m or may have the potential of influencing - any decision to be taken by the competent authority; and - the objectivity of any report, play myself for submission to the competent authority.
		e in this form are true and correct and
	at a false declaration IF of the Act.	is an offence in terms of regulation 48 and is punishable in terms of
7.73	1	
H. H.M	\/.	
Signature of the	e specialist:	
Name of comp	any (if applicable):	
08 February 20	10	
us repruary 20	10	

## **SPECIALIST DECLARATION - INA VENTER**

I, Ina Venter, as the appointed independent specialist, in terms of the 2014 EIA Regulations, hereby declare that I:

- I act as the independent specialist in this application;
- I perform the work relating to the application in an objective manner, even if this results in views and findings that are not favorable to the applicant;
- regard the information contained in this report as it relates to my specialist input/study to be true and correct, and do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2014 and any specific environmental management Act;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I have no vested interest in the proposed activity proceeding;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I have ensured that information containing all relevant facts in respect of the specialist input/study was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments on the specialist input/study;
- I have ensured that the comments of all interested and affected parties on the specialist input/study were considered, recorded and submitted to the competent authority in respect of the application;
- all the particulars furnished by me in this specialist input/study are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the specialist:	the
Name of Specialist: <u>Ina Venter</u>	
Date: 15 January 2016	

## **SPECIALIST DECLARATION - LUKAS NIEMAND**

I, Lukas Jurie Niemand, as the appointed independent specialist, in terms of the 2014 EIA Regulations, hereby declare that I:

- I act as the independent specialist in this application;
- I perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- regard the information contained in this report as it relates to my specialist input/study to be true and correct, and do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2014 and any specific environmental management Act;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I have no vested interest in the proposed activity proceeding;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I have ensured that information containing all relevant facts in respect of the specialist input/study was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments on the specialist input/study;
- I have ensured that the comments of all interested and affected parties on the specialist input/study were considered, recorded and submitted to the competent authority in respect of the application;
- all the particulars furnished by me in this specialist input/study are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

Name of Specialist: Lukas Niemand

Date: 01 February 2016

## SPECIALIST DECLARATION - JOHANN LANZ

I, Johann Lanz, as the appointed independent specialist, in terms of the 2014 EIA Regulations, hereby declare that I:

- I act as the independent specialist in this application;
- I perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- regard the information contained in this report as it relates to my specialist input/study to be true and correct, and do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2014 and any specific environmental management Act;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I have no vested interest in the proposed activity proceeding;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I have ensured that information containing all relevant facts in respect of the specialist input/study was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments on the specialist input/study;
- I have ensured that the comments of all interested and affected parties on the specialist input/study were considered, recorded and submitted to the competent authority in respect of the application;
- all the particulars furnished by me in this specialist input/study are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the specialist:	Beary
Name of specialist:	Johann Lanz

Professional Registration (including number): SACNASP Registration Number: 400268/12

Date: 05 February 2016





#### **DETAILS OF SPECIALIST AND DECLARATION OF INTEREST**

File Reference Number: NEAS Reference Number: Date Received:

(For official use only)	
12/12/20/ or 12/9/11/L	
DEAT/EIA	

Application for integrated environmental authorisation and waste management licence in terms of the-

- National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014; and
- (2) National Environmental Management Act: Waste Act, 2008 (Act No. 59 of 2008) and

Government Notice 921, 2013

#### PROJECT TITLE

Scoping and Environmental Impact Assessment for the Proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 1) on the remaining extent of Onder Rugzeer Farm 168, north-east of Kenhardt, Northern Cape Province

Specialist:	Private Soil Science Consultant			
Contact person:	Johann Lanz			
Postal address:	P.O. Box 6209, UNIEDAL			
Postal code:	7612	Cell: 082 927 9018		
Telephone:	021 866 1518	Fax:		
E-mail	johann@johannlanz.co.za			
Professional affiliation(s) (if any)	South African Council for Natural Scientific Professions; Soil Science Society of SA			

Project Consultant: Contact person: Postal address: Postal code: Telephone: E-mail

Council for Scientific	and Industrial Research (CSIR)
Surina Laurie	
PO Box 320, Stellen	bosch
7599	Cell: 082 468 0962
021 888 2490	Fax: 021 888 2693
Slaurie@csir.co.za	

4.2 The specialist appointed in terms of the Regulations

Johann Lanz, declare that

#### General declaration:

- . I act as the independent specialist in this application
- I will perform the work relating to the application in an objective manner, even
  if this results in views and findings that are not favourable to the applicant
- I declare that there are no circumstances that may compromise my objectivity in performing such work:
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- · I will comply with the Act, regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity:
- I undertake to disclose to the applicant and the competent authority all
  material information in my possession that reasonably has or may have the
  potential of influencing any decision to be taken with respect to the
  application by the competent authority; and the objectivity of any report,
  plan or document to be prepared by myself for submission to the competent
  authority.
- . all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of Regulation 71 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

Johann Lanz - Soil Scientist (sole proprietor)

Name of company (if applicable):

09 February 2016

Date

## SPECIALIST DECLARATION - JAYSON DAVID JOHN ORTON

I, Jayson Orton, as the appointed independent specialist, in terms of the 2014 EIA Regulations, hereby declare that I:

- I act as the independent specialist in this application;
- I perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- regard the information contained in this report as it relates to my specialist input/study to be true and correct, and do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2014 and any specific environmental management Act;
- I declare that there are no circumstances that may compromise my objectivity in performing such work:
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I have no vested interest in the proposed activity proceeding;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I have ensured that information containing all relevant facts in respect of the specialist input/study was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments on the specialist input/study;
- I have ensured that the comments of all interested and affected parties on the specialist input/study were considered, recorded and submitted to the competent authority in respect of the application;
- all the particulars furnished by me in this specialist input/study are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of	the specialist:	_
Name of Spe	cialist: JAYSON ORTON	
Date:	08 FEBRUARY 2016	



	 _
	 _

#### DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number: NEAS Reference Number: Date Received:

(For official use only)	
12/12/20/ or 12/9/11/L	
DEA/EIA	

Application for integrated environmental authorisation and waste management licence in terms of the-

- National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014; and
- National Environmental Management Act. Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 921, 2013

#### PROJECT TITLE

Postal address:

Postal code:

Telephone:

Scoping and Environmental Impact Assessment for the Proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 1) on the remaining extent of Onder Rugzeer Farm 168, northeast of Kenhardt, Northern Cape Province

Specialist:	ASHA Consulting (Pty) I	.td				
Contact person:	Dr Jayson Orton					
Postal address:	6A Scarborough Road, Muizenberg					
Postal code:	7945	Cell:	083 272 3225			
Telephone:	021 788 8425	Fax:	n/a			
E-mail:	jayson@asha-consulting	.co.za				
Professional	ASAPA CRM Section member #233					
affiliation(s) (if any)	APHP accredited profes	APHP accredited professional heritage practitioner				
Project Consultant:	Council for Scientific and	d Industrial Researc	h (CSIR)			
Contact pareon:	Suring Lauria					

Council for Scientific and Industrial Research (CSIR)

Surina Laurie

PO Box 320, Stellenbosch
7559

Cell: 082 458 0962
021 888 2490 or 021 888 2661

Fax: 021 888 2693

SLaurie@csir.co.za

4.2	The specialist	appointed in terms	of the Regulations
1, _	JA-Ison	ORTON	, declare that

General declaration:

I act as the independent specialist in this application;

I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;

I declare that there are no circumstances that may compromise my objectivity in performing such work:

I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity; I will comply with the Act. Regulations and all other applicable legislation;

I have no, and will not engage in, conflicting interests in the undertaking of the activity;

I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;

all the particulars furnished by me in this form are true and correct; and

I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the seed airst

ASHA CONSMUTING (FTX)

Name of company (if applicable):

27-01-2016

Date:

## SPECIALIST DECLARATION - JOHN ALMOND

I, Dr John Edward Almond, as the appointed independent specialist, in terms of the 2014 EIA Regulations, hereby declare that I:

- I act as the independent specialist in this application;
- I perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- regard the information contained in this report as it relates to my specialist input/study to be true and correct, and do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2014 and any specific environmental management Act;
- I declare that there are no circumstances that may compromise my objectivity in performing such work:
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I have no vested interest in the proposed activity proceeding;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I have ensured that information containing all relevant facts in respect of the specialist input/study was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments on the specialist input/study;
- I have ensured that the comments of all interested and affected parties on the specialist input/study were considered, recorded and submitted to the competent authority in respect of the application;
- all the particulars furnished by me in this specialist input/study are true and correct; and

The E. Almond

• I realize that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

Name of Specialist: Dr John Edward Almond



#### DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number: NEAS Reference Number; Date Received:

(For official use only)	
12/12/20/ or 12/9/11/L	
DEA/EIA	

Application for integrated environmental authorisation and waste management licence in terms of the-

- National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014; and
- (2) National Environmental Management Act: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 921, 2013

#### PROJECT TITLE

Scoping and Environmental Impact Assessment for the Proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 1) on the remaining extent of Onder Rugzeer Farm 168, northeast of Kenhardt, Northern Cape Province

Specialist: Contact person: Postal address: Postal code: Telephone: E-mail: Professional

affiliation(s) (if any)

Dr John E. Almond

Project Consultant: Contact person: Postal address: Postal code: Telephone: E-mail:

4.2	The specialist	appointed	in terms of	of the Reg	gulations
-----	----------------	-----------	-------------	------------	-----------

I, Dr. John Edward Almond, declare that -- General declaration:

I act as the independent specialist in this application;

I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;

I declare that there are no circumstances that may compromise my objectivity in performing such work;

I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;

I will comply with the Act, Regulations and all other applicable legislation;

I have no, and will not engage in, conflicting interests in the undertaking of the activity;

I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;

all the particulars furnished by me in this form are true and correct; and

I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature	of th	e snecis	alie

Hn t. Mund

Name of company (if applicable): NATURA VIVA CC

Date:

8 February 2016

## SPECIALIST DECLARATION - RUDOLPH DU TOIT

I, **Rudolph du Toit**, as the appointed independent specialist, in terms of the 2014 EIA Regulations, hereby declare that I:

- I act as the independent specialist in this application;
- I perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- regard the information contained in this report as it relates to my specialist input/study to be true and correct, and do not have and will not have any financial interest in the undertaking of the activity, other than remuneration for work performed in terms of the NEMA, the Environmental Impact Assessment Regulations, 2014 and any specific environmental management Act;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I have no vested interest in the proposed activity proceeding;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I have ensured that information containing all relevant facts in respect of the specialist input/study was distributed or made available to interested and affected parties and the public and that participation by interested and affected parties was facilitated in such a manner that all interested and affected parties were provided with a reasonable opportunity to participate and to provide comments on the specialist input/study;
- I have ensured that the comments of all interested and affected parties on the specialist input/study were considered, recorded and submitted to the competent authority in respect of the application;
- all the particulars furnished by me in this specialist input/study are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

Name of Specialist: Rudolph du Toit

Date: 28 January 2016




#### DETAILS OF SPECIALIST AND DECLARATION OF INTEREST

File Reference Number: NEAS Reference Number: Date Received:

(For official use only)	
12/12/20/ or 12/9/11/L	
DEA/EIA	

Application for integrated environmental authorisation and waste management licence in terms of the-

- National Environmental Management Act, 1998 (Act No. 107 of 1998), as amended and the Environmental Impact Assessment Regulations, 2014; and
- (2) National Environmental Management Act: Waste Act, 2008 (Act No. 59 of 2008) and Government Notice 921, 2013

#### PROJECT TITLE

Scoping and Environmental Impact Assessment for the Proposed Development of a 75 MW Solar Photovoltaic Facility (KENHARDT PV 1) on the remaining extent of Onder Rugzeer Farm 168, northeast of Kenhardt, Northern Cape Province

Specialist: Contact person: Postal address: Postal code: Telephone: E-mail: Professional affiliation(s) (if any) Rudelph du Teit
Rudelph du Teit
PC Bdy 32c, Stellenbesch
7599
0218882538 Fax: 0218882693
rantoit@Csiv.cd.2a

Project Consultant: Contact person: Postal address: Postal code: Telephone: E-mail: 
 Council for Scientific and Industrial Research (CSIR)

 Surina Laurie
 PO Box 320, Stellenbosch

 7599
 Cell:
 082 468 0962

 021 888 2490 or 021 888 2661
 Fax:
 021 888 2693

 SLaurie@csir.co.za
 SLaurie@csir.co.za

4.2	The specialist appointed in terms of the Regulations_	

1, Rudalph du Toit, declare that -

#### General declaration:

I act as the independent specialist in this application;

- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work:
- I have expertise in conducting the specialist report relevant to this application, including knowledge of the Act, Regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
  I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing any decision to be taken with respect to the application by the competent authority; and the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- all the particulars furnished by me in this form are true and correct; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signature of the specialist:

Name of company (if applicable):

26 January 2016 Date:

## SPECIALIST DECLARATION - SURINA LAURIE

, declare that:
-----------------

- I act as the independent environmental practitioner in this application;
- I will perform the work relating to the application in an objective manner, even if this results in views and findings that are not favourable to the applicant;
- I declare that there are no circumstances that may compromise my objectivity in performing such work;
- I have expertise in conducting environmental impact assessments, including knowledge of the Act, regulations and any guidelines that have relevance to the proposed activity;
- I will comply with the Act, Regulations and all other applicable legislation;
- I will take into account, to the extent possible, the matters listed in regulation 8 of the Regulations when preparing the application and any report relating to the application;
- I have no, and will not engage in, conflicting interests in the undertaking of the activity;
- I undertake to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing - any decision to be taken with respect to the application by the competent authority; and - the objectivity of any report, plan or document to be prepared by myself for submission to the competent authority;
- I will ensure that information containing all relevant facts in respect of the application is distributed or made available to interested and affected parties and the public and that participation by interested and affected parties is facilitated in such a manner that all interested and affected parties will be provided with a reasonable opportunity to participate and to provide comments on documents that are produced to support the application;
- I will ensure that the comments of all interested and affected parties are considered and recorded in reports that are submitted to the competent authority in respect of the application, provided that comments that are made by interested and affected parties in respect of a final report that will be submitted to the competent authority may be attached to the report without further amendment to the report;
- I will keep a register of all interested and affected parties that participated in a public participation process;
- I will provide the competent authority with access to all information at my disposal regarding the application, whether such information is favourable to the applicant or not;
- I will provide the competent authority any information that is provided by the EAP to interested and affected parties and any responses; by the EAP to comments or inputs made by interested or affected parties;
- I affirm that the information provided in this report includes input and recommendations from specialist reports where relevant;
- the information provided in this report has been sourced from relevant literature, legislation, previous studies and specialist input and is therefore believed to be correct;
- I will perform all other obligations as expected from an environmental assessment practitioner in terms of the Regulations; and
- I realise that a false declaration is an offence in terms of regulation 48 and is punishable in terms of section 24F of the Act.

Signed at Stellenbosch on the 29<sup>th</sup> of February 2016

Slame

**Environmental Assessment Practitioner** 



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (GEMSBOK SOLAR PV6) on Portion 8 of Gemsbok Bult Farm 120, north-east of Kenhardt, Northern Cape Province

## EIA REPORT

# APPENDIX C:

Database of Interested and Affected Parties

FIRST NAME	SURNAME	COMPANY/ ORGANISATION	PHYSICAL ADDRESS	POSTAL ADDRESS	EMAIL
Organs of State					
Mmatlala	Rabothatha	National Department of Environmental Affairs: Department of Environmental Affairs: Integrated Environmental Authorisations	Environment House 473 Steve Biko Road Arcadia Pretoria 0001	Private Bag X447 Pretoria 0001	MRabothata@environment.gov.za
Muhammad	Essop	National Department of Environmental Affairs: Department of Environmental Affairs: Integrated Environmental Authorisations	Environment House 473 Steve Biko Road Arcadia Pretoria 0001	Private Bag X447 Pretoria 0002	messop@environment.gov.za
A	Yaphi	Provincial Department of Environment and Nature Conservation: Northern Cape	Sasko Building Kimberley Sasko Building 90 Long Street Kimberley 8301	Private Bag X6102 Kimberley 8300	nyaphi@ncpg.gov.za
М	Mathews	Provincial Department of Environment and Nature Conservation: Northern Cape	Sasko Building Kimberley Sasko Building 90 Long Street Kimberley 8301	Private Bag X6102 Kimberley 8300	mmathews@ncpg.gov.za
Samantha	De la Fontaine	Provincial Department of Environment and Nature Conservation: Northern Cape	Provincial Building (First Floor) Corner of Rivier & Nelson Mandela Road Upington 8800		sdelafontaine@gmail.com
Eric	Ngxanga	ZF Mgcawu District Municipality - Municipal Manager	Corner Hill and Le Roux Street Upington 8800	Private Bag X6039 Upington 8800	sb@siyanda.gov.za

FIRST NAME	SURNAME	COMPANY/ ORGANISATION	PHYSICAL ADDRESS	POSTAL ADDRESS	EMAIL
Frikkie	Ruping	ZF Mgcawu District Municipality - Environmental Manager			fpr@bodr.gov.za
н.т	Scheepers	!Kheis Municipality - Municipal Manager	97 Orange Street, Groblershoop, 8850	Private Bag X2, Oranje Street 97, Groblershoop 8850	teresascheepers@vodamail.co.za
JG	Lategan	Kai ! Garib Municipality - Municipal Manager	11 Ave 9, Kakamas, 8870	Private Bag X6, Kakamas, 8870	mm@kaigarib.gov.za
Mashudu	Randwedzi	Department of Water and Sanitation	Louisvale Road, Upington 8800	Private Bag X5912 Upington 8800	-
Melinda	Mei	Department of Water and Sanitation	Louisvale Road, Upington, 8801	Private Bag X5912 Upington 8800	MeiM@dwa.gov.za
Shaun	Cloete	Department of Water and Sanitation	Louisvale Road, Upington, 8802	Private Bag X5912 Upington 8801	CloeteS@dws.gov.za
Mandla	Ndzilili	Ministry of Environment and Nature Conservation	4th Floor, Metlife Towers Building, cnr Market Square and Stead Streets, Kimberley 8301	Private Bag X6120 Kimberley 8301	mndzilili@ncpg.gov.za
Sibonelo	Mbanjwa	Provincial Department of Environment and Nature Conservation: Northern Cape	Sasko Building Kimberley Sasko Building 90 Long Street Kimberley 8301	Private Bag X6120 Kimberley 8301	smbanjwa@ncpg.gov.za
Mashudu	Marubini	Department of Agriculture, Forestry and Fisheries - Delegate of the Minister (Act 70 of 1970)	Delpen Building, cnr Annie Botha and Union Street, Office 270, Pretoria, 0001	Private Bag X120, Pretoria 0001	MashuduMa@daff.gov.za
H.J.	Buys	Department of Agriculture, Forestry and Fisheries: Land Use and Soil Management	Delpen Building, cnr Annie Botha and Union Street, Office 270,	Private Bag X120 Gezina, Pretoria 0031	nhlakad@daff.gov.za

FIRST NAME	SURNAME	COMPANY/ ORGANISATION	PHYSICAL ADDRESS	POSTAL ADDRESS	EMAIL
			Pretoria, 0001		
Thoko	Buthelezi	Department of Agriculture, Forestry and Fisheries - AgriLand Liaison office	Delpen Building, cnr Annie Botha and Union Street, Office 270, Pretoria, 0002	Private Bag X120, Pretoria 0001	ThokoB@daff.gov.za
D	Nhlakad	Department of Agriculture, Forestry and Fisheries - AgriLand Liaison office	Delpen Building cnr Annie Botha and Union Street Pretoria 0001	Private Bag X120, Pretoria 0001	nhlakad@daff.gov.za
Anneliza	Collett	Department of Agriculture, Forestry and Fisheries - AgriLand Liaison office	Office 270 Delpen Building cnr Annie Botha and Union Street Pretoria 0001	Private Bag X120, Pretoria 0001	annelizac@nda.agric.za
Jacoline	Mans	Department of Agriculture, Forestry and Fisheries - Chief Forester: NFA Regulation	Louisvale Road, Upington 8800	PO BOX 2782 Upingotn 8800	JacolineMa@daff.gov.za
Ali	Diteme	Agriculture, Land Reform & Rural Development	162 George Street (Old Kimberlite Hotel), Kimberley, 8300	Private Bag X 5018, Kimberley, 8300	aditeme@agri.ncape.gov.za
Pieter	Buys	National Energy Regulator of South Africa (NERSA)	Kulawula House 526 Vermeulen Street Arcadia Pretoria	PO Box 40343, Arcadia, 0007	peter.buys@nersa.org.za
IA	Bulane	Department of Public Works, Roads and Transport	9-11 Stokroos Street, Squarehill Park, Kimberley 8301	PO Box 3132, Squarehill Park, Kimberley 8300	-
Denver	Van Heerden	Department of Public Works, Roads and Transport	9-11 Stokroos Street, Squarehill Park, Kimberley 8301	PO Box 3132, Squarehill Park, Kimberley 8300	klawrence@trpw.ncape.gov.za
Rene	de kock	South African Roads Agency Limited (SANRAL) Northern Cape (Western Region)	Parc du Cap, Building 5, Cnr Mispel Str & Willie van Schoor Ave,	Private Bag X19 Bellville, 7535	waltjc@nra.co.za  Dekockr@nra.co.za

FIRST NAME	SURNAME	COMPANY/ ORGANISATION	PHYSICAL ADDRESS	POSTAL ADDRESS	EMAIL
			Bellville 7530		
Nicole	Abrahams	South African Roads Agency Limited (SANRAL) Northern Cape (Western Region)	Parc du Cap, Building 5, Cnr Mispel Str & Willie van Schoor Ave, Bellville 7530	Private Bag X19 Bellville, 7535	AbrahamsN@nra.co.za
М	Lepheane	Department of Labour		Private Bag X5012, Kimberley, 8300	monica.lepheane@labour.gov.za
А	Botes	Department of Social Development	Mimosa Complex, Barkley Road, Kimberley 8300	Private Bag X 5042, Kimberley 8300	ptigerncpg.gov.za
Riaan	Warie	Northern Cape Economic Development Agency	227 Du Toitspan Road, Belgravia, Kimberley 8301	227 Du Toitspan Road, Belgravia, Kimberley 8301	rwarie@ncpg.gov.za
Andrew	Timothy	Directorate Heritage, Department - Sports, Arts and Culture	1 Robb Street, Kimberley North	P. O. Box 1930, Kimberley 8300	ratha.timothy@gmail.com
Lizell	Stroh	South African Civilian Aviation Authority	Ikhaya Lokundiza, 16 Treur Close, Waterfall Park, Bekker Street, Midrand, Gauteng	Private Bag X73 Halfway House 1685	strohl@caa.co.za
John	Geeringh	ESKOM	D1Y38, Megawatt Park, 1 Maxwell Drive, Sunninghill, 2191	P.O.Box 1091 Johannesburg 2157	GeerinJH@eskom.co.za
Kevin	Leask	ESKOM			<u>LeaskK@eskom.co.za</u>
Justine	Wyngaardt	Eskom Holdings Limited: Eskom Distribution Western Operating Unit	Eskom Road, Brackenfell, Western Cape 7561		WyngaaJO@eskom.co.za
Lindi	Haarhoff	ESKOM (Nieuwehoop Substation)			HaarhL@eskom.co.za
Sharon	Steyn	Northern Cape Chamber of Commerce and Industry	Business Park, 14 Long Street Kimberley 8300	PO Box 350, Kimberley 8300	sharon@nocci.co.za
Karen	Low	Mulilo Renewable Project Developments	303c Execujet Business Centre Tower Road	PO Box 50 Cape Town International	karen@mulilo.com

FIRST NAME	SURNAME	COMPANY/ ORGANISATION	PHYSICAL ADDRESS	POSTAL ADDRESS	EMAIL
			Cape Town International Airport South Africa 7525	Airport South Africa 7525	
Henning	Myburgh	Agri Northern Cape		PO Box 1094, Kimberly 8300	ncagric@worldonline.co.za ontvang@agric.co.za
Adrian	Tiplady	SKA SA	17 Baker Street Rosebank Johannesburg South Africa 2196		atiplady@ska.ac.za
Marina	Lourens	Transnet Freight Rail		Private Bag X11, Vredenburg, 7379	Marina.Lourens@transnet.net
Gilbert	Nortier	Transnet Freight Rail		Private Bag X11, Vredenburg, 7380	Gilbert.Nortier@transnet.net
Mayvyn	Bhana	Transnet			Mayvyn.Bhana@transnet.net
Clive	Stephenson	Transnet			Clive.Stephenson@transnet.net
The Director		Department of Energy Nothern Cape	65 Phakamile Mabija Street, Perm Building, 3rd Floor, Kimberley, 8300	Private Bag X6093 Kimberley, 8300	
Chantel	Schwartz	Department of Water and Sanitation (DWS)		Private Bag X5912 Upington 8800	SchwartzC@dws.gov.za
Kgauta	Mokoena	Department of Mineral Resources	Director: Mine Environmental Research and Sustainable Development	Private Bag x 59 ARCADIA 0007	Kgauta.Mokoena@dmr.gov.za

FIRST NAME	SURNAME	COMPANY/ ORGANISATION	PHYSICAL ADDRESS	POSTAL ADDRESS	EMAIL
Elliot	Sibeko	Department of Telecommunication & Postal Services			esibeko@dtps.gov.za
Chris	Coetzee	Southern African Large Telescope (SALT) Sutherland	SALT Operations Manager  Project Manager Raoul Van den Berg raoul@salt.ac.za  ASTRONOMY OPERATIONS Head of Astronomy Operations Petri Vaisanen petri@salt.ac.za		chris@salt.ac.za
Raoul	Van den Berg	Southern African Large Telescope (SALT) Sutherland	SALT Project Manager		raoul@salt.ac.za
Dr. Joh R	Henschel	SAEON Arid Lands Node	Manager		joh.henschel@saeon.ac.za
Praneel	Ruplal	Independent Communications Authority of South Africa (ICASA)			pruplal@icasa.org.za

FIRST NAME	SURNAME	COMPANY/ ORGANISATION	PHYSICAL ADDRESS	POSTAL ADDRESS	EMAIL		
Conservation organizations and NGOs							
Simon	Gear	Birdlife South Africa		PO Box 515 Randburg, 2194	advocacy@birdlife.org.za		
Lubabalo	Ntsolo	C.A.P.E. Co-ordination Unit: Northern Cape		Private Bag X7, Claremont, 7735	l.ntsolo@sanbi.org.za		
Freyni	du Toit	Grasslands Society of Southern Africa			admin@grasslands.org.za		
		Endangered Wildlife Trust, Wildlife and Energy Programme			wep@ewt.org.za		
Dr. Howard	Hendricks	South African National Parks (SANParks) - Snr GM: Policy & Governance Conservation Services Division		PO Box 787, Pretoria, 0001	howard.hendricks@sanparks.org		
Samantha	Ralston	Endangered Wildlife Trust		Private Bag X11, Modderfontein, 1609, Johannesburg			
Land Owners and Adjacent Pro	operty Owner	·s					
Andre	Van Niekerk	Kamkuip Boerdery (Pty) Ltd			straussdj@orientis.co.za/ ameliastrauss2@gmail.com		
D.J	Strauss	Kamkuip Boerdery (Pty) Ltd			straussdj@orientis.co.za/ ameliastrauss2@gmail.com		
Andre	Van Niekerk	Van Niekerk Gesins Trust			andre.vanniekerk10@gmail.com/ kraaines@mweb.co.za		
Rudolph	Grobler			PO Box 41, Keimos 8860	boozahunter@yahoo.com		
Hendrik	Van Wyk	Wilcaris Pty Ltd			hendri@aheadtrading.co.za		

FIRST NAME	SURNAME	COMPANY/ ORGANISATION	PHYSICAL ADDRESS	POSTAL ADDRESS	EMAIL
Ernest	Connan	Ernest Connan Trust		PO Box 290, Upington, 8800	ernest.connan@donco.co.za
Johan	Steenkamp	JHJ Steenkamp Trust		JHJ Steenkamp Trust PO Box 3267 Upington 8800	jhjs@webmail.co.za
Additional Registered I&APS					
Melanie	Miles	Leads 2 Business			MelanieM@L2B.co.za
Claude	Bosman	Veroniva (PTY) Ltd - Renewable Energy			claude@veroniva.co.za
Enelge	Gildenhuys	Mainstream Renwable Power	4th Floor, Mariendahl House, Newlands on Main Corner Main Road and Campground, Claremont	PO Box 45063, Claremont, 7735	Enelge.Gildenhuys@mainstreamrp.com
Ivan De Wee	De Wee	T/A Mhalo Building Construction			ivandewee@gmail.com; dewee@gmail.com
Lawrence	Smith	Proptrans NC			proptransnc@gmail.com
Myren	Bock				myrenb91@gmail.com
Nico	Engelbrecht	Tshwalec Power Projects			nico@tshwalec.co.za
Neels	Vosloo	Tswalec & Solarett Joint Venture			nico@tshwalec.co.za
Ordain	Riba	Environmental Officer Directorate: Impact Management	Department of Environment and Nature Conservation		oriba@ncpg.gov.za

FIRST NAME	SURNAME	COMPANY/ ORGANISATION	PHYSICAL ADDRESS	POSTAL ADDRESS	EMAIL
			Private Bag x 6102 Kimberley 8300		oriba.denc@gmail.com



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (GEMSBOK SOLAR PV6) on Portion 8 of Gemsbok Bult Farm 120, north-east of Kenhardt, Northern Cape Province

# EIA REPORT

# APPENDIX D:

Copy of Newspaper Advertisement

#### Newspaper Advertisement - The Gemsbok

### Niël se nuwe boek by Kuierfees bekend gestel

GEMSBOK-UPINGTON: Niël Stemmet is 'n kosskrywer, fotojoernalis, wynplaas- en restaurant-konsultant en bekroonde ontwerper, wat in die ontwerp van restaurante spesialiseer.

Dit is ook met groot opgewondenheid dat hy sy nuutste boek, *Bitter+soet*, ydens die Kalahari Kuierfees op Woensdag, 23 September, gaan kom bekend

bitter+soet vertel die verhaal van Mietha Klaaste wat op die plaas Langverwacht, in die omgewing van Robertson grootgeword het, soos oorvertel deur Niël Blief sold in die omgewing van Robertson grootgeword no., seen Stemmet.

Stemmet.

Die lief en leed van Mietha en Daniel word op kleurryke wyse vertel, met gedigte, rympies en liedjies toegelig, terwyl vergange dae se lekker resepte deel daarvan utmaak.

Umaak op die Sterdagoggend gaan Niël 'n kosproduksie in die OWK Kuiertent lewer. Vir

#### Wen 'n Bitter +soet

Gemsboklesers kry ook kans een van Niel se boeke te wen. Stuur 'n outentieke resep na elsaj@gemsbok.co.za en staan 'n kans om een van die boeke te wen.



### Uittreksel uit Bitter+soet

#### hoofstuk 17

Daniel-kind, na die jongseunruik as ek sy borselkop vasdruk in myse nek. Ek onthou hoe ek jou gebad het toe jy 'n kleine baba was, jou oortjies gewas het, tussen jou toontjies waar dit so maklik suur kon ruik. Ek onthou hoe ek jou boudjies vol Johnson's se babapoeier gegooi het wanneer jy rooi blink. Ek onthou die dag toe jy skool toe is – jy was skaars ses babapoeier gegooi het wanneer jy rooi tink. Ek onthou die dag toe jy skool toe is – jy was skaars ses jare oud. Dit was warm, middel Januarie in 1968. Jou oupa jire oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer oud Dit was warm, middel Januarie in 1968. Jou oupa jer out Dit was warm, middel Januarie in 1968. Jou oupa jer out Dit was warm, middel Januarie in 1968. Jou oupa jer out Dit was warm, middel Januarie in 1968. Jou oupa jer out Dit was warm, middel Januarie in 1968. Jou oupa jer out Dit was warm, middel Januarie in 1968. Jou oupa jer out Dit was warm, middel Januarie in 1968. Jou oupa jer out Dit was warm, middel Januarie in 1968. Jou oupa jer out Dit was warm, middel Januarie in 1968. Jou oupa jer out Dit w

jou leer bossies blomme pluk het vir jou

Ek onthou toe jy siek was en ek langs jou bed gesit het, hoe ek jou stroop gevoer het, jou voorkop afgespons het,

sou en wou doen om die koors in jou lyf te breek.

Ek onthou soveel goed ... Jy, mý kind, mý grootmaakkind, mý vashoukind, mý liefmenskind.

Hermenskund.
Baa-baa swartskaap
Het jy baie wol?
Ja oom, ja oom, drie sakke vol. Een
vir die tannie en een vir die oom En een vir die dogtertjie

Van Wakkerstroom

Ek onthou hoe ek jou geabba het op my rug, om jou aan die slaap te sus, jou na droomland toe te stuur. Soms biddend as jy klaend was met al die huiswerk voor my, dat Klaasvakie net sand in jou ogies sal strooi, solat ek met my werk kan klaarmaak.

Dan werk ek deur die huis, die notte maak musiek op die stoof, ek vrywe die meubels in met rooi meubelolie, op my knieë polish ek die vloere met Cobra-polish, ek was die vensters met ou Die Burger-koerante en pers spirits, ek was die kosyne af, bo-op die kaste, agter

die kaste terwyl ek jou hart se klop soos 'n nagwekker op Hoe verlang ek nie vanaand na my rug voel. Jou mondjie se kwyl maak nat op my rug, ek
Daniël-kind, na die jongseunruik as ek
sy barselkon vasdryk in myse nek
sy barselkon vasdryk in myse nek

Ek onthou al die moeilik, dit bly om ' maar fouse vool oe, die was myne.

Ek onthou ook hoe jy jou armpies om my nek gegooi en my sich gedoor my sich maan geloop het, buite op die lawn gesit het en die man in die maan probeer sien het. Jy het 'n hasie gesien en ek ook, tog het oons geglo die man op die maan, dié Neil-man, het oor sam y kamer toe gaan.

Ek onthou al die moeilik, dit bly om ' maar fouse vool oe, die was myne.

Ek onthou al die moeilik, dit bly om ' maar fouse vool oe, die was myne.

Ek onthou al die moeilik, dit bly om ' maar fouse vool oe, die was myne.

Ek onthou hoe ke en jy die nag wat Neil Armstrong op die was myne.

Ek onthou hoe ke en jy die nag wat Neil Armstrong op die was myne.

Ek onthou hoe ke en jy die nag wat Neil Armstrong op die was myne.

Ek onthou hoe ke en jy die nag wat Neil Armstrong op die was myne.

Ek onthou hoe ke en jy die nag wat Neil Armstrong op die was myne.

Ek onthou hoe ke en jy die nag wat Neil Armstrong op die was myne.

Ek onthou hoe ke en jy die nag wat Neil Armstrong op die was myne.

Ek onthou hoe ke en jy die nag wat Neil Armstrong op die was myne.

Ek onthou hoe ke en jy die nag wat Neil Armstrong op die was myne.

ons raakgesien. "Kyk, Mietha, hy waai! Kyk!" "Ja, Daniël, hy waai wir jou en my." Saam het ek en jy van die lawn af vir die maan gewaai, ons arms wuiwend in die naglug. Ek onthou hoe ek jou stories vertel het kind het 'n ouer Kleurlingmens op sy naam aangespreek ek jou leer knikkers uithaal het op die gras voor die huis. Hoe ek jou gelen het dat die gousblomme se toeknoppies ook swiets kan wees om te kou. Hoe ek jou leer bossies blomme nluk het vir inv



ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE WASTE

#### Date of advertisement: 9 September 2015

The Department of Environmental Affairs (DEA) has appointed \$\mathcal{S}\$ Solutions tild and AECOM \$A (Pty) Ltd to prepare the necessary applications to licens following laready existing un-licensed waxed eignosal facilities (WDEF) in the Noc Cape. These WDFs are classified as a Category A facility in terms of the Na Environmental Management: Waxed Act (Art No. 59 of 2008) (MEM-WA). This rea a Basic Assessment (BA) Process for each of the two facilities.

SITE LOCATION AND DESCRIPTION
Notice is hereby given that the Khai IGarib Local Municipality, Northern Cape is applying for a waste licence for the operation of the existing Vredesvallei and Riemvasmaak Landfills. These landfills currently accept general domestic waste.

PROJECT TEAM
Applicant: Khal: IGarib Local Municipality
Independent Environmental Consultant: SE Solutions (Pty) Ltd
Environmental Authority: Northern Cape Provincial Departm
and Nature Conservation (DENC).

### GISTRATION OF INTERESTED AND AFFECTED PARTIES (I&APs):

u you wish to register as an I&AP, please submit your name, contact hation, interest in the matter and any comments you may have to the contact in indicated below. This will ensure that you receive future correspondence ling the proposed process.









#### KENNISGEWING VAN

OMGEWINGSIMPAKEVALUERINGPROSESSE VIR DIE ONTWIKKELING VAN SEWE FOTOVOLTAÏSE SONKRAGAANLEGTE NOORD-OOS VAN KENHARDT IN DIE NOORD-KAAP

CSIR VERWYSING: EMS0106/MULILO/2015



CSIK YEAVTSING: ENSUIDO/PRULILLO/ZUID

MULILLO

MICHAEL O MICHAEL

Restant van Boven Rugzeer Plaas 169.

In terne van die Nasionole Wei op Cimperingsbestuur (Met 107 van 1998, soot gewysig) (NEKA) en die 2014 NEMA Ongervings Impak Assessings (EA) Regularies perpromalipers in Stanbakorani 3822 en Shortsheringspering (1982, 1983, 1984 en 1893) op 8 Desember 2014, vereis die beoogde projekt dat 'n Orwangsbepoling- en Ongewingsverliering (DEI prosesse onderneem noor vort. Die Weberskapflike en Nywarheidsenvorsingstraad (MNNRI) is deur Ahillo aangestell om die vereiste prosesse en beneden en om die vereiste prosesse en benedig Omgewingsmagliging voordet die projek voorspaan (SK 8983 - 11 (l.)) (2.) en hijs: 19 (j. 12. dig.) (2. RNRA 1: 1.) Sen (SK 985 1.2 (d.)) De rootsse sol ook oan die vereistes van die Wet op Nasionale Erfensitulphonne (Wet 25 van 1999) voldoen.

niermee genooi om as 'n belangstellende en/of geaffekteerde party te regit | later as 10 Oktober 2015 nie). Dit sal ons in stoat stel om u op ons p is by te voeg en ook sodat u enige kommentaar of kwelpunte aangaand an opper. Hierdie kommentaar sal by die Omvangsbepalingverslag ingestul'r





ENVIRONMENTAL IMPACT ASSESSMENT PROCESS FOR THE WASTE LICENCE APPLICATION FOR UNLICENCED MUNICIPAL WASTE DISPOSAL FACILITIES IN THE NORTHERN CAPE: INVITATION TO STAKEHOLDERS TO REGISTER AND BE A PART OF THE PROCESS

#### Date of advertisement: 9 September 2015

VIOOLSDRIFT AND ROOIWAL COMMUNAL LANDFILLS

The Department of Environmental Affairs (DEA) has appointed SE Solutions (Pty) Ltd and AECOM SA (Pty) Ltd to prepare the necessary applications to license the following already existing unificrosed waste disposal facilities (WDS) in the Northern Cape. These WDFs are classified as a Category A facility in terms of the National Environmental Management: Waste Act (Act No. 59 of 2008) (NEM-WA) This requires a Basic Assessment (BA) Process for each of the two facilities.

SITE LOCATION AND DESCRIPTION
Notice is hereby given that the Nama Khoi Local Municipality, Northern Cape is applying for a waste licence for the operation of the existing Vioolsdrift and Rooiwal Landfills. These landfills currently accept general domestic waste.

PROJECT TEAM

Applicant: Name Khoi Local Municipality
Independent Environmental Consultant: SE Solutions (Pty) Ltd

molepandent Environmental Authority: Northern Cape Provincial Department of Environment

and Nature Conservation (DENC).

And Nature Conservation (DRC).

REGISTARINO OF INTERESTED AND AFFECTED PARTIES (I&APs):

Should you wish to register as an I&AP, please submit your name, contact information, interest in the matter and any comments you may have to the contact person indicated below. This will ensure that you receive future correspondence regarding the proposed process.

Please direct enquiries or comments to Ms Bongi Shinga at AECOM: Tel: (012) 421 3767 Fax: 086 650 0711

st: P O Box 3173, Pretoria, 0001 nail: bongi@deawaste2015.co.za



# KENNISGEWING VAN OMGEWINGSIMPAKEVALUERINGPROSESSE VIR DIE ONTWIKKELING VAN SEWE FOTOVOLTAÏSE SONKRAGAANLEGTE NOORD-OOS VAN KENHARDT IN DIE NOORD-KAAP

CSIR VERWYSING: EMS0106/MULILO/2015



Mulilo Renewable Project Developments (Pty) Ltd (die Aansoeker) is van voorneme om sewe fotovoltaïese (FV) of gekonsentreerde fotovoltaïese (GFV) sonkragaanlegte met 'n opwekkingsvermoë van 75 MW elk en elektriese

infrastruktuur (132 kV kraglyn vir elke 75 MW sonkrag fasiliteit) 30 km noord-oos van Kenhardt op Gedeeltes 3 en 8 van Gemsbok Bult Plaas 120 en Restant van Boven Rugzeer Plaas 169 op te rig. Twee van die aanlegte sal op Gedeelte 3 –, twee aanlegte sal op Gedeelte 8 van Gemsbok Bult Plaas 120 opgerig word and drie aanlegte op Restant van Boven Rugzeer Plaas 169.

In terme van die Nasionale Wet op Omgewingsbestuur (Wet 107 van 1998, soos gewysig) (NEMA) en die 2014 NEMA Omgewings Impak Asseserings (EIA) Regulasies gepromulgeer in Staatskoerant 38282 en Staatskennisgewing (R982, R983, R984 en R985) op 8 Desember 2014, vereis die beoogde projekte dat 'n Omvangsbepaling-en Omgewingsevaluering (OIE) prosesse onderneem moet word. Die Wetenskaplike en Nywerheidsnavorsingsraad (WNNR) is deur Mulilo aangestel om die vereiste prosesse te onderneem. Die volgende gelyste aktiwiteite is moontlik van toepassing op die projek en benodig Omgewingsmagtiging voordat die projek voortgaan: GK. R983: 11 (i);12 (x) and (xii); 19 (i); 24 (ii); 28 (ii); GK.R984: 1; 15 en GK.R985 12 (d). Die proses sal ook aan die vereistes van die Wet op Nasionale Erfenishulpbronne (Wet 25 van 1999) voldoen.

Sewe aparte Omgewingsmagtiging aansoeke sal ingedien word by die Nasionale Departement van Omgewingsake. Aangesien al sewe projekte in dieselfde geografiese area geleë is en dieselfde tipe aktiwiteit behels sal 'n geïntegreerde Publieke Deelname Proses onderneem word.

U word hiermee genooi om as 'n belangstellende en/of geaffekteerde party te registreer (teen nie later as 10 Oktober 2015 nie). Dit sal ons in staat stel om u op ons projek databasis by te voeg en ook sodat u enige kommentaar of kwelpunte aangaande die projek kan opper. Hierdie kommentaar sal by die Omvangsbepalingverslag ingesluit word.

Vir verdere inligting en/of om as 'n belangstellende en geaffekteerde party te registreer, kontak: Minnelise Levendal (Omgewings Impak Asseserings Konsultant van WNNR (CSIR) Posadres: Posbus 320, Stellenbosch, 7599. Tel:(021) 888 2495. Faks:(021) 888 2693 E-pos: mlevendal@csir.co.za





Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (GEMSBOK SOLAR PV6) on Portion 8 of Gemsbok Bult Farm 120, north-east of Kenhardt, Northern Cape Province

# EIA REPORT

# APPENDIX E:

Copies and Proof of Correspondence sent to I&APs during the Scoping Phase

### CONTENTS

Proof of Notice to I&APs of the submission of the Scoping Report to DEA for decision-making.	2
Letter 2: Notification of Scoping Report for comment	5
Comment form	6
Proof of correspondence with I&APs for the release of the Scoping Report for comment	7
Emails sent to all I&APs to notify them of the release of the Scoping Report for comment	22
Letter 1: Notification of the BA, Scoping and EIA Processes	30
Background Information Document sent with Letter 1 and email notifications	32
Proof of Correspondence with I&APs (Registered Mail Receipts for Letter 1)	40
Proof of registered mail	51
Emails sent to all I&APs on 9 September 2015 (English and Afrikaans)	53

#### Proof of Notice to I&APs of the submission of the Scoping Report to DEA for decision-making.

Page 1 of 3

From: Minnelise Levendal <mlevendal@csir.co.za>

09-Dec-2015 15:03

To: Minnelise Levendal <mlevendal@csir.co.za>

Muhammad Essop < messop@environment.gov.za >, LeaskK@eskom.co.za <leaskk@eskom.co.za>, MeiM@dwa.gov.za <meim@dwa.gov.za>, boozahunter@yahoo.com <boozahunter@yahoo.com>, Nico Engelbrecht <nico@tshwalec.co.za>, Gilbert.Nortier@transnet.net <gilbert.nortier@transnet.net>, ncagric@worldonline.co.za ontvang@agric.co.za <ncagric@worldonline.co.za ontvang@agric.co.za>, karen@mulilo.com <karen@mulilo.com>, Clive.Stephenson@transnet.net <clive.stephenson@transnet.net>, monica.lepheane@labour.gov.za <monica.lepheane@labour.gov.za>, Justine Wyngaardt <wyngaajo@eskom.co.za>, rwarie@ncpg.gov.za <rwarie@ncpg.gov.za>, sharon@nocci.co.za <sharon@nocci.co.za>, Melanie Miles <melaniem@l2b.co.za>, straussdj@orientis.co.za/ ameliastrauss2@gmail.com <straussdj@orientis.co.za/ ameliastrauss2@gmail.com>, Mayvyn.Bhana@transnet.net <mayvyn.bhana@transnet.net>, aditeme@agri.ncape.gov.za <aditeme@agri.ncape.gov.za>, advocacy@birdlife.org.za <advocacy@birdlife.org.za>, admin@grasslands.org.za <admin@grasslands.org.za>, sb@siyanda.gov.za <sb@siyanda.gov.za>, smbanjwa@ncpg.gov.za <smbanjwa@ncpg.gov.za>, mm@kaigarib.gov.za <mm@kaigarib.gov.za>, mmathews@ncpg.gov.za <mmathews@ncpg.gov.za>, mashuduma@daff.gov.za <mashuduma@daff.gov.za>, nyaphi@ncpg.gov.za <nyaphi@ncpg.gov.za>, nhlakad@daff.gov.za <nhlakad@daff.gov.za>, Nicole

BCC: Abrahams (WR) <abrahamsn@nra.co.za>, Claude Bosman <claude@veroniva.co.za>, waltjc@nra.co.za <waltjc@nra.co.za>, ivandewee@gmail.com. <ivandewee@gmail.com.>, MMatlala Rabothata <mrabothata@environment.gov.za>, CloeteS@dws.gov.za <cloetes@dws.gov.za>, JacolineMa@daff.gov.za <jacolinema@daff.gov.za>, ThokoB@daff.gov.za <thokob@daff.gov.za>, l.ntsolo@sanbi.org.za <l.ntsolo@sanbi.org.za>, peter.buys@nersa.org.za <peter.buys@nersa.org.za>, ORiba@ncpq.gov.za <oriba@ncpq.gov.za>, Adrian Tiplady <atiplady@ska.ac.za>, dewee@gmail.com <dewee@gmail.com>, proptransnc@gmail.com <ernest.connan@donco.co.za>, mndzilili@ncpq.gov.za <mndzilili@ncpq.gov.za>, hendri@aheadtrading.co.za <hendri@aheadtrading.co.za>, sdelafontaine@gmail.com <sdelafontaine@gmail.com>, strohl@caa.co.za <strohl@caa.co.za>, andre.vanniekerk10@gmail.com/ kraaines@mweb.co.za <andre.vanniekerk10@gmail.com/ kraaines@mweb.co.za>, Enelge.Gildenhuys@mainstreamrp.com <enelge.gildenhuys@mainstreamrp.com>, fpr@bodr.gov.za <fpr@bodr.gov.za>, howard.hendricks@sanparks.org < howard.hendricks@sanparks.org > , John Geeringh < geerinjh@eskom.co.za>, Marina.Lourens@transnet.net <marina.lourens@transnet.net>, annelizac@nda.agric.za <annelizac@nda.agric.za>, wep@ewt.org.za <wep@ewt.org.za>, teresascheepers@vodamail.co.za <teresascheepers@vodamail.co.za>,

https://archive.csir.co.za/RetainServer/User/download.jsp?get=1&download=0&docId... 18/03/2016

Page 2 of 3

myrenb91@gmail.com <myrenb91@gmail.com>, jhjs@webmail.co.za <jhjs@webmail.co.za>, ratha.timothy@gmail.com <ratha.timothy@gmail.com>, klawrence@trpw.ncape.gov.za <klawrence@trpw.ncape.gov.za>

Subject: Notice of Submission of Scoping Reports to DEA for decision-making for 7 Solar PV Facilities of Mulilo near Kenhardt, NC

Attachments: MESSAGE HTML (11362 bytes)
MESSAGE TEXT (3158 bytes)

Dear Stakeholders and Interested and Affected Parties

NOTICE OF SUBMISSION OF THE SCOPING REPORTS TO THE COMPETENT AUTHORITY FOR DECISION-MAKING FOR THE PROPOSED DEVELOPMENT OF SEVEN SOLAR PHOTOVOLTAIC (PV) FACILITIES PROPOSED BY MULILO RENEWABLE PROJECT DEVELOPMENTS (PTY) LTD.

REFERRED TO AS GEMSBOK SOLAR PV3, GEMSBOK SOLAR PV4 ON PORTION 3 OF GEMSBOK BULT FARM 120; GEMSBOK SOLAR PV5 AND GEMSBOK SOLAR PV6 ON PORTION 8 OF GEMSBOK BULT FARM 120; AND BOVEN SOLAR PV2, BOVEN SOLAR PV3 AND BOVEN SOLAR PV4 ON THE REMAINING EXTENT OF BOVEN RUGZEER FARM 169), NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE

Competent Authority: National Department of Environmental Affairs

#### CSIR REFERENCE : EMS0106/MULILO/2015

This e-mail correspondence serves to inform you of the submission of the seven Scoping Reports for the above-mentioned proposed projects to the National Department of Environmental Affairs (DEA) for decision-making in terms of Regulation 22 of the 2014 National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) Environmental Impact Assessment (EIA) Regulations. The Project Applicant is intending to develop seven 75 Megawatt (MW) Solar Photovoltaic (PV) power generation facilities, on the farms mentioned above , approximately 80 km south of Upington and 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The proposed 75 MW Solar PV projects are referred to as:

- 1. Gemsbok Solar PV3 (DEA reference number: 14/12/16/3/3/2/841)
- 2. Gemsbok Solar PV4 (DEA reference number: 14/12/16/3/3/2/842)
- 3. Gemsbok Solar PV5 (DEA reference number: 14/12/16/3/3/2/843)
- Gemsbok Solar PV6 (DEA reference number: 14/12/16/3/3/2/844)
- 5. Boven Solar PV2 (DEA reference number: 14/12/16/3/3/2/845)
- 6. Boven Solar PV3 (DEA reference number: 14/12/16/3/3/2/846)
- 7. Boven Solar PV4 (DEA reference number: 14/12/16/3/3/2/847)

As a registered Interested and Affected Party (I&AP) on the project database, you were notified of the release of the Scoping Reports for a 30-day review period. The comments received from stakeholders during this review period have been incorporated into the finalised Scoping Reports (where required), as well as the Issues and Responses Trail (i.e. Chapter 7 of the finalised Scoping Reports).

As noted above, the finalised Scoping Reports were submitted to the National DEA, in accordance with Regulation 21 (1) of the 2014 NEMA EIA Regulations, for decision-making (i.e. acceptance or rejection) in terms of Regulation 22 of the 2014 NEMA EIA Regulations. If the Scoping Reports are approved by the National DEA, this approval will mark the end of the Scoping Phase after which the EIA Process moves into the impact assessment and reporting phase. You will be notified and provided with an opportunity to comment on the EIA Reports when released.

For information purposes, the finalised Scoping Reports for the seven Solar PV projects have been placed on the project website: <a href="https://www.csir.co.za/eia/MuliloSolar">www.csir.co.za/eia/MuliloSolar</a>

https://archive.csir.co.za/RetainServer/User/download.jsp?get=1&download=0&docId... 18/03/2016

Page 3 of 3

Thank you and kind regards, Minnelise Levendal CSIR - Environmental Management Services P. O. Box 320, Stellenbosch, 7599 Tel: 021 888 2495 Email: mlevendal@csir.co.za

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#### **Letter 2: Notification of Scoping Report for comment**



**CSIR Environmental Management Services** 

PO Box 320, Stellenbosch, 7599 Tel: +27 21 888 2495 Fax: +27 21 888 2693 Email: mlevendal@csir.co.za

23 October 2015

Dear Interested and Affected Party

RE: RELEASE OF SCOPING REPORTS FOR THE PROPOSED DEVELOPMENT OF SEVEN SOLAR PHOTOVOLTAIC (PV) FACILITIES (REFERRED TO AS GEMSBOK SOLAR PV3, GEMSBOK SOLAR PV4, GEMSBOK SOLAR PV5 AND GEMSBOK SOLAR PV6; AS WELL AS BOVEN SOLAR PV2, BOVEN SOLAR PV3 AND BOVEN SOLAR PV4) ON PORTIONS 3 AND 8 OF GEMSBOK BULT FARM 120 AND THE REMAINING EXTENT OF BOVEN RUGZEER FARM 169, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (CSIR REFERENCE: EMS0102/SCATEC/2015)

As an Interested and Affected Party on our database, you are hereby notified of the release of the seven Scoping Reports for a 30-day commenting period ending on 24 November 2015 for the seven Solar PV Facilities and associated electrical infrastructure near Kenhardt in the Northern Cape (CSIR Reference Number: EMS0106/MULILO/2015).

Mulilo Renewable Project Developments (PTY) LTD (Mulilo) intends to develop seven Solar PV Facilities of 75 MW each and associated electrical infrastructure (132 kV transmission lines for each 75 MW facility) on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining Extent of Boven Rugzeer Farm 169 near Kenhardt in the Northern Cape. The seven projects are indicated in Table 1.

Table1: Seven Preferred Solar PV Facilities proposed by Mulilo near Kenhardt in the Northern Cape

NS	Solar PV Project	Project Site
1	Gemsbok Solar PV3	Portion 3 of Gemsbok Bult Farm 120
2	Gemsbok Solar PV4	Portion 3 of Gemsbok Bult Farm 120
3.	Gemsbok Solar PV5	Portion 8 of Gemsbok Bult Farm 120
4	Gemsbok Solar PV6	Portion 8 of Gemsbok Bult Farm 120
5.	Boven Solar PV2	Remaining Extent of Boven Rugzeer Farm 169
6.	Boven Solar PV3	Remaining Extent of Boven Rugzeer Farm 169
7.	Boven Solar PV4	Remaining Extent of Boven Rugzeer Farm 169

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, a full Scoping and EIA Process is required for the construction of the seven Solar PV facilities. In line with Regulation 12 of the 2014 EIA Regulations, the Council for Scientific and Industrial Research (CSIR) has been appointed by the Project Applicant to undertake the separate Scoping and EIA Processes for the proposed projects.

Since the proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity, an integrated PPP will be undertaken for the proposed seven projects. However, separate Applications for EA are currently being lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) for each proposed Scoping and EIA project. Furthermore, separate reports (i.e. Scoping and EIA Reports) will be compiled for each project.

Kindly complete the enclosed Comment and Registration Form in order to submit any comments, issues or concerns you may have. Please submit the completed form to the CSIR Project Leader, Minnelise Levendal, at the contact details provided above by 24 November 2015. Hard copies of the Scoping Reports are also available for public viewing at the Kenhardt Library (in Park Street) The Scoping Reports can also be downloaded from the project website: http://www.csir.co.za/eia/MuliloSolar

In terms of the way forward, the Scoping Reports will be finalised subsequent to the 30-day comment period, and submitted to the National DEA for decision-making in line with Regulation 22 of the 2014 EIA Regulations. All issues identified and comments raised through the review of the Scoping Reports will be captured in an updated Issues and Responses Trail (as an appendix to the Scoping Report), for submission to the National DEA for decision-making. As a key stakeholder on the project database, you will be notified of the submission of the Scoping Reports to the National DEA for decision-making.

Please do not hesitate to contact us should you have any queries relating to the above.

Sincerely,

Paul Lochner (EAP-CSIR, EMS)

Mesonolal

Minnelise Levendal (Project Leader-CSIR-EMS)

Board members: Prof T. Majózi (Chairperson), Adv G. Badela, Ms P. Baleni, Dr P. Goyns, Dr A. Llobell, Dr R. Masango, Ms M. Maseko, Mr J. Netshitenzhe, Ms A. Noah, Prof M. Phakeng, Dr S. Sibisi (CEO) 7 OYears

### **Comment form**

SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED DEVELOPMENT OF SEVEN SOLAR PHOTOVOLTAIC OR CONCENTRATED PHOTOVOLTAIC (CPV) SOLAR FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (GEMSBOK SOLAR PV3-, PV4, PV5, PV6; AND BOVEN SOLAR PV2-, 3 & 4) ON PORTIONS 3 AND 8 OF GEMSBOK BULT FARM 120 AND ON THE REMAINING EXTENT OF BOVEN RUGZEER FARM 169

CSIR REFERENCE: EMS0106/MULILO/2015

PROJECT APPLICANT: MULILO RENEWABLE PROJECT DEVELOPMENTS (PTY) LTD

#### COMMENT AND REGISTRATION FORM

Name:	Telephone:
Organisation:	Fax:
Designation:	Email:
Physical address:	Postal address:
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Environmental Authorisation:  Please describe any issues or concerns you considered during the EIA Processes.	may have regarding the proposed seven Solar PV projects, which you think should b

Minnelise Levendal
CSIR
Postal Address: P. O. Box 320, Stellenbosch, 7599
Tel: 021 888 2495/2661
Fax: 021 888 2693
E-mail: mlevendal@csir.co.za
Project Website: http://www.csir.co.za/era/MuliloSolar



#### Proof of correspondence with I&APs for the release of the Scoping Report for comment

#### **List of REGISTERED LETTERS** Lys van GEREGISTREERDE BRIEWE (with an insurance option/met 'n versekeringsopsie) Full tracking and tracing/Volledige volg en spoor Name and address of sender: Enquiries/Navrae ShareCall Naam en adres van afsender:... CSIR STELLINBOSCH number/nommer 0800 111 502 www.postoffice.co.za Insured Affix Track and Trace customer copy Postage Name and address of addressee Service fee amount Versekerde bedrag Naam en adres van geadresseerde Verseke-Plak Volg-en-Spoor-Kliëntafskrif Posgeld Diensgeld ringsgeld REGISTERED LETTER MATHERIS, PEON DEDT & ETVIR & NATURE RC 069 405 067 ZA TE BAG X 6/02 KIMSTRILLY, 830/ CUSTOMER COPY 301826R REGISTERED LETTER with a domastic insurance option received and first 502 work aspector RC 069 405 084 ZA THORO BUTHELEZI, DEP. OF AGRI, FOR & FISH BAG X120, PETORA, 000/ CUSTOMER COPY 301028R REGISTERED LETTER (with a domestic insurance option insurance option RC 069 405 098 ZA 3 VATE BAG X120, PETORA, 0001 CUSTOMER COPY MINIST SITEME, AGRIC LAND REFORM & RUCAL DEV REGISTERED LETTER (with a domestic insurance opti sharecall 0850 111 502 www.sapp.com RC 069 405 107 ZA BAG X 5018, KIMBERLEY, 8300 CLISTOMER COPY 301028R Buys, NERGA. P.O. BOX 40343 REGISTERED LETTER RC 069 405 115 ZA CUSTOMER COPY 301028R REGISTERED LETTER Awith a domestic insurance option) Share Call 0860 111 502 wind. 1890, 003 RC 069 405 124 ZA X5012, KIMBERLEY, 8500 CUSTOMER COPY 301028R RC 069 405 138 ZA REGISTERED LETTER RC 069 405 141 ZA SUSTOMER COPY MANAGER REGISTERED LETTER RC 069 405 155 ZA CUSTOMER COPY StepH. S.A. CIVILAN AVIOTION AUTHOR REGISTERED LETTER (with a domestic insurance aption) SheraGall 0860 111 502 www.tapa.co.z. RC 069 405 328 ZA CUSTOMER COPY 301028R Total R Number of letters posted R R Totaal Getal briewe gepos Signature of client Handtekening van kliënt...... Date stamp S.A. POST OFFICE Signature of accepting officer ENBOSCH 7599 Handtekening van aanneembeamp The value of the contents of these letters is as indicated and compensation is not payable for a letter receive 26 OCT 2015 unconditionally. Compensation is limited to nR100,00. No compensation is payable without documenta proof. Optional insurance of up to R2 000,00 is available and applies to domestic registered letters only. FOLIO 7 Die waarde van die inhoud van hierdie briewe is soos aangedui en vergoeding sal nie betaal word vir 'n brief wat sonder voorbehoud ontvang word nie. Vergoeding is beperk tot R100,00. Geen vergoeding is sonder Datumstempel dokumentêre bewys betaalbaar nie. Opsionele versekering van tot R2 000,00 is beskikbaar en is slegs op binnelandse geregistreerde briewe van toepassing. 701248 GOOD IMPRESSIONS

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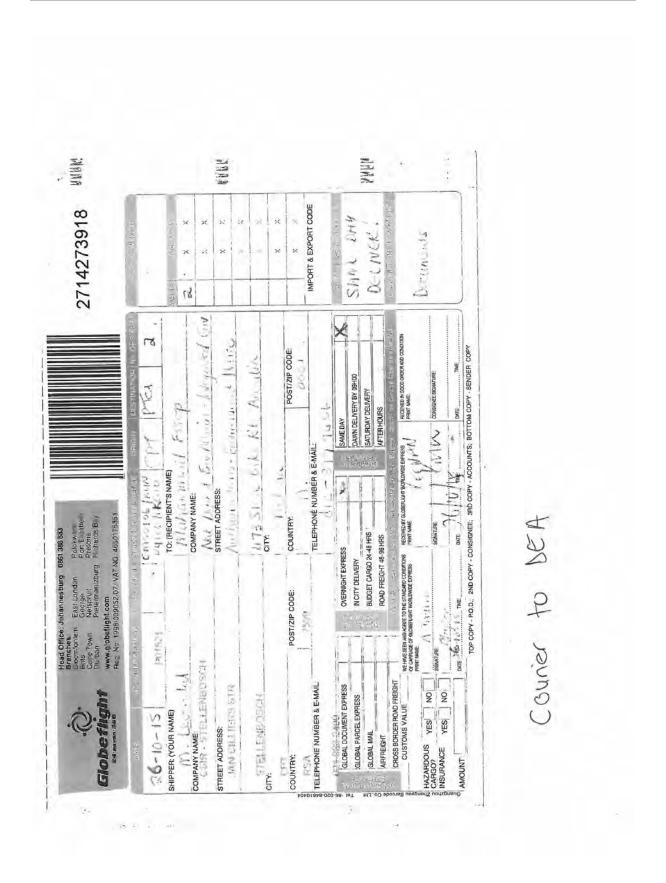
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Provincial Department of Environment
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Private Bag X6102 Kimberley
8300

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H.T Scheepers |Kheis Municipality - Municipal Manager Private Bag X2, Oranje Street 97, Groblershoop 8850

Melinda Mei Department of Water and Sanitation Private Bag X5912 Upington 8800

Ms Mashudu Marubini Department of Agriculture, and Fisheries - Delegate of the Minister (Act 70 of 1970) Private Bag X120, Pretoria 0001

Pieter Buys National Energy Regulator of South Africa (NERSA) PO Box 40343, Arcadia 0007

Mr. Riaan Warie Northern Cape Economic Development Agency 227 Du Toitspan Road, Belgravia, Kimberley 8301

Anneliza Collett
Department of Agriculture, Forestry and
Fisheries - AgriLand Liaison office
Private Bag X120
Pretoria
0001

Mr Andrew Timothy Directorate Heritage, Department -Sports, Arts and Culture P. O. Box 1930, Kimberley 8300 Jenna Lavin SAHRA PO Box 4637 Cape Town, 8000 Ratha Timothy NBKB PO Box 1930, Kimberley, 8300

Kabelo Ledwaba South African Civilian Aviation Authority Private Bag X73 Halfway House 1685 Lizell Stroh South African Civilian Aviation Authority Private Bag X73 Halfway House 1685 John Geeringh ESKOM P.O.Box 1091 Johannesburg 2167

Ms Nicole Abrahams SANRAL Western Region Private Bag X19 Bellville 7535

Sharon Steyn Northern Cape Chamber of Commerce and Industry PO Box 350, Kimberley 8300 Mr Henning Myburg Agri Northern Cape PO Box 1094, Kimberly 8300

Lyney Merrington SKA SA 3rd Floor, The Park, Park Road, Pinelands, 7405, South Africa Adrian Tiplady SKA SA 17 Baker Street Rosebank Johannesburg South Africa 2196 Elizabeth Govender Transnet PO Box 1027, Durban 4001

The Director Department of Energy Nothern Cape Private Bag X6093 Kimberley, 8300 Simon Gear Birdlife South Africa PO Box 515 Randburg, 2194 Lubabalo Ntsolo C.A.P.E. co-ordination unit: Northern Cape Private Bag X7, Claremont, 7735

Suzanne Erasmus WESSA PO Box 316, Kimberly 8300 Dr. Howard Hendricks South African National Parks (SANParks) - Snr GM: Policy & Governance Conservation Services Division PO Box 787, Pretoria, 0001 Rudolph Grobler PO Box 41, Keimos 8860

Ernest Connan Ernest Connan Trusl PO Box 290, Upington, 8800 Johan Steenkamp JHJ Steenkamp Trust JHJ Steenkamp Trust PO Box 3267 Upington 8800 Shaun Cloete Department of Water and Sanitation Private Bag X6120 H Myburg Agri-Northern Cape PO Box 1094 Kimberley 8300 Dineo Moleko Private Bag X6102 Kimberley Kimberley 8301 8300 Samantha De La Fontaine Dept of Env and Nature Conservation: NC Provincial Building First Floor Cnr of River and Nelson Mandela Rd Marina Lourens Transnet Freight Rail PRIVATE BAG X 11 Ms Justine Wyngaardt Eskom Eskom Road VREDENBURG Brackenfell WG Upington 8800 7561

#### Emails sent to all I&APs to notify them of the release of the Scoping Report for comment

>>> Minnelise Levendal 23/10/2015 17:57 >>>

Dear Stakeholders and Interested and Affected Parties

#### RELEASE OF SCOPING REPORT FOR COMMENT

SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED DEVELOPMENT OF SEVEN SOLAR PHOTOVOLTAIC OR CONCENTRATED PHOTOVOLTAIC (CPV) SOLAR FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (GEMSBOK SOLAR PV3-, PV4, PV5, PV6; AND BOVEN SOLAR PV2-, 3 & 4) ON PORTIONS 3 AND 8 OF GEMSBOK BULT FARM 120 AND ON THE REMAINING EXTENT OF BOVEN RUGZEER FARM 169

**<u>Competent Authority:</u>** National Department of Environmental Affairs

#### CSIR REFERENCE: EMS0106/MULILO/2015

This e-mail correspondence serves to inform you of the release of seven Scoping Reports for a 30-day commenting period ending on **24 November 2015** for the proposed Solar PV Facilities and associated electrical infrastructure near Kenhardt in the Northern Cape (CSIR Reference Number: EMS0106/MULILO/2015).

Mulilo Renewable Project Developments (PTY) LTD (Mulilo) intends to develop seven Solar PV Facilities of 75 MW each and associated electrical infrastructure (132 kV transmission lines for each 75 MW facility) on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining Extent of Boven Rugzeer Farm 169 near Kenhardt in the Northern Cape. The seven projects are indicated in Table 1.

Table1: Seven Preferred Solar PV Facilities proposed by Mulilo near Kenhardt in the Northern Cape

No	Solar PV Project	Project Site
1.	Gemsbok Solar PV3	Portion 3 of Gemsbok Bult Farm 120
2.	Gemsbok Solar PV4	Portion 3 of Gemsbok Bult Farm 120
3.	Gemsbok Solar PV5	Portion 8 of Gemsbok Bult Farm 120
4.	Gemsbok Solar PV6	Portion 8 of Gemsbok Bult Farm 120
5.	Boven Solar PV2	Remaining Extent of Boven Rugzeer Farm 169
6.	Boven Solar PV3	Remaining Extent of Boven Rugzeer Farm 169
7.	Boven Solar PV4	Remaining Extent of Boven Rugzeer Farm 169

Since the proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity, an integrated PPP will be undertaken for the proposed seven projects. However, separate Applications for EA are currently being lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) for each proposed Scoping and EIA project. Furthermore, separate reports (i.e. Scoping and EIA Reports) will be compiled for each project.

Please find attached the following:

- Executive Summary of each Scoping Report (please note due to mailbox size limitations I will email these in two emails-attached are the ones for Boven Solar);
- Letter 2 to I&APs; and

• Comment and Registration Form.

Hard copies of the Scoping Reports are also available for public viewing at the Kenhardt Library (in Park Street) The Scoping Reports can also be downloaded from the project website: <a href="http://www.csir.co.za/eia/MuliloSolar">http://www.csir.co.za/eia/MuliloSolar</a>

Kindly complete the enclosed Comment and Registration Form in order to submit any comments, issues or concerns you may have. Please submit the completed form to the CSIR Project Leader, Minnelise Levendal, at the contact details provided below by **24 November 2015**.

Thank you and kind regards,

Minnelise Levendal

**CSIR** - Environmental Management Services

P. O. Box 320, Stellenbosch, 7599

Tel: 021 888 2495/2661

Fax: 021 888 2693

Email: mlevendal@csir.co.za

SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED DEVELOPMENT OF SEVEN SOLAR PHOTOVOLTAIC OR CONCENTRATED PHOTOVOLTAIC (CPV) SOLAR FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (GEMSBOK SOLAR PV3-, PV4, PV5, PV6; AND BOVEN SOLAR PV2-, 3 & 4) ON PORTIONS 3 AND 8 OF GEMSBOK BULT FARM 120 AND ON THE REMAINING EXTENT OF BOVEN RUGZEER FARM 169

CSIR REFERENCE: EMS0106/MULILO/2015

#### PROJECT APPLICANT: MULILO RENEWABLE PROJECT DEVELOPMENTS (PTY) LTD

#### COMMENT AND REGISTRATION FORM

23 October 2015

Organisation: Designation: Physical address:	Fax: Email:
	Email:
hysical address:	
	Postal address:
done so already). Registration is required in order to re ick the appropriate box. YES NO	erested and Affected Party (I&AP) for the proposed projects (if you have n eceive further correspondence during the Scoping and EIA Processes. Please and EIA Processes and EIA Processes and EIA Processes.
Environmental Authorisation:	anciar, personal or other) in the proposed projects and/or the Applications i
Please describe any issues or concerns you may have considered during the EIA Processes.	e regarding the proposed seven Solar PV projects, which you think should I
onsidered during the EIA Processes.	
Please provide details of any other individuals or organ	isations that should be registered as I&APs

CSIR
Postal Address: P. O. Box 320, Stellenbosch, 7599
Tel: 021 888 2495/2661
Fax: 021 888 2693

Project Website: http://www.csir.co.za/era/MüliloSolar

Minnelise Levendal



CSIR Environmental Management Services

PO Box 320, Stellenbosch, 7599 Tel: +27 21 888 2495 Fax: +27 21 888 2693 Email: mlevendal@csir.co.za

23 October 2015

Dear Interested and Affected Party

RE: RELEASE OF SCOPING REPORTS FOR THE PROPOSED DEVELOPMENT OF SEVEN SOLAR PHOTOVOLTAIC (PV) FACILITIES (REFERRED TO AS GEMSBOK SOLAR PV3, GEMSBOK SOLAR PV4, GEMSBOK SOLAR PV5 AND GEMSBOK SOLAR PV6; AS WELL AS BOVEN SOLAR PV2, BOVEN SOLAR PV3 AND BOVEN SOLAR PV4) ON PORTIONS 3 AND 8 OF GEMSBOK BULT FARM 120 AND THE REMAINING EXTENT OF BOVEN RUGZEER FARM 169, NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (CSIR REFERENCE: EMS0102/SCATEC/2015)

As an Interested and Affected Party on our database, you are hereby notified of the release of the seven Scoping Reports for a 30-day commenting period ending on 24 November 2015 for the seven Solar PV Facilities and associated electrical infrastructure near Kenhardt in the Northern Cape (CSIR Reference Number: EMS0106/MULILO/2015).

Mulilo Renewable Project Developments (PTY) LTD (Mulilo) intends to develop seven Solar PV Facilities of 75 MW each and associated electrical infrastructure (132 kV transmission lines for each 75 MW facility) on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining Extent of Boven Rugzeer Farm 169 near Kenhardt in the Northern Cape. The seven projects are indicated in Table 1.

Table1: Seven Preferred Solar PV Facilities proposed by Mulilo near Kenhardt in the Northern Cape

NS	Solar PV Project	Project Site
1_	Gemsbok Solar PV3	Portion 3 of Gemsbok Bult Farm 120
2	Gemsbok Solar PV4	Portion 3 of Gemsbok Bult Farm 120
3.	Gemsbok Solar PV5	Portion 8 of Gernsbok Bult Farm 120
4	Gemsbok Solar PV6	Portion 8 of Gemsbok Bult Farm 120
5.	Boven Solar PV2	Remaining Extent of Boven Rugzeer Farm 169
6.	Boven Solar PV3	Remaining Extent of Boven Rugzeer Farm 169
7.	Boven Solar PV4	Remaining Extent of Boven Rugzeer Farm 169

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, a full Scoping and EIA Process is required for the construction of the seven Solar PV facilities. In line with Regulation 12 of the 2014 EIA Regulations, the Council for Scientific and Industrial Research (CSIR) has been appointed by the Project Applicant to undertake the separate Scoping and EIA Processes for the proposed projects.

Since the proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity, an integrated PPP will be undertaken for the proposed seven projects. However, separate Applications for EA are currently being lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) for each proposed Scoping and EIA project. Furthermore, separate reports (i.e. Scoping and EIA Reports) will be compiled for each project.

Kindly complete the enclosed Comment and Registration Form in order to submit any comments, issues or concerns you may have. Please submit the completed form to the CSIR Project Leader, Minnelise Levendal, at the contact details provided above by 24 November 2015. Hard copies of the Scoping Reports are also available for public viewing at the Kenhardt Library (in Park Street) The Scoping Reports can also be downloaded from the project website: http://www.csir.co.za/eia/MuliloSolar

In terms of the way forward, the Scoping Reports will be finalised subsequent to the 30-day comment period, and submitted to the National DEA for decision-making in line with Regulation 22 of the 2014 EIA Regulations. All issues identified and comments raised through the review of the Scoping Reports will be captured in an updated Issues and Responses Trail (as an appendix to the Scoping Report), for submission to the National DEA for decision-making. As a key stakeholder on the project database, you will be notified of the submission of the Scoping Reports to the National DEA for decision-making.

Please do not hesitate to contact us should you have any queries relating to the above.

Sincerely

Paul Lochner (EAP-CSIR, EMS)

Mewonold

Minnelise Levendal (Project Leader-CSIR-EMS)

Board members: Prof T. Majozi (Chairperson), Adv G. Badela, Ms P. Baleni, Dr P. Goyns, Dr A. Llobell, Dr R. Masango, Ms M. Maseko, Mr J. Netshitenzhe, Ms A. Noah, Prof M. Phakeng, Dr S. Sibisi (CEO) 70 Years

From: Minnelise Levendal [mailto:MLevendal@csir.co.za]

Sent: 23 October 2015 05:57 PM

To: aditeme@agri.ncape.gov.za; ncagric@worldonline.co.za.ontvang@agric.co.za; hendri@aheadtrading.co.za; advocacy@birdlife.org.za; fpr@bodr.gov.za; strohl@caa.co.za; JacolineMa; MashuduMa; NhlakaD; ThokoB; ernest.connan@donco.co.za; MeiM@dwa.gov.za; CloeteS@dws.gov.za; messop@environment.gov.za; MRabothata@environment.gov.za; GeerinJH@eskom.co.za; HaarhL@eskom.co.za; LeaskK@eskom.co.za; WyngaaJO@eskom.co.za; wep@ewt.org.za; dewee@gmail.com; myrenb91@gmail.com; straussdj@orientis.co.za/ameliastrauss2@gmail.com; proptransnc@gmail.com; ratha.timothy@gmail.com; sdelafontaine@gmail.com; ivandewee@gmail.com; admin@grasslands.org.za; mm@kaigarib.gov.za; MelanieM@L2B.co.za; monica.lepheane@labour.gov.za; Enelge.Gildenhuys@mainstreamrp.com; karen@mulilo.com; andre.vanniekerk10@gmail.com/kraaines@mweb.co.za; mmathews@ncpg.gov.za; mndzillili@ncpg.gov.za; nyaphi@ncpg.gov.za; rwarie@ncpg.gov.za; smbanjwa@ncpg.gov.za; AnnelizaC; peter.buys@nersa.org.za; sharon@nocci.co.za; AbrahamsN@nra.co.za; waltjc@nra.co.za; Dekockr@nra.co.za; l.ntsolo@sanbi.org.za; howard.hendricks@sanparks.org; sb@siyanda.gov.za; atiplady@ska.ac.za; Clive.Stephenson@transnet.net; Gilbert.Nortier@transnet.net; Marina.Lourens@transnet.net; Mayvyn.Bhana@transnet.net; klawrence@trpw.ncape.gov.za; nico@tshwalec.co.za; claude@veroniva.co.za; teresascheepers@vodamail.co.za; jhjs@webmail.co.za; boozahunter@yahoo.com
Subject: Release of Scoping Reports for comment for seven solar PV Projects near Kenhardt for Mulilo

Dear Stakeholders and Interested and Affected Parties

#### RELEASE OF SCOPING REPORT FOR COMMENT

SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED DEVELOPMENT OF SEVEN SOLAR PHOTOVOLTAIC OR CONCENTRATED PHOTOVOLTAIC (CPV) SOLAR FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (GEMSBOK SOLAR PV3-, PV4, PV5, PV6; AND BOVEN SOLAR PV2-, 3 & 4) ON PORTIONS 3 AND 8 OF GEMSBOK BULT FARM 120 AND ON THE REMAINING EXTENT OF BOVEN RUGZEER FARM 169

Competent Authority: National Department of Environmental Affairs

csir reference: EMS0106/mulilo/2015

This e-mail correspondence serves to inform you of the release of seven Scoping Reports for a 30-day commenting period ending on 24 November 2015 for the proposed Solar PV Facilities and associated electrical infrastructure near Kenhardt in the Northern Cape (CSIR Reference Number: EMS0106/MULILO/2015).

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Table1: Seven Preferred Solar PV Facilities proposed by Mulilo near Kenhardt in the Northern Cape No

Solar PV Project

Project Site

1.

Gemsbok Solar PV3

Portion 3 of Gemsbok Bult Farm 120

2

Gemsbok Solar PV4

Portion 3 of Gemsbok Bult Farm 120

3.

Gemsbok Solar PV5

Portion 8 of Gemsbok Bult Farm 120

4.

Gemsbok Solar PV6

Portion 8 of Gemsbok Bult Farm 120

5.

Boven Solar PV2

Remaining Extent of Boven Rugzeer Farm 169

6.

Boven Solar PV3

Remaining Extent of Boven Rugzeer Farm 169

7.

Boven Solar PV4

Remaining Extent of Boven Rugzeer Farm 169

Since the proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity, an integrated PPP will be undertaken for the proposed seven projects. However, separate Applications for EA are currently being lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) for each proposed Scoping and EIA project. Furthermore, separate reports (i.e. Scoping and EIA Reports) will be compiled for each project.

Please find attached the following:

- \* Executive Summary of each Scoping Report (please note due to mailbox size limitations I will email these in two emails-attached are the ones for Boven Solar);
  - \* Letter 2 to I&APs; and
- \* Comment and Registration Form.

Hard copies of the Scoping Reports are also available for public viewing at the Kenhardt Library (in Park Street) The Scoping Reports can also be downloaded from the project website: http://www.csir.co.za/eia/MuliloSolar

Kindly complete the enclosed Comment and Registration Form in order to submit any comments, issues or concerns you may have. Please submit the completed form to the CSIR Project Leader, Minnelise Levendal, at the contact details provided below by 24 November 2015.

Thank you and kind regards,

Minnelise Levendal

CSIR - Environmental Management Services P. O. Box 320, Stellenbosch, 7599 Tel: 021 888 2495/2661

Fax: 021 888 2693

Email: mlevendal@csir.co.za<mailto:mlevendal@csir.co.za>

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From: Minnelise Levendal [mailto:MLevendal@csir.co.za]

Sent: 23 October 2015 06:01 PM

To: aditeme@agri.ncape.gov.za; ncagric@worldonline.co.za.ontvang@agric.co.za; hendri@aheadtrading.co.za; Carolyn Ah Shene-Verdoorn; fpr@bodr.gov.za; strohl@caa.co.za; JacolineMa@daff.gov.za; mashuduma@daff.gov.za; nhlakad@daff.gov.za; ThokoB@daff.gov.za; ernest.connan@donco.co.za; MeiM@dwa.gov.za; CloeteS@dws.gov.za; messop@environment.gov.za; MRabothata@environment.gov.za; John Geeringh; Lindi Haarhoff; Kevin Leask; Justine Wyngaardt; wep@ewt.org.za; dewee@gmail.com; myrenb91@gmail.com; straussdj@orientis.co.za/ameliastrauss2@gmail.com; proptransnc@gmail.com; ratha.timothy@gmail.com; sdelafontaine@gmail.com; ivandewee@gmail.com; admin@grasslands.org.za; mm@kaigarib.gov.za; MelanieM@L2B.co.za; monica.lepheane@labour.gov.za; Enelge.Gildenhuys@mainstreamrp.com; karen@mulilo.com; andre.vanniekerk10@gmail.com/kraaines@mweb.co.za; mmathews@ncpg.gov.za; mndzilili@ncpg.gov.za; nyaphi@ncpg.gov.za; rwarie@ncpg.gov.za; smbanjwa@ncpg.gov.za; annelizac@nda.agric.za; peter.buys@nersa.org.za; sharon@nocci.co.za; AbrahamsN@nra.co.za; waltjc@nra.co.za; Dekockr@nra.co.za; 1.ntsolo@sanbi.org.za; howard.hendricks@sanparks.org; sb@siyanda.gov.za; atiplady@ska.ac.za; Clive.Stephenson@transnet.net; Gilbert.Nortier@transnet.net; Marina.Lourens@transnet.net; Mayvyn.Bhana@transnet.net; klawrence@trpw.ncape.gov.za; nico@tshwalec.co.za; claude@veroniva.co.za; teresascheepers@vodamail.co.za; jhjs@webmail.co.za; boozahunter@yahoo.com
Subject: Part 2 Release of Scoping Reports for comment for seven solar PV Projects near Kenhardt for Mulilo

Dear Stakeholders and Interested and Affected Parties

As explained in my previous email below (please read my first email notification as well), please find attached the Executive Summaries for the proposed Gemsbok Solar PV3, PV4, PV5 and PV6 projects. I am sending these separately due to mailbox size limitations.

Best wishes, Minnelise
>>> Minnelise Levendal 23/10/2015 17:57 >>>
Dear Stakeholders and Interested and Affected Parties

#### RELEASE OF SCOPING REPORT FOR COMMENT

SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED DEVELOPMENT OF SEVEN SOLAR PHOTOVOLTAIC OR CONCENTRATED PHOTOVOLTAIC (CPV) SOLAR FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (GEMSBOK SOLAR PV3-, PV4, PV5, PV6; AND BOVEN SOLAR PV2-, 3 & 4) ON PORTIONS 3 AND 8 OF GEMSBOK BULT FARM 120 AND ON THE REMAINING EXTENT OF BOVEN RUGZEER FARM 169

Competent Authority: National Department of Environmental Affairs

csir reference: EMS0106/mulilo/2015

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Mulilo Renewable Project Developments (PTY) LTD (Mulilo) intends to develop seven Solar PV Facilities of 75 MW each and associated electrical infrastructure (132 kV transmission lines for each 75 MW facility) on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining Extent of Boven Rugzeer Farm 169 near Kenhardt in the Northern Cape. The seven projects are indicated in Table 1.

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Solar PV Project

Project Site

1.

Gemsbok Solar PV3

Portion 3 of Gemsbok Bult Farm 120

2.

Gemsbok Solar PV4

Portion 3 of Gemsbok Bult Farm 120

3.

Gemsbok Solar PV5

Portion 8 of Gemsbok Bult Farm 120

4.

Gemsbok Solar PV6

Portion 8 of Gemsbok Bult Farm 120

5.

Boven Solar PV2

Remaining Extent of Boven Rugzeer Farm 169

6.

Boven Solar PV3

Remaining Extent of Boven Rugzeer Farm 169

7

Boven Solar PV4

Remaining Extent of Boven Rugzeer Farm 169

Since the proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity, an integrated PPP will be undertaken for the proposed seven projects. However, separate Applications for EA are currently being lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) for each proposed Scoping and EIA project. Furthermore, separate reports (i.e. Scoping and EIA Reports) will be compiled for each project.

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- \* Letter 2 to I&APs; and
- \* Comment and Registration Form.

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Kindly complete the enclosed Comment and Registration Form in order to submit any comments, issues or concerns you may have. Please submit the completed form to the CSIR Project Leader, Minnelise Levendal, at the contact details provided below by 24 November 2015.

Thank you and kind regards,

Minnelise Levendal

CSIR - Environmental Management Services P. O. Box 320, Stellenbosch, 7599

Tel: 021 888 2495/2661 Fax: 021 888 2693

Email: mlevendal@csir.co.za<mailto:mlevendal@csir.co.za>

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#### Letter 1: Notification of the BA, Scoping and EIA Processes

P. O. Box 320, Stellenbosch, 7599 Tel: 021 888 2495 Fax: 021 888 2693 Email: mlevendal@csir.co.za



9 September 2015

Dear Interested and Affected Party

RE: NOTICE OF SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED DEVELOPMENT OF SEVEN SOLAR PHOTOVOLTAIC OR CONCENTRATED PHOTOVOLTAIC FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (CSIR REFERENCE: EMS0106/MULILO/2015)

Mulilo Renewable Project Developments (Pty) (Ltd) (hereafter referred to as "Mulilo") proposes to construct and operate seven Photovoltaic (PV) or Concentrated Photovoltaic (CPV) Solar Facilities with a generating capacity of 75 MW each and associated electrical infrastructure (132 kV transmission lines for each 75 MW facility), on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining extent of Boven Rugzeer Farm 169, located 30 km north-east of Kenhardt. Two of the projects will be located on Portion 3-, two projects on Portion 8 of Gemsbok Bult Farm 120 and three projects on the Remaining Extent of Boven Rugzeer Farm 169. Each 75 MW Solar PV facility proposed will cover an approximate area of 200 hectares (ha) with a collective footprint of approximately 1 400 ha and a combined power generation capacity of 525 MW. The proposed projects will entail the construction of the solar field, buildings, electrical infrastructure, internal access roads, and associated infrastructure and structures.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA)) and the 2014 NEMA EIA Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, the proposed projects require a full Scoping and EIA Process for the construction of the seven Solar PV facilities. The CSIR has been appointed by Mulilo to undertake the requisite Scoping and EIA Processes for the proposed projects.

Since the proposed seven 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity, an integrated Public Participation Process will be undertaken for the proposed projects. However, separate Applications for Environmental Authorisation will be lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) for each proposed 75 MW Solar PV facility and transmission line., which will be referred to as Gemsbok Solar PV3, Gemsbok Solar PV4, Gemsbok Solar PV5, Gemsbok Solar PV6, Boven Solar PV2, Boven Solar PV3 and Boven Solar PV4. One integrated Scoping Report will be compiled for all seven projects, but seven separate EIA Reports will be

In line with this, notice is hereby given that Scoping and EIA Processes will be undertaken for the proposed 75 MW Solar PV facilities and transmission lines.

Please find enclosed, a Background Information Document (including a Comment and Registration Form), which provides an overview of the proposed projects, as well as the potential listed activities that form part of the Scoping and EIA Processes and require Environmental Authorisation from the National DEA. The proposed projects potentially trigger the following listed

- GN R983: Activity 11 (i); 12 (x) and 12 (xii); Activity 19 (i); Activity 24 (ii) and Activity 28 (ii);
- GN R984: Activity 1 and Activity 15; and GN R985: Activity 12 (d)

A comment and registration period of 30 days has been allocated for the review of the Background Information Document, for the submission of any issues or concerns, and for the registration of I&APs (which requires the completion of the enclosed Comment and Registration Form). Kindly complete the enclosed Comment and Registration Form and submit it to the CSIR at the contact details provided above by 10 October 2015. All comments received during this 30 day period will be recorded and included in the

Kindly note that available project information can be accessed at the following website: http://www.csir.co.za/eia/MuliloSolar

Should you have any queries or require additional information please do not hesitate to contact the undersigned (CSIR Project Manager) using the contact details provided above

Sincerely.

Minnelise Levendal

Mevenda

Project Manager: CSIR Environmental Management Services

#### **Comment and Registration Form sent with Letter 1**

SCOPING AND ENVIRONMENTAL IMPACT ASSESSMENT (EIA) FOR THE PROPOSED DEVELOPMENT OF SEVEN SOLAR PHOTOVOLTAIC OR CONCENTRATED PHOTOVOLTAIC (CPV) SOLAR FACILITIES AND ASSOCIATED ELECTRICAL INFRASTRUCTURE NORTH-EAST OF KENHARDT, NORTHERN CAPE PROVINCE (GEMSBOK SOLAR PV3-, PV4, PV5, PV6; AND BOVEN SOLAR PV2-, 3 & 4)

CSIR REFERENCE: EMS0106/MULILO/2015

Project Applicant: Mulilo Renewable Project Developments (Pty) Ltd

#### **COMMENT AND REGISTRATION FORM**

9 September 2015

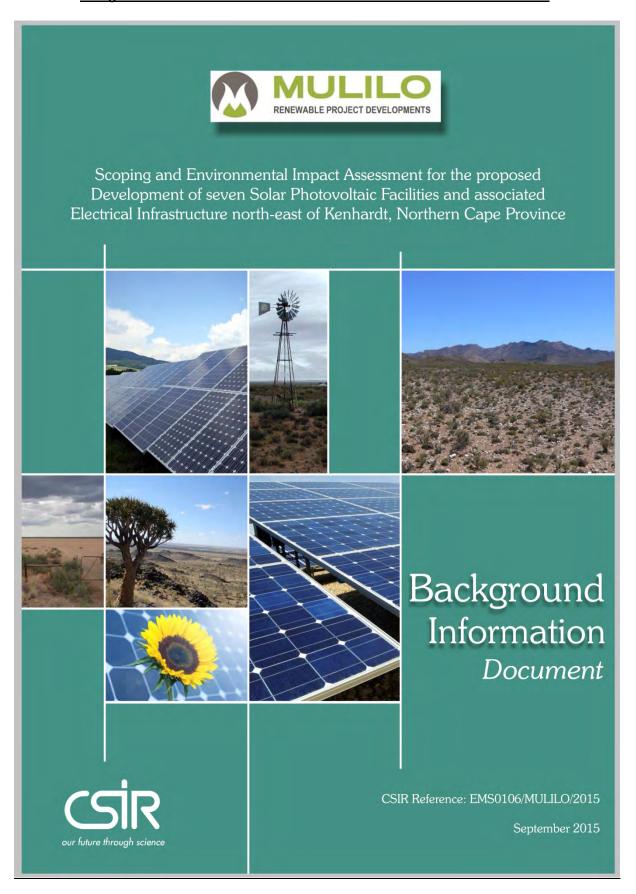
Name:	Telephone:
Organisation:	Fax:
Designation:	Email:
Physical address:	Postal address:
	Interested and Affected Party (I&AP) for the proposed projects. Registration is during the Scoping and EIA Processes. Please tick the appropriate box.
NO YES	
	nave regarding the seven proposed solar photovoltaic projects, which you think rocesses.
Please describe any issues or concerns you may he should be considered during the Scoping and EIA Properties of the Scoping and EIA Properties	rocesses.

Please complete this Comment and Registration Form by no later than 10 October 2015 and submit it to:

Minnelise Levendal
CSIR
Postal Address: P. O. Box 320, Stellenbosch, 7599
Tel: 021 888 2495/2661
Fax: 021 888 2693
E-mail: mlevendal@csir.co.za
Project Website: http://www.csir.co.za/eia/MuliloSolar



#### **Background Information Document sent with Letter 1 and email notifications**



Scoping and Environmental Impact Assessment for the proposed Development of seven Solar Photovoltaic Facilities and associated Electrical Infrastructure north-east of Kenhardt, Northern Cape Province

## 1. INTRODUCTION TO THE PROPOSED PROJECT

Mulilo Renewable Project Developments (Pty) Ltd (hereinafter referred to as "Mulilo") proposes to construct and operate seven Photovoltaic (PV) or Concentrated Photovoltaic (CPV) Solar Facilities with a generating capacity of 75 MW each and associated electrical infrastructure (132 kV transmission lines for each 75 MW facility), on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining Extent of Boven Rugzeer Farm 169 located 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. Two of the projects will be located on Portion 3-, two projects on Portion 8 of Gemsbok Bult Farm 120 and three projects on the Remaining Extent of Boven Rugzeer Farm 169 north-east of Kenhardt. The proposed facilities will connect to the substation which will be located on the Remaining Extent of Portion 3 of Gemsbok Bult Farm 120.

Mulilo is a locally owned, South African based renewable energy developer that was formed in 2008. The company focuses on solar, wind and hydro technologies and works with landowners, project developers, technology providers, regulators and investors to source and develop renewable energy projects.

Each 75 MW Solar PV facility proposed by Mulilo will cover an approximate area of 200 hectares (ha) and will be constructed adjacent to each other (with a collective footprint of approximately 1 400 ha and a combined power generation capacity of 525 MW). The proposed projects are located in proximity to the Eskom Nieuwehoop Substation (which is currently being constructed on the farm Gemsbok Bult (Remaining Extent of Portion 3 of Farm 120)). Each proposed 132 kV transmission line will link to the Eskom Nieuwehoop Substation.

Separate Applications for Environmental Authorisation (EA) will be lodged with the Competent Authority (i.e. the National Department of Environmental Affairs (DEA)) for each proposed 75 MW Solar PV facility and transmission line. Mulilo has identified seven sites and potential projects with alternatives and transmission lines (see Table 1 at the end of the page).

Figure 1 shows the proposed preferred project sites, the alternative sites and the transmission lines. The proposed project is located directly alongside the proposed Nieuwehoop Solar Development of Mulilo (Phase 1), which is currently undergoing an Environmental Impact Assessment (EIA). The alternative sites will be considered as part of the EIA process.

In terms of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA) and the 2014 NEMA Environmental Impact Assessment (EIA) Regulations promulgated in Government Gazette 38282 and Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014, the proposed projects (solar PV facilities and its associated powerlines) require a full Scoping and EIA Process for the construction of the seven Solar PV facilities. The CSIR has been appointed to undertake the EIA Process for the proposed projects.

Since the proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity, an integrated Public Participation Process (PPP) will be undertaken for the proposed projects. One integrated Scoping Report will be submitted to DEA (covering all seven projects). However, seven separate EIA reports will be submitted to DEA for decision-making.

Table 1: Proposed 7 Solar PV Projects and locations

	Solar PV Project	Project Site
	Gemsbok Solar PV3	Portion 3 of Gemsbok Bult 120 Farm
	Gemsbok Solar PV4	Portion 3 of Gemsbok Bult 120 Farm
3.	Gemsbok Solar PV5	Portion 8 of Gemsbok Bult 120 Farm
1.	Gemsbok Solar PV6	Portion 8 of Gemsbok Bult 120 Farm
j.	Boven Solar PV2	Remaining Extent of Boven Rugzeer 169
5.	Boven Solar PV3	Remaining Extent of Boven Rugzeer 169
7.	Boven Solar Pv4	Remaining Extent of Boven Rugzeer 169

p.2

Scoping and Environmental Impact Assessment for the proposed Development of seven Solar Photovoltaic Facilities and associated Electrical Infrastructure north-east of Kenhardt, Northern Cape Province

#### 2. NEED AND JUSTIFICATION FOR THE PROPOSED PROJECTS

At a national level, South Africa is facing serious electricity shortages as well as water scarcity. Linked to this, the proposed projects aim to supply additional electricity to the national grid. Furthermore, the urgent need to reduce greenhouse gas emissions and the importance of a secure and diversified energy supply has resulted in a global shift towards, and an increased focus on, the use of renewable energy technologies. In South Africa, national government has encouraged the utilisation of renewable energy through national policy and strategic planning. The objective is to expand electricity generation capacity in South Africa and promote the practice of sustainable development.

The Integrated Resource Plan for South Africa for the period 2010 to 2030 (hereinafter referred to as "IRP 2010") was released by government in 2010 (with an Updated Report, dated 2013) and proposes to develop and secure 17 800 MW of renewable energy capacity by 2030 (including wind, solar and other energy sources). The Department of Energy (DoE) is currently entered into a bidding process, i.e. the Renewable Independent Power Producer Procurement Programme (REIPPPP), for the procurement of 3725 MW of renewable energy from Independent Power Producers (IPP) by 2016 and beyond to enable the Department to meet this target. Subsequent to this, an additional target of 6 300 MW from renewable energy sources was added to the REIPPPP as published in Government Gazette No. 39111 of 18 August 2015. The additional target allocated for wind energy is 3040 MW and 2 200 MW for solar photovoltaic.

The two main evaluation criteria for compliant proposals are price and economic development, with other selection criteria including technical feasibility and grid connectivity, environmental acceptability, black economic empowerment, community development, and local economic and manufacturing propositions. The bidders with the highest rankings (according to the aforementioned criteria) are appointed as "Preferred Bidders" by the

The proposed projects aim to contribute to the above strategic imperative.

#### 3. WHAT DOES THIS DOCUMENT **TELL YOU?**

This Background Information Document (BID) provides you, as an Interested and Affected Party (I&AP), with:

- Background information on the proposed projects:
- A description of the EIA and Public Participation Process that will be undertaken for the proposed projects: and
- Details on how to register your interest in the projects and receive further information.

As a registered I&AP, there will be opportunities for you to be involved in the Scoping and EIA Processes through receiving information, registering your interest on the project database, raising issues of concern and commenting on reports. The input from I&APs, together with the information and assessment provided by the Environmental Assessment Practitioner and relevant specialists, will assist DEA with their decision-making in terms of whether to grant or refuse EA for the proposed projects.

#### 4. WHAT DO THE PROPOSED PROJECTS ENTAIL?

The locality map (Figure 1) included with this BID provides an overview of the proposed locality of the projects (including the alternatives sites for the projects) on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining Extent of Boven Rugzeer Farm 169 and their connection points to the substation on the Remaining Extent of Portion 3 of Gemsbok Bult Farm 120, north-east of Kenhardt in the Northern Cape. The proposed projects will take place on land owned by a third party, and as such consent has been obtained from the landowner. It is anticipated that the property on which the proposed projects will be constructed will be leased from the landowner.

Each Solar PV facility will consist of the components listed below. The components and their dimensions will be discussed within the integrated Scoping Report and the separate EIA Reports that will be produced for each facility:

Scoping and Environmental Impact Assessment for the proposed Development of seven Solar Photovoltaic Facilities and associated Electrical Infrastructure north-east of Kenhardt, Northern Cape Province

#### Solar Field

- Solar Arrays
- Building infrastructure
  - Offices:
  - Operational control centre;
  - Warehouse/workshop;
  - Ablution facilities; and
  - Converter station.

#### Associated Infrastructure

- Electrical infrastructure (including transmission lines and substations);
- Access roads;
- · Internal gravel roads;
- Fencing;
- · Operation and Maintenance Area;
- · Laydown Area;
- · Stormwater channels; and
- · Water pipelines.

## 5. ENVIRONMENTAL AUTHORISATION

In terms of the NEMA and the 2014 NEMA EIA Regulations published in GN R982, R983, R984 and R985 on 8 December 2014 in Government Gazette 38282, notice is hereby given that a Scoping and EIA Process is required as the proposed projects include, amongst others, the activities shown in Table 2. Table 2 indicates the applicable listed activities together with a summary of the listed activity in the context of the proposed project activities.

Table 2: Listed Activities for the Scoping and EIA Processes – Proposed 75 MW Solar PV Facilities

Relevant Notice and Activity Number	Description of the planned activity that relates to the applicable listed activity
GN R983: Activity 11 (i)	The proposed project will entail the construction and installation of a total of seven overhead transmission lines with a capacity of 132 kV each. One transmission line will be constructed for each 75 MW Solar PV facility. The proposed project will take place on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining Extent of Boven Rugzeer Farm 169 and the connection points to the substation will take place on the Remaining Extent of Portion 3 of Gemsbok Bult Farm 120, north-east of Kenhardt in the Northern Cape Province, outside an urban area.
GN R983: Activity 12 (x) and (xii)	Each proposed 75 MW Solar PV facility will entail the construction of building infrastructure and structures (such as the solar field, offices, workshops, ablution facilities, on-site substations, laydown areas and security enclosures). The buildings and infrastructure are expected to exceed a footprint of 100 m² and some of which are likely to occur within 32 m or a watercourse.
GN R983: Activity 19 (i)	The proposed project <u>may</u> entail the excavation, removal and moving of more than 5 m <sup>3</sup> of soil, sand, pebbles or rock from the nearby watercourse. The proposed project <u>may</u> also entail the infilling of more than 5 m <sup>3</sup> of material into the nearby watercourse.
GN R983: Activity 24 (ii)	The proposed project will entail the construction of internal access roads. These roads could possibly be wider than 8 m (without a road reserve).
GN R983: Activity 28 (ii)	The proposed project will take place on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining Extent of Boven Rugzeer Farm 169 and the connection points to the substatior will take place on the Remaining Extent of Portion 3 of Gemsbok Bult Farm 120, north-east of Kenhardt in the Northern Cape. It is understood that the land is currently used for agricultura purposes. The proposed projects (i.e. commercial/industrial development) will cover a tota combined footprint of approximately 1 400 ha.
GN R984: Activity 1	The proposed project will entail the construction of seven 75 MW Solar PV facilities with a total of 525 MW (i.e. facilities for the generation of electricity from a renewable resource). The proposed project will take place on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining Extent of Boven Rugzeer Farm 169 and the connection points to the substation will take place on the Remaining Extent of Portion 3 of Gemsbok Bult Farm 120, north-east of Kenhardt in the Northern Cape Province, outside an urban area.
GN R984: Activity 15	The total footprint of the proposed project is expected to be approximately 1 400 ha (i.e. 200 ha x 7 proposed 75 MW Solar PV facilities). As a result, more than 20 ha of indigenous vegetation could possibly be removed for the construction of the proposed Solar PV facilities.
GN R985: Activity 12 (d)	The proposed facility's development footprint will be 525 ha and therefore more than 300 square metres of indigenous vegetation will be removed.



p.4

Scoping and Environmental Impact Assessment for the proposed Development of seven Solar Photovoltai Facilities and associated Electrical Infrastructure north-east of Kenhardt, Northern Cape Province

#### Note from the CSIR:

It is also important to note that a precautionary approach has been adopted by the CSIR when identifying listed activities, in that if there is any doubt at this stage of the project planning whether or not an activity is included in the project design, then the activity is listed. This list may be refined during the course of the Scoping and EIA Processes, and listed triggers may be removed or added as applicable.

The applicable listed activities require EA from the National DEA. The Scoping and EIA Process needs to show the Competent Authority, the National DEA, and the project proponent, Mulilo, the consequences their choices will have on the biophysical, social and economic environment. The steps in the Scoping and EIA Process are outlined below.

#### 6. SCOPING AND EIA PROCESS

The Scoping and EIA Process being implemented can be summarised as follows:

#### Stage 1: Environmental Scoping:

This Scoping Process is being planned and conducted in a manner that is intended to provide sufficient information to enable the authorities to reach a decision regarding the scope of issues to be addressed in the EIA, and in particular to convey the range of specialist studies that will be included as part of the Environmental Impact Reporting Phase of the EIA, as well as the approach to these specialist studies. Within this context, the main objectives of this Scoping Process are to inter alia:

- Identify and inform a broad range of stakeholders about the proposed projects;
- Through a process of broad-based consultation with stakeholders, conduct an open, participatory and transparent Public Participation Process and facilitate the inclusion of any concerns and issues raised by stakeholders;
- Identify the relevant policies and legislation relevant to the proposed project;
- Provide the need and desirability of the proposed project, as well as the need and desirability of the project in the context of the preferred location;
- Identify and confirm the preferred activity, technology alternative, and preferred site (i.e.

- clarify the scope and nature of the proposed activities and the alternatives being considered):
- Identify and document the key issues to be addressed in the subsequent EIA Phase:
- Confirm the level of assessment required, impact assessment methodology, and the specialist input; and
- Identify suitable measures to avoid, manage or mitigate identified impacts and to determine the extent of the residual risks that need to be managed and monitored.

#### Stage 2: EIA:

The purpose of this stage of the EIA Process is to:

- Undertake specialist investigations to address the issues of concern that have been raised and identified through the Scoping Process;
- Assess reasonable and feasible alternatives that form part of the proposed project (including the No Go Option);
- Determine the policy and legislative context of the proposed project;
- Describe the need and desirability of the proposed project, as well as the need and desirability of the project in the context of the preferred location;
- Identify the location of the proposed development footprint within the preferred site;
- Identify the most ideal location for the proposed activity within the preferred site;
- Identify, determine and assess the significance of the predicted impacts in line with the accepted Plan of Study for EIA;
- Recommend management actions to enhance positive benefits or avoid/minimise potential negative impacts (based on specialist input);
- Identify residual risks that need to be managed and monitored.

The following specialist studies have been identified, at this stage, to form part of the EIA Phase of the proposed projects:

- Ecological Impact Assessment (including Terrestrial Ecology, Aquatic Ecology and Avifauna):
- Visual Impact Assessment;
- Heritage Impact Assessment (Archaeology and Cultural Landscape);



Scoping and Environmental Impact Assessment for the proposed Development of seven Solar Photovoltaic Facilities and associated Electrical Infrastructure north-east of Kenhardt, Northern Cape Province

- · Desktop Palaeontological Impact Assessment;
- · Soils and Agricultural Potential Assessment; and
- · Social Impact Assessment.

#### 7. PUBLIC PARTICIPATION PROCESS

Public involvement forms an important component of the Scoping and EIA Process by assisting in the identification of issues and alternatives to be evaluated. The following outlines the steps in the Public Participation Process. Please note that one integrated Public Participation process will be undertaken for all seven projects.

## Step 1: Notify Authorities and I&APs of the Scoping and EIA Processes (30 days)

The initial step entails providing notification to Authorities and potential I&APs of the proposed projects and the commencement of the Scoping and EIA Processes. An initial database of potential I&APs and Authorities will be compiled. Authorities and potential I&APs will be provided with a BID (i.e. this document), including a Comment and Registration Form and written notification. An advertisement will also be placed in a local newspaper during this phase. I&APs will be provided with a 30-day review period within which to raise any issues or concerns for inclusion in the Scoping Report. During this review period, I&APs are required to register their interest on the project database in order to be included from the outset of the Scoping and EIA Processes.

## Step 2: Preparation of Applications for EA, and Scoping Report

Separate Applications for EA for each proposed 75 MW Solar PV facility with its associated transmission line will be prepared (i.e. a total of seven applications will be prepared). In addition, the Scoping Report and Plan of Study for EIA will be compiled in line with Appendix 2 of the 2014 EIA Regulations (GN R982). Since the proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity, an integrated Scoping Process will be undertaken for the proposed seven projects. One integrated Scoping Report will be submitted to DEA (covering all seven projects). However, seven separate EIA reports will be submitted. All issues and concerns raised by the Authorities and I&APs

during the review of the BID will be recorded and compiled into an Issues and Responses Trail for inclusion in the Scoping Report.

#### Step 3: Submission of Applications for EA

Seven separate applications for EA for each proposed 75 MW Solar PV facility and transmission line (i.e. a total of seven applications) will be submitted to the National DEA for processing.

#### Step 4: Authority and I&AP Review of the Scoping Report (30 days)

The Scoping Report will be released to the public for a 30-day review period. All Authorities and registered I&APs on the project database will be notified in writing of the opportunity to review the Scoping Report. A Comment and Registration Form will also be sent with the written notification to all registered stakeholders. A copy of the Scoping Report will be placed on the project website (http://www.csir.co.za/eia/MuliloSolar), and at the Kenhardt public library.

#### Step 5: Submission of Scoping Report to the National DEA for Decision-Making

The comments received from I&APs during the 30-day review of the Scoping Report will be recorded into a comprehensive Issues and Responses Trail, and will be included in the Scoping Report before submission to the National DEA. The Scoping Report will thereafter be finalised and submitted to the National DEA for decision-making. All registered I&APs on the project database will be notified of the submission of the Scoping Report to DEA.

The National DEA will have 43 days (from receipt of the Scoping Report) to either accept the Scoping Report with or without conditions, or refuse EA.

#### Step 6: Undertake Specialist Studies and Preparation of EIA Reports (including the Environmental Management Programme (EMPr))

Once the National DEA accepts the Scoping Report, the Impact Assessment Phase may commence.

During this phase, the specialist studies (as listed above) will be undertaken and the EIA Reports (including the EMPr) will be compiled in line with the



Scoping and Environmental Impact Assessment for the proposed Development of seven Solar Photovoltaic Facilities and associated Electrical Infrastructure north-east of Kenhardt, Northern Cape Province

2014 EIA Regulations and the accepted Plan of Study for EIA.

As stated above, seven separate EIA reports will be prepared, i.e. one for each project.

## Step 7: Authority and I&AP Review of the EIA Reports and EMPr (30 days)

During this phase, the EIA Reports will be released to the public for a 30-day review period. All Authorities and registered I&APs on the project database will be notified in writing of the opportunity to review the EIA Reports. A Comment and Registration Form will also be sent with the written notification to all registered stakeholders. Copies of the EIA Reports will be placed on the project website <a href="http://www.csir.co.za/eia/MuliloSolar">http://www.csir.co.za/eia/MuliloSolar</a> and at the local public library.

#### Step 8: Submission of the EIA Reports to the National DEA for Decision-Making

A key component of the EIA Process is documenting and responding to the comments received from I&APs and Authorities. The comments received from I&APs during the 30-day review of the EIA Reports will be recorded into a comprehensive Comments and Responses Trail, and will be included in the EIA Reports before submission to the National DEA. The Comments and Responses Trail will indicate the nature of the comment, when and who raised the comment, as well as indicate how the comment received has been considered in the EIA Reports, in the project design or the EMPr. The EIA Reports will thereafter be finalised and submitted to the National DEA for decision making. All registered I&APs on the project database will be notified of the submission of the EIA Reports to the national DEA.

The National DEA will have 10 days (from receipt of the EIA Reports) to acknowledge the reports and will thereafter have 107 days to grant or refuse EA.

#### Step 9: Notification of Environmental Decision and Appeal Period

All registered stakeholders on the project database will be notified in writing of the Environmental Decision for the proposed projects, and will be informed of the opportunity to appeal.

#### **HOW CAN YOU GET INVOLVED?**

- By responding to our invitation for your involvement advertised in local newspapers.
- By mailing or faxing a Comment and Registration Form to the CSIR (contact details provided below).
- By telephonically contacting the CSIR if you have a query, comment, or require further project information.
- By reviewing the various reports within the stipulated comment periods provided.
- By attending any feedback meetings, which may be held during the review period.

#### **CSIR Contact Details:**

To register as an I&AP, please complete the Comment and Registration Form included with this BID and kindly return to:

Minnelise Levendal

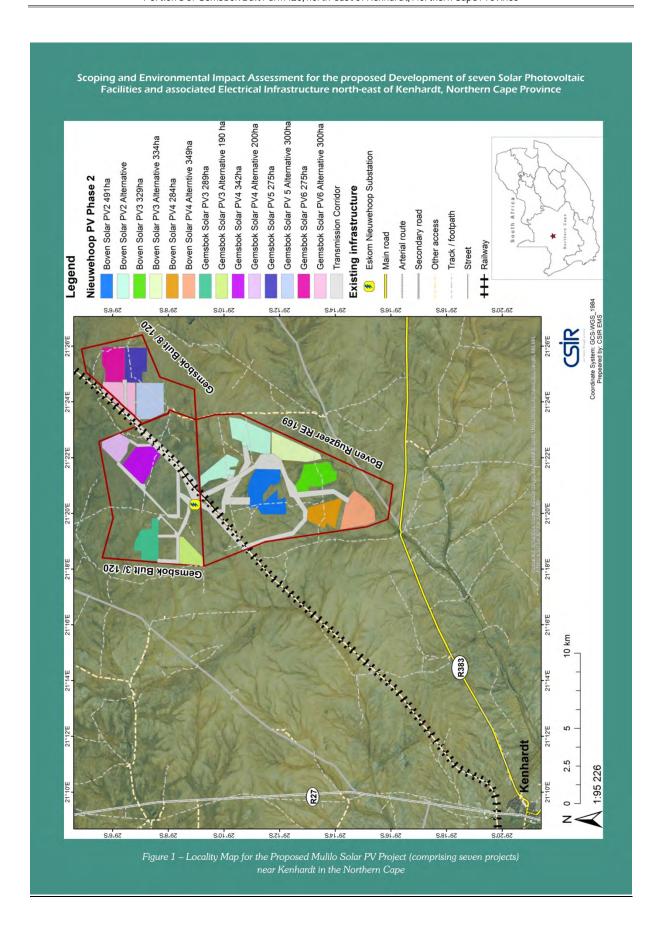
CSIR Email: mlevendal@csir.co.za Tel: 021 888 2495 Fax: 021 888 2693

Postal Address: P. O. Box 320, Stellenbosch, 7600









#### Proof of Correspondence with I&APs (Registered Mail Receipts for Letter 1)

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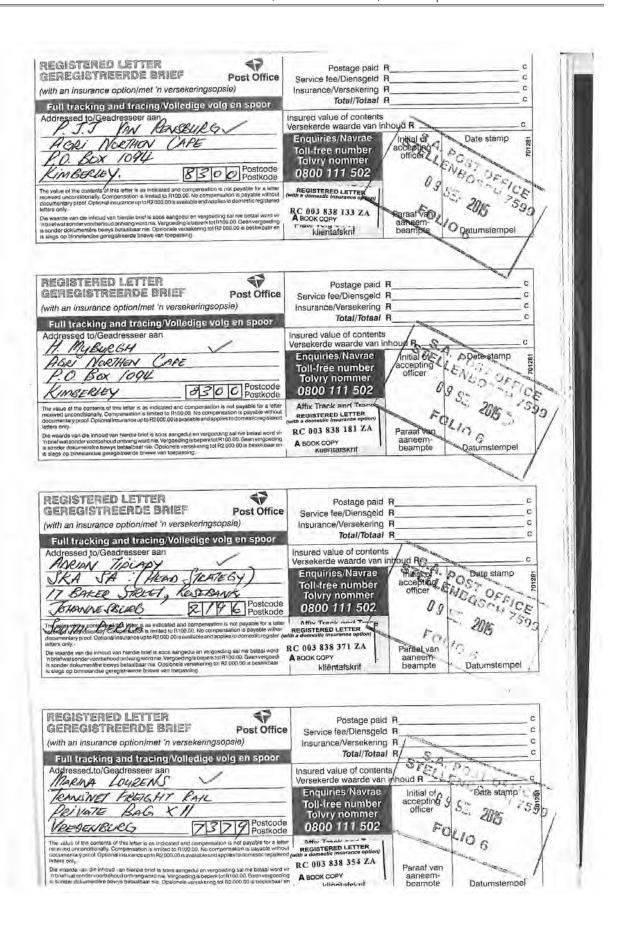
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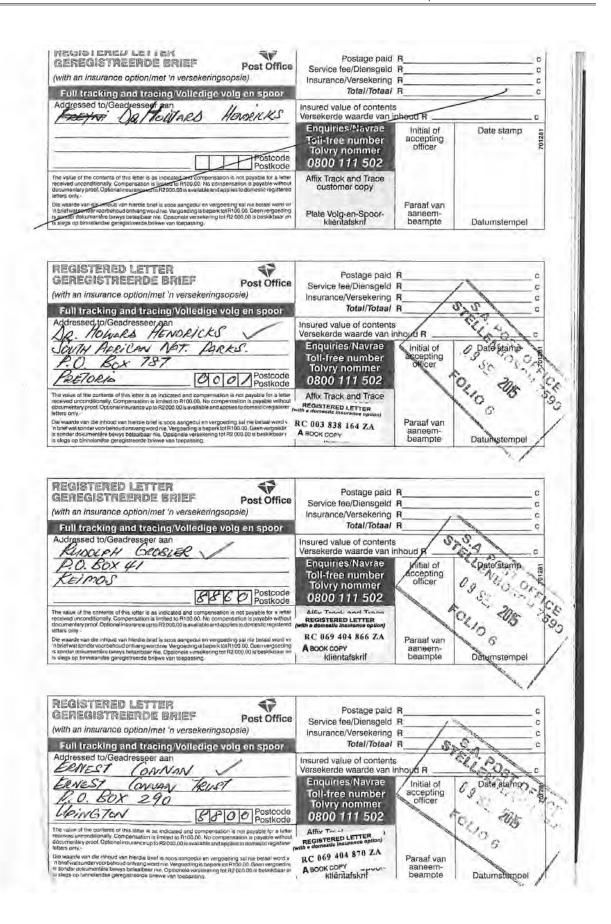
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#### Emails sent to all I&APs on 9 September 2015 (English and Afrikaans)

From: Minnelise Levendal

To:

Clive.Stephenson@transnet.net; CloeteS@dws.gov.za; GeerinJH@eskom.co.za; Gilbert.Nortier@transnet.net; HaarhL@eskom.co.za; JacolineMa@daff.gov.za; LeaskK@eskom.co.za; MRabothata@environment.gov.za; Marina.Lourens@transnet.net; Mayvyn.Bhana@transnet.net; MeiM@dwa.gov.za; Minnelise Levendal; ThokoB@daff.gov.za; WyngaaJO@eskom.co.za; aditeme@agri.ncape.gov.za; admin@grasslands.org.za; advocacy@birdlife.org.za; andre.vanniekerk10@gmail.com/ kraaines@mweb.co.za; annelizac@nda.agric.za; atiplady@ska.ac.za; boozahunter@yahoo.com; ernest.connan@donco.co.za; fpr@bodr.gov.za; hendri@aheadtrading.co.za; howard.hendricks@sanparks.org; jhjs@webmail.co.za; klawrence@trpw.ncape.gov.za; l.ntsolo@sanbi.org.za; mashuduma@daff.gov.za; messop@environment.gov.za; mm@kaigarib.gov.za; mmathews@ncpg.gov.za; mndzilili@ncpg.gov.za; monica.lepheane@labour.gov.za; ncagric@worldonline.co.za ontvang@agric.co.za; nhlakad@daff.gov.za; nyaphi@ncpg.gov.za; peter.buys@nersa.org.za; ratha.timothy@gmail.com; rwarie@ncpg.gov.za; sb@siyanda.gov.za; sdelafontaine@gmail.com; sharon@nocci.co.za; smbanjwa@ncpg.gov.za; straussdj@orientis.co.za/ ameliastrauss2@gmail.com; strohl@caa.co.za; teresascheepers@vodamail.co.za; waltjc@nra.co.za; wep@ewt.org.za

**Date:** 09/09/2015 16:00

Subject: Notice of EIA Process for Mulilo - Solar PV Facilities and Associated Electrical Infrastructure, Northern

Cape

Attachments: Mulilo Solar PV BID\_Eng\_BID\_A4\_8 PAGES.pdf; CSIR Letter 1 to I&APs\_MuliloSolar NC\_BID 90915.pdf;

Comment and Response Form\_Mulilo BID\_NC.pdf

Dear Stakeholders and Interested and Affected Parties

Notice of scoping and environmental impact Assessment for the Proposed development of seven Solar Photovoltaic Facilities AND ASSOCIATED ELECTRICAL INFRASTRUCTURE FOR MULILO RENEWABLE PROJECT DEVELOPMENTS (pTY) LTD, north-east of Kenhardt, Northern Cape Province

Competent Authority: National Department of Environmental Affairs

csir reference: EMS0106/MULILO/2015

This e-mail correspondence serves to inform you of the initiation of a Scoping and Environmental Impact Assessment (EIA) Process for the above-mentioned proposed project, located approximately 30 km north-east of Kenhardt within the !Kheis Local Municipality, Northern Cape Province. The Project Applicant is Mulilo Renewable Project Developments (Pty) Ltd (hereinafter referred to as "Mulilo"). The CSIR has been appointed by Mulilo to undertake the required Scoping and EIA Process.

A full Scoping and EIA Process is required for the development of seven 75 Megawatt (MW) Solar Photovoltaic (PV) or Concentrated Photovoltaic (CPV) Solar power generation facilities and associated electrical infrastructure (132 kV transmission lines for each 75 MW facility), on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining extent of Boven Rugzeer Farm 169. Two of the projects will be located on Portion 3-, two projects on Portion 8 of Gemsbok Bult Farm 120 and three projects on the Remaining Extent of Boven Rugzeer Farm 169. Each 75 MW Solar PV facility proposed will cover an approximate area of 200 hectares (ha) with a collective footprint of approximately 1 400 ha and a combined power generation capacity of 525 MW. The proposed projects will entail the construction of the solar field, buildings, electrical infrastructure, internal access roads, and associated infrastructure and structures.

The proposed 75 MW Solar PV facilities and transmission lines are located within the same geographical area and constitute the same type of activity; hence an integrated Public Participation Process will be undertaken. However, separate Applications for Environmental Authorisation will be lodged with the National Department of Environmental Affairs (DEA) for each proposed 75 MW Solar PV facility and transmission line. The projects and locations are listed below:

No Solar PV Project Project Site

Gemsbok Solar PV3

Portion 3 of Gemsbok Bult 120

2 Gemsbok Solar PV4 Portion 3 of Gemsbok Bult 120

3 Gemsbok Solar PV5 Portion 8 of Gemsbok Bult 120

4

Gemsbok Solar PV6 Portion 8 of Gemsbok Bult 120

5

Boven Solar PV2

Remaining Extent of Boven Rugzeer 169

6

Boven Solar PV3

Remaining Extent of Boven Rugzeer 169

7

Boven Solar PV4

Remaining Extent of Boven Rugzeer 169

The proposed projects are being assessed in terms of the National Environmental Management Act (Act 107 of 1998), as amended (NEMA), and the NEMA EIA Regulations, published in Government Notice (GN) R982, R983, R984 and R985 on 8 December 2014.

Please find attached the following:

- Background Information Document (BID);

Letter 1 to Interested & Affected Parties (I&APs); and

- Comment and Registration Form.

The BID, which provides an overview of the proposed project, is being released to Stakeholders and I&APs for a 30-day comment period ending on 10 October 2015.

In addition, the above-mentioned project information can be accessed at the following website: http://www.csir.co.za/eia/MuliloSolar

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by no later than 10 October 2015.

Thank you and kind regards,

Minnelise Levendal

CSIR - Environmental Management Services P. O. Box 320, Stellenbosch, 7599

Tel: 021 888 2495/2661 Fax: 021 888 2693 Fmail: mlevendal@csir.co.za

Beste Belanghebbende en Geïnteresseerde Party

KENNISGEWING VAN OMGEWINGSIMPAKEVALUERINGSPROSESSE VIR DIE VOORGESTELDE ONTWIKKELING VAN SEWE SONKRAGAANLEGTE EN ELEKTRIESE INFRASTRUKTUUR VIR 'MULILO RENEWABLE PROJECT DEVELOPMENTS (pTY) LTD' NOORD-OOS VAN KENHARDT, NOORD- KAAP PROVINSIE

Bevoegde Owerheid: Die Nasionale Departement van Omgewingsake

WNNR/CSIR verwysingsnommer: EMS0106/MULILO/2015

Hierdie e-pos korrespondensie is om u in kennis te stel van die aanvang van die Bestek en Omgewingsimpakevalueringsproses vir die bogenoemde projekte, wat 30 km noord-oos van Kenhardt in die !Kheis munisipaliteit voorgestel word. Die Aansoeker vir die projek is Mulilo Renewable Project Developments (Pty) Ltd ("Mulilo"). Die WNNR is aangestel deur Mulilo om die Bestek en Omgewingsimpakevalueringsproses vir die bogenoemde projekte te onderneem.

'n Bestek en Omgewingsimpakevalueringsproses word vereis vir elk van die sewe Fotovoltaïese (PV) sonkragfasiliteite, met 'n opwekkingskapasiteit van tot 75 MW elk en elektriese infrastruktuur (132 kV kraglyn vir elke 75 MW sonkrag fasiliteit). Die beoogde projekte sal geinstaller en bedryf op Gedeeltes 3 en 8 van Gemsbok Bult Plaas 120 en Restant van Boven Rugzeer Plaas 169. Twee van die aanlegte sal op Gedeelte 3 –, twee aanlegte sal op Gedeelte 8 van Gemsbok Bult Plaas 120 opgerig word and drie aanlegte op Restant van Boven Rugzeer Plaas 169. Daar sal konneksiepunte wees na die substasie op die Restant van Gedeelte 3 van Gemsbok Bult 120.

Aangesien die sonkragprojekte en die voorgestelde elektriese infrastruktuur in dieselfde geografiese area gebou gaan word en dieselfde tipe projekte is, word dit voorgestel dat 'n geïntegreerde Publieke Deelname Proses onderneem gaan word. Aparte aansoeke gaan by die Nasionale Departement van Omgewingsake ingedien word vir die verskillende projekte. Die projekte sal na verwys word as:

No Solar PV Project Project Site

1

Gemsbok Solar PV3

Portion 3 of Gemsbok Bult 120

2

Gemsbok Solar PV4

Portion 3 of Gemsbok Bult 120

3

Gemsbok Solar PV5

Portion 8 of Gemsbok Bult 120

4

Gemsbok Solar PV6

Portion 8 of Gemsbok Bult 120

5

Boven Solar PV2

Remaining Extent of Boven Rugzeer 169

6

Boven Solar PV3

Remaining Extent of Boven Rugzeer 169

7

Boven Solar PV4

Remaining Extent of Boven Rugzeer 169

Die voorgestelde projekte sal ge-evalueer word volgens die Nasionale Omgewingsbestuur Wet, 1998 (Wet No 107 van 1998) (NEMA) en die Omgewingsimpakstudie (OIS) Regulasies soos gepubliseer in Staatskennisgewing R982 in Staatskoerant No 38282 van 08 Desember 2014.

Vind asseblief aangeheg die volgende:

- Beskrywing van die projek (word na verwys as die "BID")

- Brief aan die Belanghebbende en Geïnteresseerde Partye (B&GP'e)

- Kommentaar en Registrasievorm

Die BID, wat dien as agtergrond van die projek, bevat 'n beskrwying van die projek, die gelyste aktiwiteite en is vir 30-dae beskikaar vir oorsig en kommentaar teen 10 October 2015. 'n Harde kopie van die bogenoemde dokumente is ook gestuur aan diegene vir wie ons posadresse het. Inligting van die projek is ook beskikbaar op die projekwebtuiste: http://www.csir.co.za/eia/MuliloSolar

Ons versoek graag dat alle kommentaar aan die WNNR Projekbestuurder (kontakbesonderhede onder aangedui) teen 10 Oktober 2015 verskaf word.

By voorbaat dankie,

Minnelise Levendal

CSIR - Environmental Management Services Posbus 320, Stellenbosch, 7599

Tel: 021 888 2495/2661 Faks: 021 888 2693 Epos: mlevendal@csir.co.za

From: Minnelise Levendal
To: Minnelise Levendal

**BC** Clive.Stephenson@transnet.net; CloeteS@dws.gov.za; GeerinJH@eskom.co.za; Gilbert.Nortier@transnet.net; HaarhL@eskom.co.za; JacolineMa@daff.gov.za; LeaskK@eskom.co.za;

APPENDIX E - Correspondence sent to I&APs

MRabothata@environment.gov.za; Marina.Lourens@transnet.net; Mayvyn.Bhana@transnet.net; MeiM@dwa.gov.za; ThokoB@daff.gov.za; WyngaaJO@eskom.co.za; aditeme@agri.ncape.gov.za; admin@grasslands.org.za; advocacy@birdlife.org.za; ameliastrauss2@gmail.com; andre.vanniekerk10@gmail.com/ kraaines@mweb.co.za; annelizac@nda.agric.za; atiplady@ska.ac.za; boozahunter@yahoo.com; ernest.connan@donco.co.za; fpr@bodr.gov.za; hendri@aheadtrading.co.za; howard.hendricks@sanparks.org; jhjs@webmail.co.za; klawrence@trpw.ncape.gov.za; kraaines@mweb.co.za; l.ntsolo@sanbi.org.za; marcyroxnpc@gmail.com; mashuduma@daff.gov.za; messop@environment.gov.za; mm@kaigarib.gov.za; mmathews@ncpg.gov.za; mndzilili@ncpg.gov.za; ontvang@agric.co.za; nhlakad@daff.gov.za; nyaphi@ncpg.gov.za; ontvang@agric.co.za; peter.buys@nersa.org.za; ratha.timothy@gmail.com; rwarie@ncpg.gov.za; sb@siyanda.gov.za; sdelafontaine@gmail.com; sharon@nocci.co.za; smbanjwa@ncpg.gov.za; straussdj@orientis.co.za/ ameliastrauss2@gmail.com; strohl@caa.co.za; teresascheepers@vodamail.co.za; waltjc@nra.co.za; wep@ewt.org.za

**Date:** 09/09/2015 16:49

Subject: Notice of EIA Process for Mulilo - Solar PV Facilities and Associated Electrical Infrastructure, Northern

Cape

Attachments: LR Mulilo Solar PV BID\_Eng\_BID\_A4\_8 PAGES\_LR.pdf; CSIR Letter 1 to I&APs\_MuliloSolar NC\_BID

90915.pdf; Comment and Response Form\_Mulilo BID\_NC.pdf

Dear Stakeholders and Interested and Affected Parties

If you have received my previous email sent at approximately 4pm today please ignore this email. I received many return messages when I sent out the first email due to mailbox size constraints. I have therefore attached a Low Resolution Background Information Document to this email.

I hope everyone receives this email this time.

For those of you who are receiving the notification of the EIA Process for the first time-Please see my initial email below.

Please do not hesitate to contact me should you have any questions.

Best wishes, Minnelise

>>> Minnelise Levendal 09/09/2015 16:00 >>>

Dear Stakeholders and Interested and Affected Parties

Notice of scoping and environmental impact Assessment for the Proposed development of seven Solar Photovoltaic Facilities
AND ASSOCIATED ELECTRICAL INFRASTRUCTURE FOR MULILO RENEWABLE PROJECT DEVELOPMENTS (pTY) LTD, north-east
of Kenhardt, Northern Cape Province

Competent Authority: National Department of Environmental Affairs

#### csir reference: EMS0106/MULILO/2015

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No
Solar PV Project
Project Site
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Gemsbok Solar PV5 Portion 8 of Gemsbok Bult 120

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Gemsbok Solar PV6 Portion 8 of Gemsbok Bult 120

5

Boven Solar PV2 Remaining Extent of Boven Rugzeer 169

6

Boven Solar PV3

Remaining Extent of Boven Rugzeer 169

7

Boven Solar PV4

Remaining Extent of Boven Rugzeer 169

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- Background Information Document (BID);

Letter 1 to Interested & Affected Parties (I&APs); and

Comment and Registration Form.

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In addition, the above-mentioned project information can be accessed at the following website: http://www.csir.co.za/eia/MuliloSolar

Kindly ensure that all comments are submitted to the CSIR Project Manager (details provided below) by no later than 10 October 2015.

Thank you and kind regards,

Minnelise Levendal

CSIR - Environmental Management Services

P. O. Box 320, Stellenbosch, 7599

Tel: 021 888 2495/2661 Fax: 021 888 2693 Email: mlevendal@csir.co.za

Beste Belanghebbende en Geïnteresseerde Party

KENNISGEWING VAN OMGEWINGSIMPAKEVALUERINGSPROSESSE VIR DIE VOORGESTELDE ONTWIKKELING VAN SEWE SONKRAGAANLEGTE EN ELEKTRIESE INFRASTRUKTUUR VIR 'MULILO RENEWABLE PROJECT DEVELOPMENTS (pTY) LTD' NOORD-OOS VAN KENHARDT, NOORD- KAAP PROVINSIE

Bevoegde Owerheid: Die Nasionale Departement van Omgewingsake

WNNR/CSIR verwysingsnommer: EMS0106/MULILO/2015

Hierdie e-pos korrespondensie is om u in kennis te stel van die aanvang van die Bestek en Omgewingsimpakevalueringsproses vir die bogenoemde projekte, wat 30 km noord-oos van Kenhardt in die !Kheis munisipaliteit voorgestel word. Die Aansoeker vir die projek is Mulilo Renewable Project Developments (Pty) Ltd ("Mulilo"). Die WNNR is aangestel deur Mulilo om die Bestek en Omgewingsimpakevalueringsproses vir die bogenoemde projekte te onderneem.

'n Bestek en Omgewingsimpakevalueringsproses word vereis vir elk van die sewe Fotovoltaïese (PV) sonkragfasiliteite, met 'n opwekkingskapasiteit van tot 75 MW elk en elektriese infrastruktuur (132 kV kraglyn vir elke 75 MW sonkrag fasiliteit). Die beoogde projekte sal geinstaller en bedryf op Gedeeltes 3 en 8 van Gemsbok Bult Plaas 120 en Restant van Boven Rugzeer Plaas 169. Twee van die aanlegte sal op Gedeelte 3 -, twee aanlegte sal op Gedeelte 8 van Gemsbok Bult Plaas 120 opgerig word and drie aanlegte op Restant van Boven Rugzeer Plaas 169. Daar sal konneksiepunte wees na die substasie op die

Restant van Gedeelte 3 van Gemsbok Bult 120.

Aangesien die sonkragprojekte en die voorgestelde elektriese infrastruktuur in dieselfde geografiese area gebou gaan word en dieselfde tipe projekte is, word dit voorgestel dat 'n geïntegreerde Publieke Deelname Proses onderneem gaan word. Aparte aansoeke gaan by die Nasionale Departement van Omgewingsake ingedien word vir die verskillende projekte. Die projekte sal na verwys word as:

No Solar PV Project Project Site

1

Gemsbok Solar PV3 Portion 3 of Gemsbok Bult 120

2 Gen

Gemsbok Solar PV4 Portion 3 of Gemsbok Bult 120

3

Gemsbok Solar PV5 Portion 8 of Gemsbok Bult 120

4

Gemsbok Solar PV6 Portion 8 of Gemsbok Bult 120

5

Boven Solar PV2

Remaining Extent of Boven Rugzeer 169

6

Boven Solar PV3

Remaining Extent of Boven Rugzeer 169

7

Boven Solar PV4

Remaining Extent of Boven Rugzeer 169

Die voorgestelde projekte sal ge-evalueer word volgens die Nasionale Omgewingsbestuur Wet, 1998 (Wet No 107 van 1998) (NEMA) en die Omgewingsimpakstudie (OIS) Regulasies soos gepubliseer in Staatskennisgewing R982 in Staatskoerant No 38282 van 08 Desember 2014.

Vind asseblief aangeheg die volgende:

Beskrywing van die projek (word na verwys as die "BID")
Brief aan die Belanghebbende en Geïnteresseerde Partye (B&GP'e)

- Kommentaar en Registrasievorm

Die BID, wat dien as agtergrond van die projek, bevat 'n beskrwying van die projek, die gelyste aktiwiteite en is vir 30-dae beskikaar vir oorsig en kommentaar teen 10 October 2015. 'n Harde kopie van die bogenoemde dokumente is ook gestuur aan diegene vir wie ons posadresse het. Inligting van die projek is ook beskikbaar op die projekwebtuiste: http://www.csir.co.za/eia/MuliloSolar

Ons versoek graag dat alle kommentaar aan die WNNR Projekbestuurder (kontakbesonderhede onder aangedui) teen 10 Oktober 2015 verskaf word.

By voorbaat dankie,

Minnelise Levendal CSIR - Environmental Management Services Posbus 320, Stellenbosch, 7599 Tel: 021 888 2495/2661

Faks: 021 888 2493/2661 Faks: 021 888 2693 Epos: mlevendal@csir.co.za



Scoping and Environmental Impact Assessment for the proposed Development of a 75 MW Solar Photovoltaic Facility (GEMSBOK SOLAR PV6) on Portion 8 of Gemsbok Bult Farm 120, north-east of Kenhardt, Northern Cape Province

# EIA REPORT

# APPENDIX F:

Copy of Site Notice Board and Proof of Placement

#### <u>Site Notice Board – English</u>

### PROPOSED CONSTRUCTION OF THE MULILO SOLAR DEVELOPMENT CONSISTING OF SEVEN 75 MW PV OR CPV SOLAR ENERGY FACILITIES AND ASSOCIATED INFRASTRUCTURE NEAR KENHARDT, NORTHERN CAPE PROVINCE

#### CSIR REFERENCE NUMBER: EMS0106/MULILO/2015

#### JOINT NOTICE OF ENVIRONMENTAL IMPACT ASSESSMENT (EIA) PROCESSES

Notice is hereby given in terms of Regulation 41 of the Environmental Impact Assessment (EIA) Regulations published in Government Notice (GN) R982 in Government Gazette 38282 of 8 December 2014, under Section 24(4)(a) of the National Environmental Management Act (Act 107 of 1998, as amended) (NEMA), that Mulilo Renewable Project Developments (Pty) Ltd proposes to construct and operate seven Photovoltaic (PV) or Concentrated Photovoltaic (CPV) Solar Facilities with a generating capacity of 75 MW each and associated electrical infrastructure (132 kV transmission lines for each 75 MW facility), on Portions 3 and 8 of Gemsbok Bult Farm 120 and the Remaining extent of Boven Rugzeer Farm 169, located 30 km north-east of Kenhardt. Two of the projects will be located on Portion 3-, two projects on Portion 8 of Gemsbok Bult Farm 120 and three projects on the Remaining Extent of Boven Rugzeer Farm 169. Each 75 MW Solar PV facility proposed will cover an approximate area of 200 hectares (ha) with a collective footprint of approximately 1 400 ha and a combined power generation capacity of 525 MW. The proposed projects will entail the construction of the solar field, buildings, electrical infrastructure, internal access roads, and associated infrastructure and structures.

A full Scoping and EIA Process is required for the construction of the seven Solar PV facilities and the development of the proposed transmission lines. The CSIR has been appointed by Mulilo to undertake the required Scoping and EIA Processes for the proposed projects. The need for a Scoping and EIA is triggered by the following potential listed activities listed in GN R983, R984 and R985:

Government Notice	Listed Activity Number
GN R983 - 8 December 2014	Activity11 (i);12 (x) and (xii); 19 (i); 24 (ii); 28 (ii)
GN R984 - 8 December 2014	Activity1 & 15
GN R985 - 8 December 2014	Activity 12 (d)

Since the proposed 75 MW Solar PV facilities are located within the same geographical area and constitute the same type of activity, an integrated Public Participation Process will be undertaken for the proposed projects. However, seven separate Applications for Environmental Authorisation (EA) will be lodged with the National Department of Environmental Affairs (DEA).

To ensure that you are included on the project register as an Interested and Affected Party (I&AP), as well as to raise any issues and concerns for inclusion in the Scoping/EIA Reports, you are kindly requested to register your interest in the projects and submit any comments you may have to the CSIR (at the details indicated below).

More information will be available during the course of the project on the project website: http://www.csir.co.za/eia/MuliloSolar





To obtain further information or to register as Interested and Affected Party (I&AP), please contact: CSIR Minnelise Levendal PO Box 320, Stellenbosch, 7599
Tel: 021 888 2495/Fax: 021 888 2693
Email: mlevendal@csir.co.za

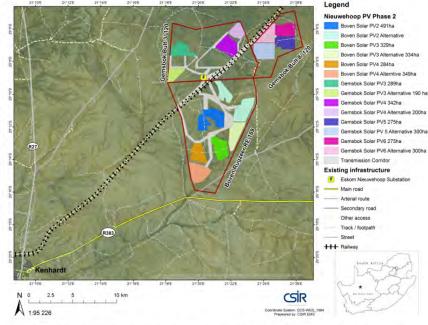


Figure 1: Locality Map depicting the location of the proposed 75 MW Solar PV Projects and alternative sites

#### Site Notice Board - Afrikaans

## VOORGESTELDE "MULILO SOLAR DEVELOPMENT" BESTAANDE UIT SEWE 75 MW FV OF GFV SONKRAG AANLEGTE EN MEEGAANDE INFRASTRUKTUUR NABY KENHARDT, NOORD-KAAP PROVINSIE

CSIR REFERENCE NUMBER: EMS0106/MULILO/2015

#### GEKOMBINEERDE KENNISGEWING VAN OMGEWINGSIMPAKSTUDIE (OIS) PROSESSE

Hiermee word kennis gegee in terme van Regulasie 41 van die Omgewingsimpakstudie (OIS) Regulasies soos gepubliseer in Staatskennisgewing R982 in Staatskerant No 38282 van 08 Desember 2014, onder Seksie 24(4)(a) van die Nasionale Omgewingsbeheer Wet, 1998 (Wet No 107 van 1998) (NEMA), dat **Mulilo Renewable Project Developments (Pty) Ltd** van voornemene is om sewe **Fotovoltaïese** (**PV) sonkragfasiliteite, met 'n opwekkingskapasiteit van tot 75 MW elk en elektriese infrastruktuur (132 kV kraglyn vir elke 75 MW sonkrag fasiliteit) te installer en te bedryf op Gedeeltes 3 en 8 van Gemsbok Bult Plaas 120 en Restant van Boven Rugzeer Plaas 169. Twee van die aanlegte sal op Gedeelte 3 –, twee aanlegte sal op Gedeelte 8 van Gemsbok Bult plaas 120 opgerig word and drie aanlegte op Restant van Boven Rugzeer Plaas 169. Daar sal konneksiepunte wees na die substasie op die Restant van Gedeelte 3 van Gemsbok Bult 120. Die voorgestelde vis 30 km noord-oos van Kenhardt geleë.** Elke project gaan ongeveer 200 hektaar (ha) beslaan en sal langs mekaar gebou word. Elke projek gaan, onder andere uit sonpanele, geboue, elektriese infrastruktuur, en toegangspaaie bestaan.

Die beoogde projekte vereis dat 'n Omvangsbepaling-en Omgewingsevaluering (OIE) proses onderneem moet word. Die Wetenskaplike en Nywerheidsnavorsingsraad (WNNR) is deur Mulilo aangestel om die vereiste prosesse te onderneem. Die prosesse word benodig omdat die volgende aktiwiteite soos gelys in Staatskennisgewings R 983, R 984 en R 985 van toepassing is op die projekte:

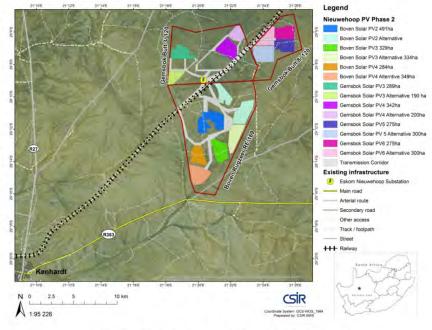
Staatskennisgewing	Gelyste aktiwiteite
GN R983 - 8 December 2014	Aktiwiteit11 (i);12 (x) and (xii); 19 (i); 24 (ii) 28 (ii)
GN R984 - 8 December 2014	Aktiwiteit1, 4 & 15
GN R985 - 8 December 2014	Aktiwiteit 12 (d)

Aangesien al sewe projekte in dieselfde geografiese area geleë is en dieselfde tipe aktiwiteit behels sal 'n geïntegreerde Publieke Deelname Proses onderneem word. Een gesamentlike Omvangsbepalingverslag sal ingedien word vir die sewe projekte, maar sewe aparte aansoeke en OIE verslae sal ingedien word vir evaluering deur die Nasionale Departement van Omgewingsake.

Om te verseker dat u vir die projekte as 'n Belangstellende en Geaffekteerde Party (B&GP) geregistreer word of om enige kwessie uit te lig wat u met die projekte het, word u vriendelik versoek om te registreer vir die projekte en u kommentaar aan WNNR se verteenwoordiger (inligting hieronder) te stuur. Verdere inligting sal ook deur die loop van die projek op die projek se webtuiste beskikbaar wees: http://www.csir.co.za/eia/MuliloSolar



Om meer inligting te bekom of om te registreer as Geïnteresseerde en Belanghebbende Party (G&BP), kontak asseblief: WNNR
Kontakprsoon: Minnelise Levendal Posbus 320, Stellenbosch, 7599
Tel: 021 888 2495
Faks: 021 888 2693
E-pos: mlevendal@csir.co.za



Figuur 1: Terrein Kaart wat die ligging van die voorgestelde projekte aandui

# <u>Site notice board placed at the entrance to the Transnet Service Road which serves as one of the access roads to the preferred and alternative sites</u>





#### Site notice board placed at Loop 14 of Saldanha Railway Line (Transnet)





# <u>Site notice board placed at the entrance to the Transnet Rail Crossing (in close proximity to Gemsbok Solar PV5-and Gemsbok Solar PV6 Alternative Project sites)</u>

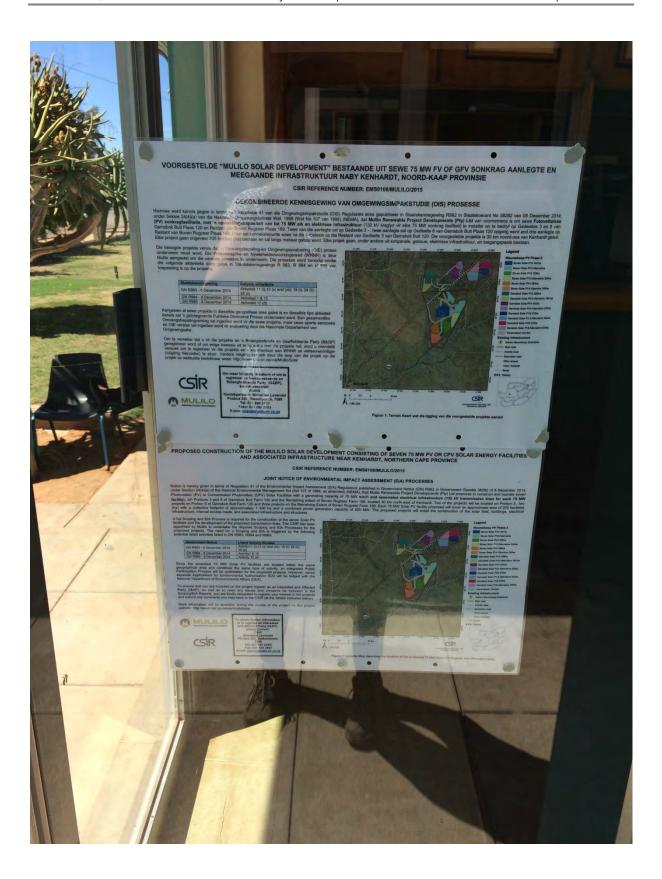






#### Site notice board placed at the Kai! Garib Municipal Office in Kenhardt





#### Site notice board placed at the Kenhardt Petrol Station

