Du Plessis Dam Solar PV1 Grid Connection Ref Nr 14/12/16/3/3/1/2569

Signed Generic EMPr: Substations

PART B: SECTION 2

- 7. SITE SPECIFIC INFORMATION AND DECLARATION
- 7.1 Sub-section 1: Contact details and description of the project

7.1.1 Details of the applicant

Applicant name	Du Plessis Dam Solar PV1 (Pty) Ltd							
Contact person	son Mr Warren Morse							
Physical address	Top Floor; Golf Park 4, Raapenberg Rd, Mowbray, Cape Town, 7700							
Postal address PostNet Suite #53, Private Bag X21, Howard Place, 7405								
Email	warren@mulilo.com							
Telephone	(021) 685 3240							

7.1.2 Details and expertise of the EAP

EAP Name	Annelize Erasmus								
EAP qualifications	 BL (Landscape Architecture) Degree – University of Pretoria, 1988 "Integrated Environmental Management – Theory and Practice"; University of Cape Town, 1992 Assessor of EAP Applications for registration with EAPASA (since 1 February 2020) Various workshops and webinars in the environmental consultancy field 								
Professional affiliation/ registration	 EAPASA Registered: Annelize Erasmus (Grobler): 2019/1728 Member of the IAIASA 								
Physical address	91 Wenning Street, Groenkloof, Pretoria, 0181								
Postal address	PO Box 947; Groenkloof; Pretoria; 0027								
Email	info@landscapedynamics.co.za / annelize@landscapedynamics.co.za								
Telephone	082 566 4530								
Curriculum Vitae	The Landscape Dynamics Company Profile and condensed CV of the EAP are attached hereto and/or is available on www.landscapedynamics.co.za								

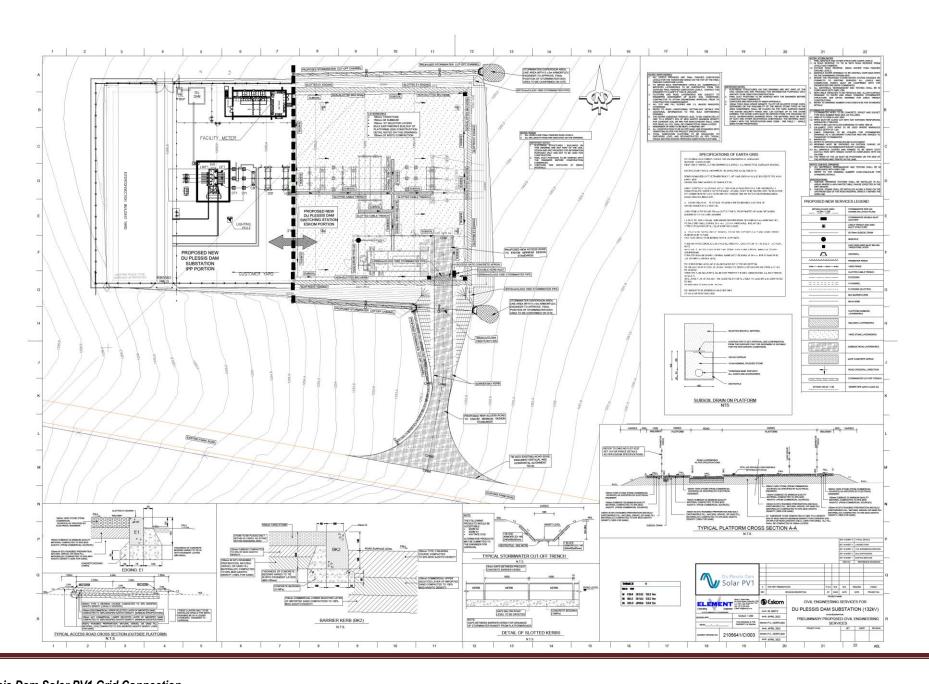
7.1.3 Project name

Du Plessis Dam Solar PV1 Grid Connection: Switching Station and 132kV Powerline connecting the Du Plessis Dam Solar PV1 to the Mulilo Cluster 1 Substation, De Aar, Northern Cape Province

7.1.4 Description of the project

Infrastructure	Specifications
Powerline (Grid	132kV S/C Overhead Power line will connect the Du Plessis Dam Solar PV1 Eskom
connection)	Switching Station with the Mulilo Cluster 1 Substation
·	Length/Route is approximately 7.6km
	Eskom Servitude width is 31m.
	A 300m wide corridor was assessed
	Associated infrastructure at the Overhead Power Line Route/Servitude:
	 Steel monopole structures
	ACSR & OPGW Conductors
	 Foundations and Earthing
	 Line Hardware and Accessories
Access Roads	±2km, 12m wide access road
	 Starting point at the R48 and ends at the PV1 switching station
	 This access road is existing but will be widened to 12m
	 Road was authorised with the Du Plessis Solar PV1 application (DFFE Ref Nr
	12/12/16/3/3/2/456)
	±6m wide access road will be constructed along the line route for construction and
	maintenance purposes – this road will be inside the powerline servitude
Switching Station	33/132kV switching yard
	± 0.5 hectares in size (50m x 100m)
	Internal access roads of 6m wide
	Associated infrastructure at the Switching Station
	 Outdoor Mechanical-Electrical High Voltage Equipment
	 Indoor Medium Voltage Switchgear and Low Voltage Controlgear
	 Lighting Protection Equipment
	Perimeter and internal Fencing
	 Buildings required for operation (i.e. ablutions required for maintenance staff)
Laydown area	A construction site area of ±1 hectares adjacent to the PV1 Switching Station site
	All temporary infrastructure will be rehabilitated following the completion of the
	construction phase, where it is not required for the operation phase.
Storage of diesel	Diesel storage of less than 80m³ for the 132kV Switching Station:
	o During construction, diesel is required for construction vehicles as well as generators for
	the construction camp and commissioning whilst waiting for the Eskom grid connection
	works to be completed
	 During operations, diesel is required for Operations & Maintenance vehicles at the PV
	plants but also required for backup diesel generators at the substations. The Generators
	supply auxiliary power to the substation's protection and communications systems,
	should there be outages on the grid. This is an Eskom requirement together with a
	battery room at the substations to act as UPS for these critical systems.
Temporary Services	During the construction phase, temporary sanitation facilities will be provided (i.e. chemical
	toilets) and these toilets will be regularly serviced by a licensed company.

The following page provides the concept civil design of the Eskom switching station and the IPP Substation.



7.1.5 Project location

The project is situated between 3km and 6km east of De Aar, within the jurisdiction of the Emthanjeni Local Municipality, Pixley Ka Seme District in the Northern Cape Province.

The infrastructure and preferred route alternative affect the following properties. The relevant property for the switching station, laydown area and diesel storage facility is marked in green below.

Farm name	Coordinates of the approximate centre point of the property						
	Latitude	Longitude					
The Remainder of the Farm Du Plessis Dam No 179	30°37'52.58"S	24° 3'28.00"E					
Portion 10 of the Farm De Aar 180	30°38'52.91"S	24° 3'6.60"E					
Portion 5 of the Farm De Aar 180	30°39'0.06"S	24° 3'50.27"E					
Portions 4 of the Farm De Aar 180	30°39'3.78"S	24° 4'36.71"E					
Portions 1 of the Farm De Aar 180	30°41'0.49"S	24° 3'42.48"E					

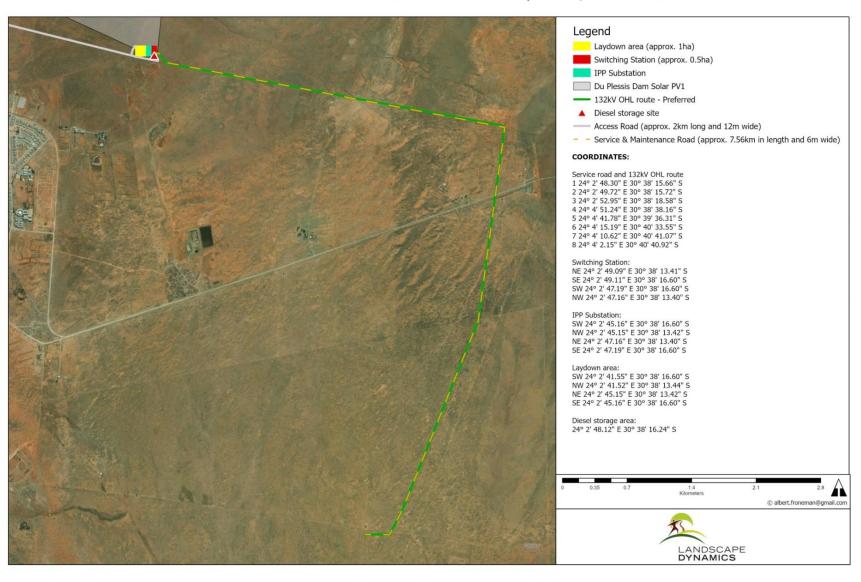
The following SG21 Digit Codes are relevant to the Du Plessis Dam PV1 Grid Connection Project

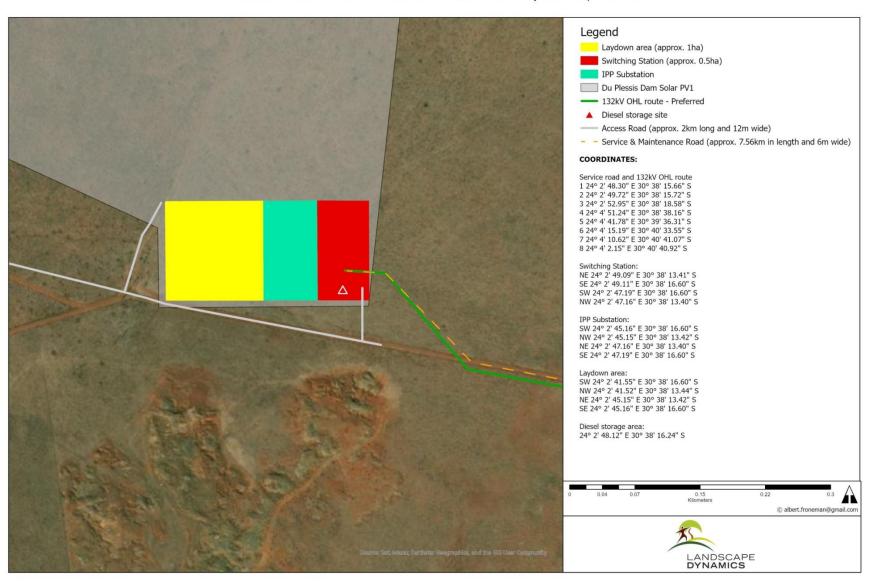
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С	0	5	7	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	1	0
С	0	5	7	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	0	5
С	0	5	7	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	0	4
С	0	5	7	0	0	0	0	0	0	0	0	0	1	8	0	0	0	0	0	1

COORDINATES OF PROJECT COMPONENTS

Refer to the coordinates provided on the project layout maps on the following pages:

The first map indicates the entire project layout and the second map provides more detail of the switching station area.





7.2 Sub-section 2: Development footprint site map

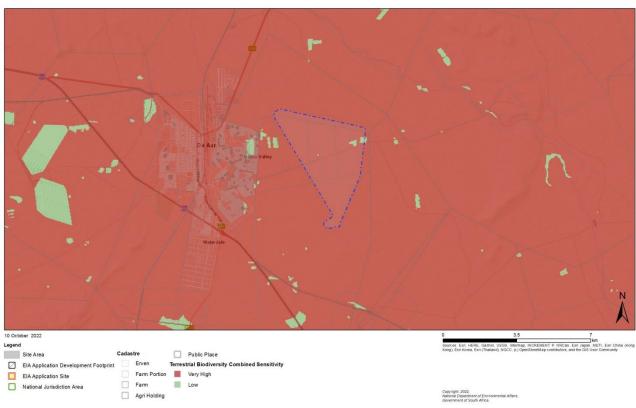
This sub-section must include a map of the site sensitivity overlaid with the preliminary infrastructure layout. The sensitivity map must be prepared from the national web based environmental screening tool, when available for compulsory use at: https://screening.environment.gov.za/screeningtool. The sensitivity map shall identify the nature of each sensitive feature e.g. threatened plant species, archaeological site, etc. Sensitivity maps shall identify features both within the planned working area and any known sensitive features within 50m from the development footprint.

The Screening Tool maps below were created on 10 October 2022. The site area represents the combined substation and laydown assessment area as well as the power line corridor.



Terrestrial Biodiversity Sensitivities

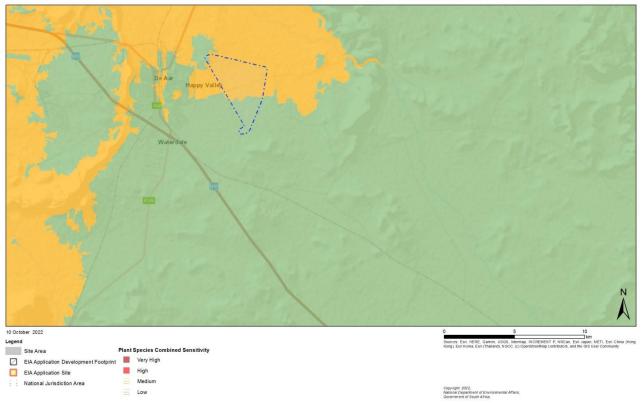






Plant Sensitivities

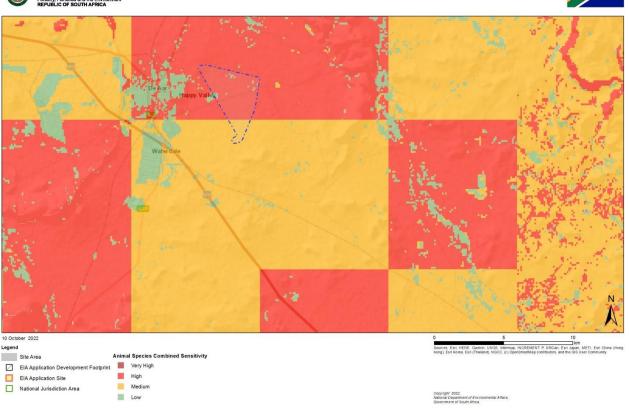






Animal Species Sensitivities

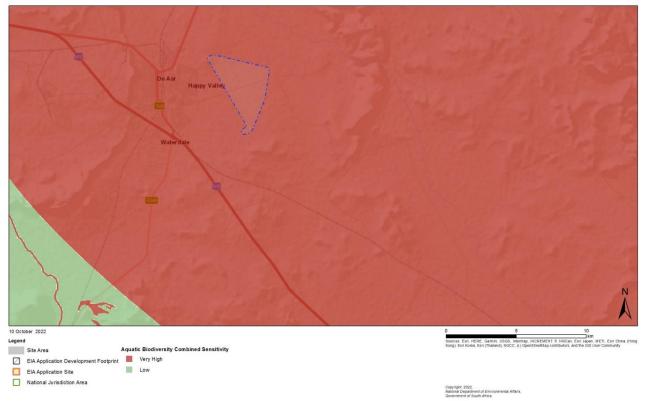






Aquatic Sensitivities

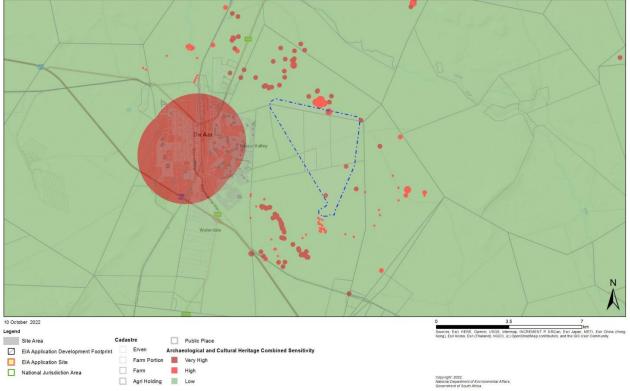






Archaeological and Cultural Heritage Sensitivity

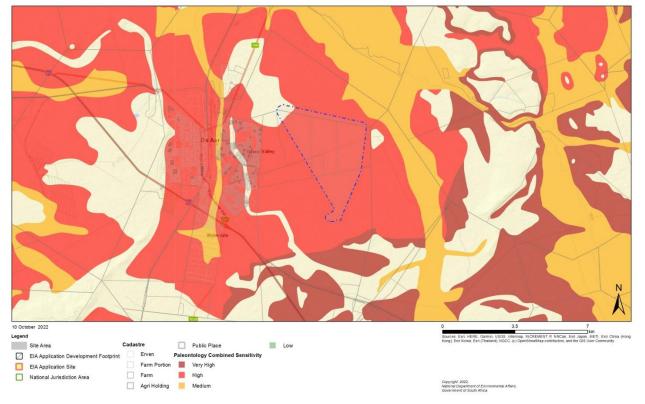






Paleontological Sensitivities

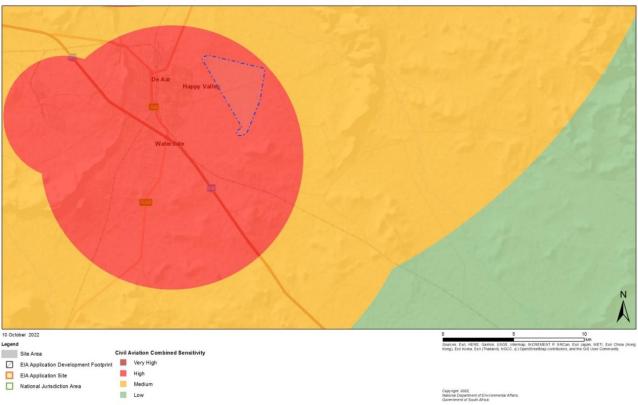






Civil Aviation Sensitivities

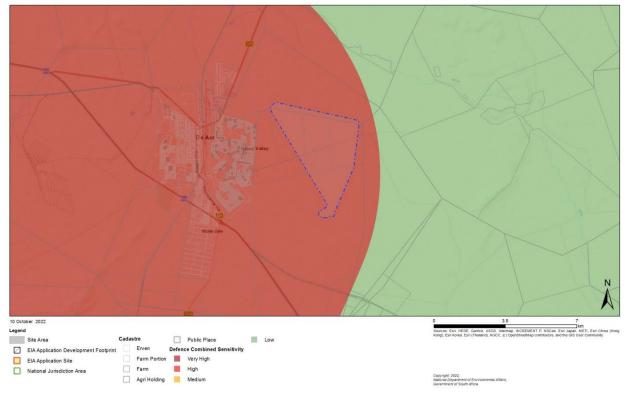






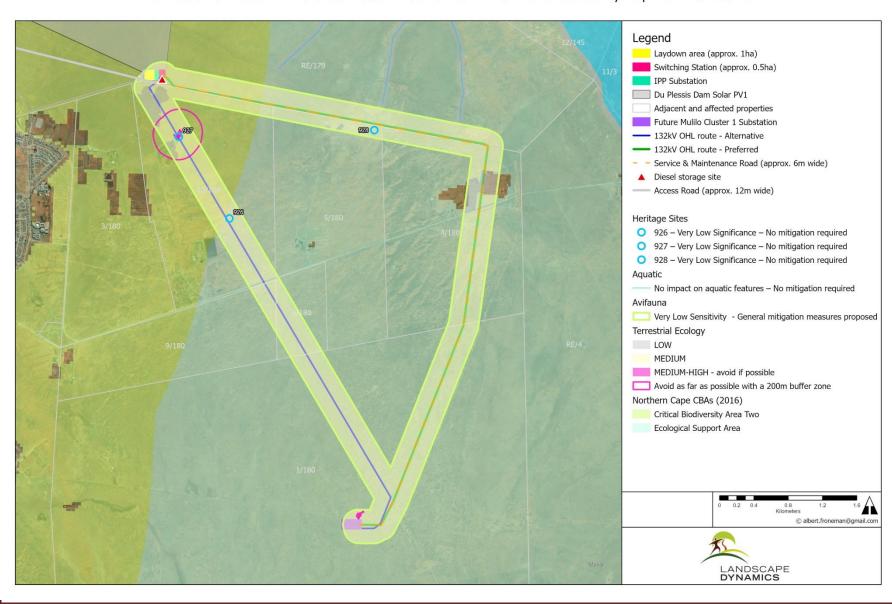
Defense Sensitivities





Desktop assessments, site verification and relevant specialist studies were undertaken to confirm the relevance of the above sensitivity maps derived from the DFFE Screening Tool Report. The Screening Tool Report and the verification summary is attached in Addendum B(a) and B(b) of the generic EMPr. A combined environmental sensitivity map was compiled and is provided on the next page. The applicable environmental sensitivity attributes not addressed in the Generic EMPr are provided and addressed in Section C submitted as part of the Generic EMPr.

Du Plessis Dam Solar PV1 Grid Connection: Combined Environmental Sensitivity Map with Alternatives



7.3 Sub-section 3: Declaration

The proponent/applicant or holder of the EA affirms that he will abide and comply with the prescribed impact management outcomes and impact management actions as stipulated in Part B: Section 1 of the generic EMPr and have the understanding that the impact management outcomes and impact management actions are legally binding. The proponent/applicant or holder of the EA affirms that he/she will provide written notice to the CA 14 day prior to the date on which the activity will commence of commencement of construction to facilitate compliance inspections.

(b)	
99	17 November 2022
Signature Proponent/applicant/ holder of EA	Date