SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE ENVIRONMENTAL SENSITIVITY

EIA Reference number: N/A **Project name:** Darling Solar

Project title: Darling Solar PV - Remainder of Farm 551 **Date screening report generated:** 04/08/2023 14:27:17

Applicant: Swartland Local Municipality

Compiler: EnviroAfrica
Compiler signature:

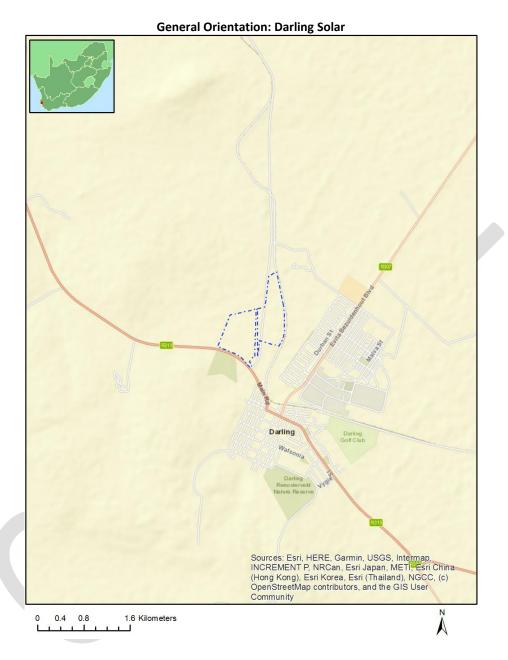
Application Category: Utilities Infrastructure | Electricity | Generation | Renewable | Solar | PV

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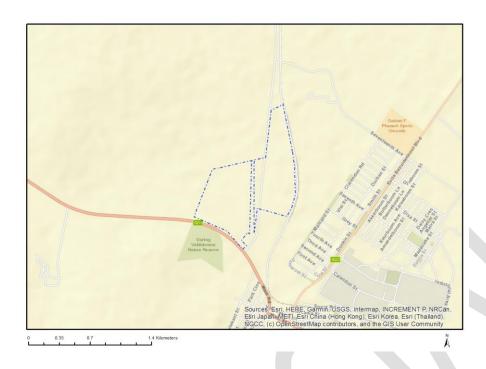
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Proposed Project Location

Orientation map 1: General location



Map of proposed site and relevant area(s)



Cadastral details of the proposed site

Property details:

No	Farm Name	Farm/ Erf No	Portion	Latitude	Longitude	Property Type
1	DARLING	551	0	33°21'59.5S	18°22'34.06E	Erven
2	DARLING	551	0	33°21'56.3S	18°22'34.95E	Erven
3	DARLING	539	0	33°22'2.88S	18°22'52.48E	Erven

Development footprint¹ vertices: No development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	12/12/20/2217/AM3	Wind	Approved	14.2
2	12/12/20/2393/AM2	Solar PV	Approved	14.3
3	12/12/20/1985	Solar PV	Approved	14.6
4	12/12/20/2217	Wind	Approved	12.9
5	12/12/20/2638	Wind	Approved	16.1

¹ "development footprint", means the area within the site on which the development will take place and incudes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

6	12/12/20/1928	Wind	Approved	11.8
7	14/12/16/3/3/2/779	Wind	Approved	8.2
8	12/12/20/1582/AM3	Wind	Approved	3.9
9	12/12/20/1302/AM5	Wind	Approved	28.7
10	12/12/20/1582/A1	Wind	Approved	3.9
11	12/12/20/2638/AM2	Wind	Approved	16.1
12	12/12/20/1582/AM4	Wind	Approved	3.9
13	12/12/20/2217/AM2	Wind	Approved	14.2
14	12/12/20/1582	Wind	Approved	3.9
15	12/12/20/2393	Solar PV	Approved	14.3
16	12/12/20/1302	Wind	Approved	28.7
17	12/12/20/2638/AM3	Wind	Approved	16.1
18	12/12/20/1582/AM2	Wind	Approved	3.9

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is:

Utilities Infrastructure | Electricity | Generation | Renewable | Solar | PV.

Relevant development incentives, restrictions, exclusions or prohibitions

The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/Developmen tZones/Combined_EGI.pdf
Strategic Gas Pipeline Corridors-Phase 1a & 1b: Saldanha to Ankerlig and Saldanha to Mossel Bay	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined GAS.pdf
South African Conservation Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACAD OR 2023 Q1 Metadata.pdf

Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme	Schisterity	X	Scrisicivity	Schistervicy
Animal Species Theme		X		
Aquatic Biodiversity Theme				Х
Archaeological and Cultural Heritage Theme				Х
Avian Theme				Х
Civil Aviation (Solar PV) Theme				Х
Defence Theme				Х
Landscape (Solar) Theme	Х			
Paleontology Theme			Х	
Plant Species Theme		Х		
RFI Theme				Х
Terrestrial Biodiversity Theme	Х			

Specialist assessments identified

Based on the selected classification, and the known impacts associated with the proposed development, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

No	Specialist	Assessment Protocol
	assessment	
1	Agricultural Impact	https://screening.environment.gov.za/ScreeningDownloads/Asse
	Assessment	ssmentProtocols/Gazetted WindAndSolar Agriculture Assessme
		nt Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
	Assessment	ssmentProtocols/Gazetted General Requirement Assessment P
2		rotocols.pdf
3	Archaeological and Cultural Heritage Impact	https://screening.environment.gov.za/ScreeningDownloads/Asse
	Assessment	ssmentProtocols/Gazetted General Requirement Assessment P
4	Delegentalegy Impact	rotocols.pdf
4	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
		<u>ssmentProtocols/Gazetted General Requirement Assessment P</u> rotocols.pdf
5	Terrestrial Biodiversity	https://screening.environment.gov.za/ScreeningDownloads/Asse
	Impact Assessment	ssmentProtocols/Gazetted Terrestrial Biodiversity Assessment
		Protocols.pdf
6	Aquatic Biodiversity	https://screening.environment.gov.za/ScreeningDownloads/Asse
	Impact Assessment	ssmentProtocols/Gazetted Aquatic Biodiversity Assessment Pr
		otocols.pdf
7	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
		ssmentProtocols/Gazetted Civil Aviation Installations Assessme
		nt_Protocols.pdf
8	Defense Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
		ssmentProtocols/Gazetted_Defence_Installations_Assessment_Pr
		<u>otocols.pdf</u>
9	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/Asse
		ssmentProtocols/Gazetted General Requirement Assessment P

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		<u>rotocols.pdf</u>
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_P
		<u>rotocols.pdf</u>
11	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
12	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
13	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Animal Species Assessment Protocols.pdf



Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed site for relevant environmental themes associated with the project classification. It is the duty of the EAP to ensure that the environmental themes provided by the screening tool are comprehensive and complete for the project. Refer to the disclaimer.

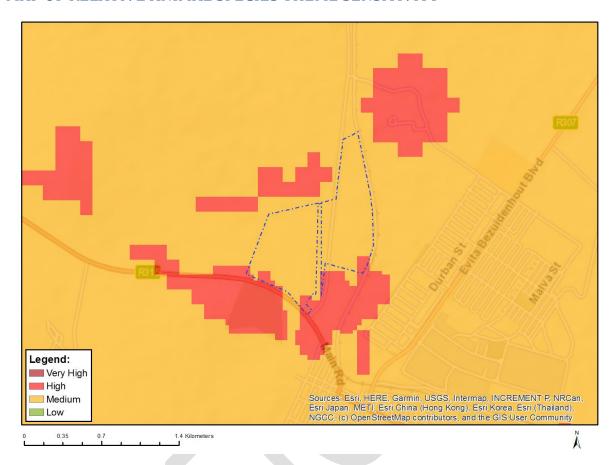
MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity	Feature(s)	
High	Land capability;09. Moderate-High/10. Moderate-High	
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;06. Low-Moderate/07. Low-	
	Moderate/08. Moderate	
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate	

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY

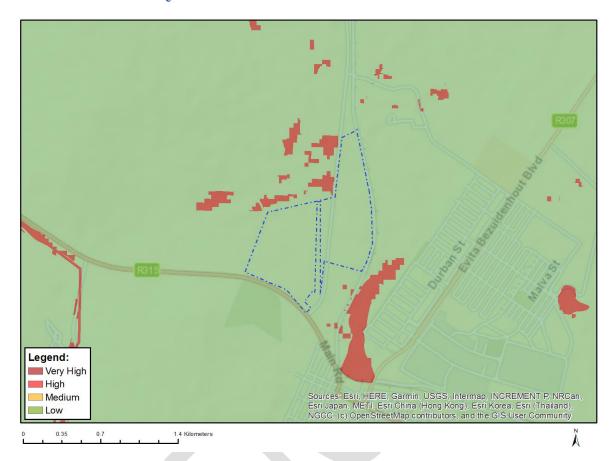


Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Feature(s)	
High	Aves-Circus maurus
High	Aves-Falco biarmicus
High Aves-Afrotis afra	
Medium	Insecta-Stygionympha dicksoni
Medium	Insecta-Trimenia wallengrenii wallengrenii
Medium	Invertebrate-Pachysoma aesculapius
Medium	Invertebrate-Bullacris obliqua

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Χ

Sensitivity	Feature(s)	
Low	Low sensitivity	

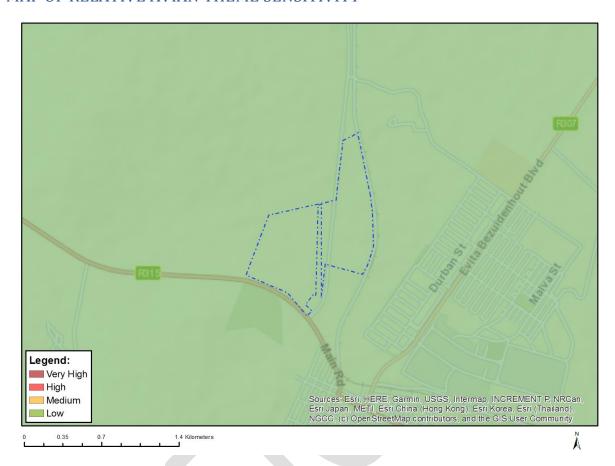
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Χ

Sensitivity	Feature(s)	
Low	Low sensitivity	

MAP OF RELATIVE AVIAN THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Χ

Sensitivity	Feature(s)	
Low	Low Sensitivity	

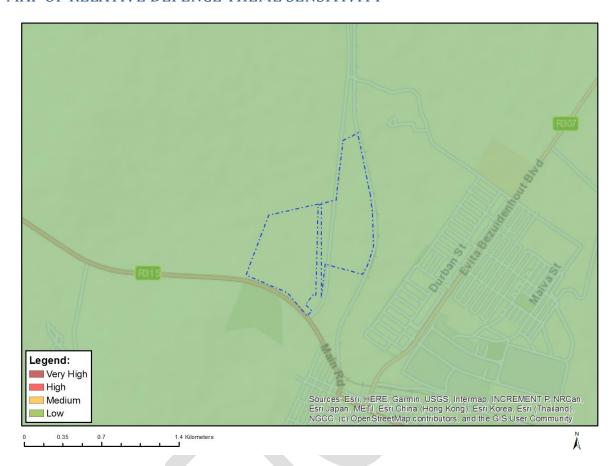
MAP OF RELATIVE CIVIL AVIATION (SOLAR PV) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Χ

Sensitivity Feature(s)	
Low	No major or other types of civil aviation aerodromes

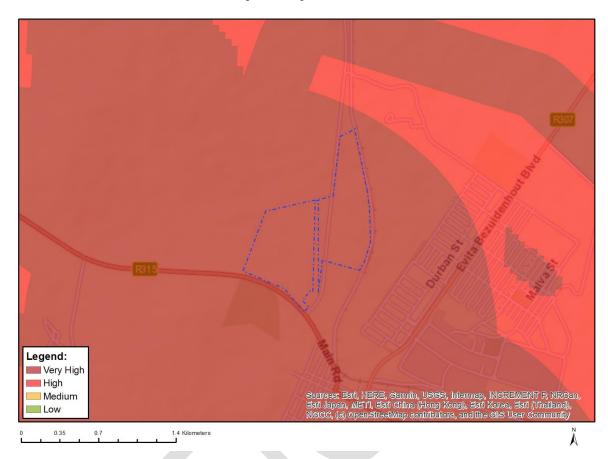
MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Χ

Sensitivity	Feature(s)	
Low	Low sensitivity	

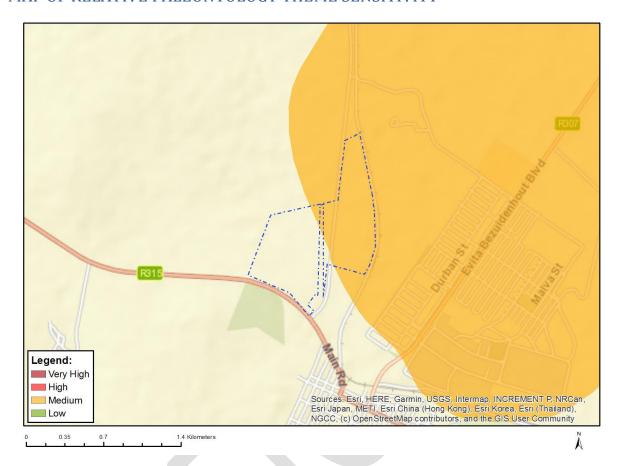
MAP OF RELATIVE LANDSCAPE (SOLAR) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	Feature(s)	
Very High	Within 1.5 km of a nature reserve	

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

Sensitivity	Feature(s)
Medium	Features with a Medium paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



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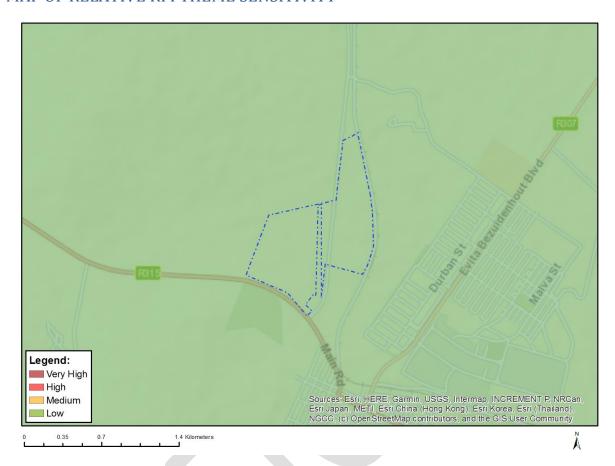
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity	Feature(s)
High	Sensitive species 919
Low	Low Sensitivity
Medium	Lampranthus amoenus
Medium	Lampranthus aureus
Medium	Lampranthus coccineus
Medium	Lampranthus dilutus
Medium	Lampranthus filicaulis
Medium	Lampranthus leptaleon
Medium	Lampranthus peacockiae
Medium	Lampranthus scaber
Medium	Lampranthus sociorum
Medium	Lampranthus spiniformis
Medium	Sensitive species 210

Medium	Antimima mucronata
Medium	Antimima aristulata
Medium	Erepsia hallii
Medium	Erepsia patula
Medium	Cleretum clavatum
Medium	Ruschia diversifolia
Medium	Ruschia geminiflora
Medium	Ruschia langebaanensis
Medium	Drosanthemum hispifolium
Medium	Cephalophyllum parviflorum
Medium	Xiphotheca lanceolata
Medium	Aspalathus acanthophylla
Medium	Aspalathus aculeata
Medium	Aspalathus glabrata
Medium	Aspalathus lotoides subsp. lagopus
Medium	Aspalathus lotoides subsp. lotoides
Medium	Aspalathus stricticlada
Medium	Lebeckia plukenetiana
Medium	Podalyria sericea
Medium	Leucadendron lanigerum var. lanigerum
Medium	Leucospermum hypophyllocarpodendron subsp. canaliculatum
Medium	Leucospermum tomentosum
Medium	Protea burchellii
Medium	Roella arenaria
Medium	Microdon capitatus
Medium	Manulea corymbosa
Medium	Lobostemon capitatus
Medium	Echiostachys spicatus
Medium	Sensitive species 267
Medium	Sensitive species 631
Medium	Sensitive species 703
Medium	Sensitive species 703 Sensitive species 919
Medium	Sensitive species 1134
Medium	
Medium	Sensitive species 878 Geissorhiza darlingensis
Medium	
Medium	Geissorhiza eurystigma Geissorhiza monanthos
	Geissorhiza riidianis
Medium	
Medium	Sparaxis parviflora
Medium	Ixia abbreviata
Medium	Ixia curta
Medium	Ixia monadelpha
Medium	Ixia aurea
Medium	Ixia fuscocitrina
Medium	Romulea eximia
Medium	Sensitive species 995
Medium	Pauridia alba
Medium	Pauridia canaliculata
Medium	Pauridia pygmaea
Medium	Oxalis stictocheila
Medium	Hermannia procumbens subsp. myrrhifolia
Medium	Sensitive species 222
Medium	Sensitive species 324
Medium	Sensitive species 478
Medium	Sensitive species 756
Medium	Adenogramma rigida
Medium	Wachendorfia brachyandra
Medium	Sensitive species 133
Medium	Anisodontea biflora
Medium	Sensitive species 985
1	

Medium	Pterygodium cruciferum
Medium	Pterygodium inversum
Medium	Metalasia capitata
Medium	Metalasia octoflora
Medium	Senecio cadiscus
Medium	Athanasia rugulosa
Medium	Sensitive species 1042
Medium	Agathosma glandulosa
Medium	Agathosma latipetala
Medium	Adenandra villosa subsp. biseriata
Medium	Macrostylis villosa subsp. villosa
Medium	Limonium purpuratum
Medium	Muraltia macropetala
Medium	Sensitive species 782
Medium	Sensitive species 158
Medium	Sensitive species 616
Medium	Wurmbea capensis
Medium	Phylica stenopetala var. stenopetala
Medium	Phylica strigulosa
Medium	Phylica thunbergiana
Medium	Ezoloba macrocarpa
Medium	Lampranthus debilis
Medium	Lampranthus glaucus
Medium	Xiphotheca reflexa
Medium	Aponogeton fugax
Medium	Sensitive species 593
Medium	Sensitive species 335
Medium	Sensitive species 599
Medium	Restio rigoratus
Medium	Cotula pusilla
Medium	Sensitive species 1225

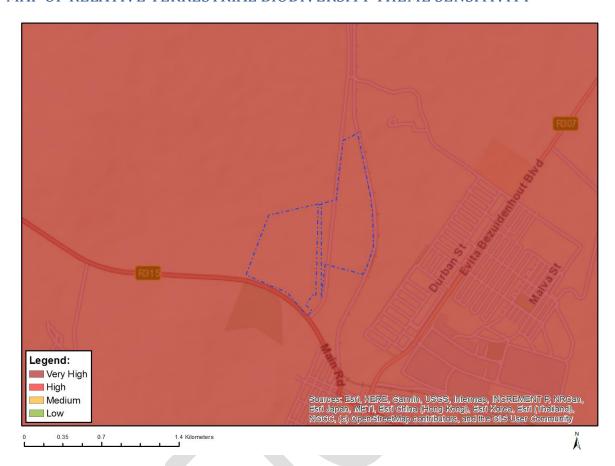
MAP OF RELATIVE RFI THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			Χ

Sensitivity	Feature(s)	
Low	Low sensitivity	

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	Feature(s)
Very High	ESA 2: Restore from other land use
Very High	CBA 1: Terrestrial
Very High	EN_Swartland Granite Renosterveld