

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

EIA Reference number: 16/3/3/1/F5/5/2016/24

Project name: Darling Solar PV

Project title: Darling Solar PV

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Applicant: Swartland Municipality

Compiler: Clinton Geyser - EnviroAfrica

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

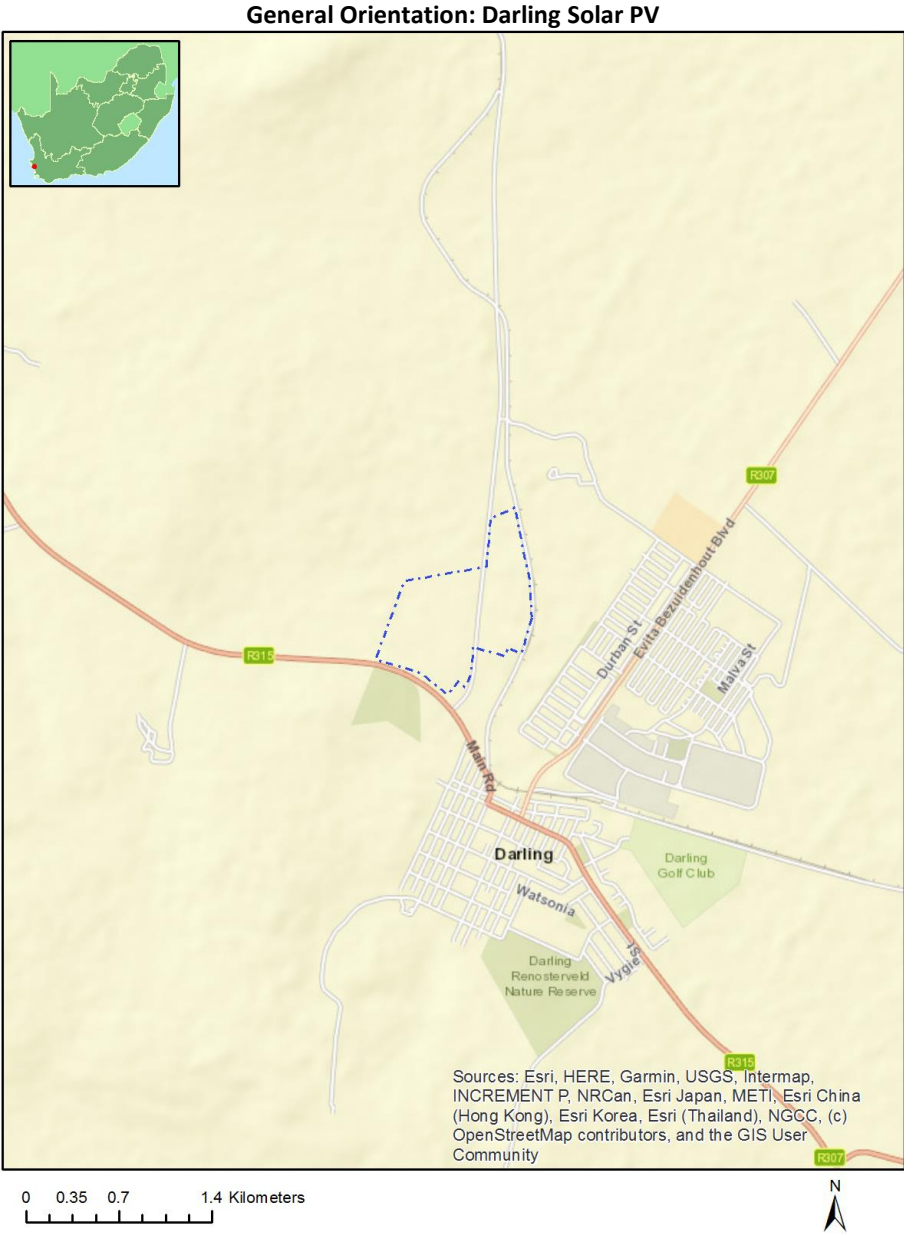


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Proposed Project Location

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	552	0	33°21'56.57S	18°22'53.96E	Erven
2	DARLING	551	0	33°21'59.55S	18°22'34.06E	Erven
3	DARLING	551	0	33°21'56.35S	18°22'34.95E	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	12/12/20/1302/AM5	Wind	Approved	28.8
2	14/12/16/3/3/1/2342	Wind	Approved	11.8
3	12/12/20/2217/AM3	Wind	Approved	14.3
4	12/12/20/1928	Wind	Approved	11.8
5	14/12/16/3/3/2/779	Wind	Approved	8.2

¹ “development footprint”, means the area within the site on which the development will take place and includes 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	12/12/20/2217	Wind	Approved	13
7	12/12/20/1582/AM3	Wind	Approved	3.9
8	12/12/20/2638	Wind	Approved	16.2
9	12/12/20/2393	Solar PV	Approved	14.3
10	12/12/20/1582/AM4	Wind	Approved	3.9
11	12/12/20/2393/AM2	Solar PV	Approved	14.3
12	12/12/20/1582	Wind	Approved	3.9
13	12/12/20/2638/AM2	Wind	Approved	16.2
14	12/12/20/1985	Solar PV	Approved	14.6
15	12/12/20/2638/AM3	Wind	Approved	16.2
16	12/12/20/1302	Wind	Approved	28.8
17	12/12/20/2217/AM2	Wind	Approved	14.3
18	12/12/20/1582/A1	Wind	Approved	3.9
19	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/DevelopmentZones/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_Q3_Metadata.pdf
Main Electricity Distribution Substation	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Distribution_Transmission.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		X		
Animal Species Theme		X		
Aquatic Biodiversity Theme				X
Archaeological and Cultural Heritage Theme				X
Avian Theme				X
Civil Aviation (Solar PV) Theme				X
Defence Theme				X
Landscape (Solar) Theme	X			
Paleontology Theme			X	
Plant Species Theme			X	
RFI Theme				X
Terrestrial Biodiversity Theme	X			

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.

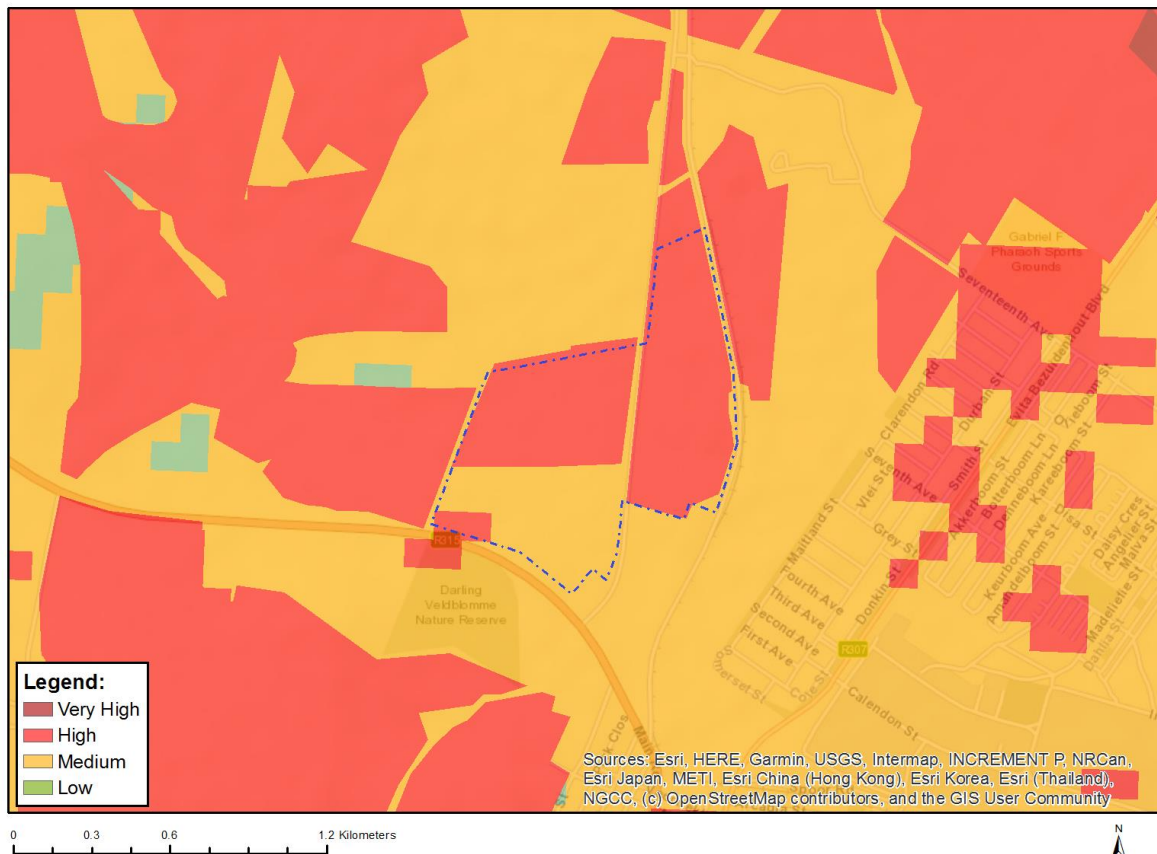
No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_WindAndSolar_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
5	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
6	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
7	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf
8	Defense Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Defense_Assessment_Protocols.pdf

		ssmentProtocols/Gazetted Defence Installations Assessment Protocols.pdf
9	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
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

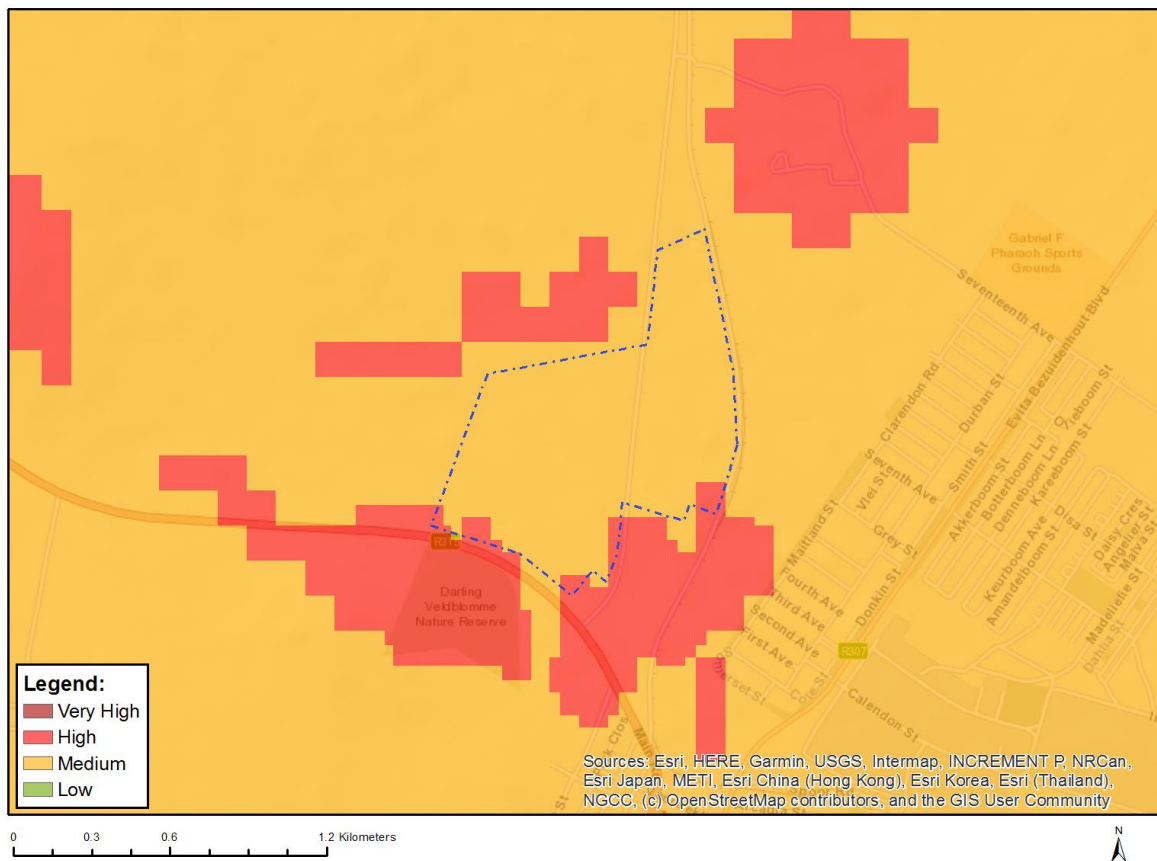


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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 Features:

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

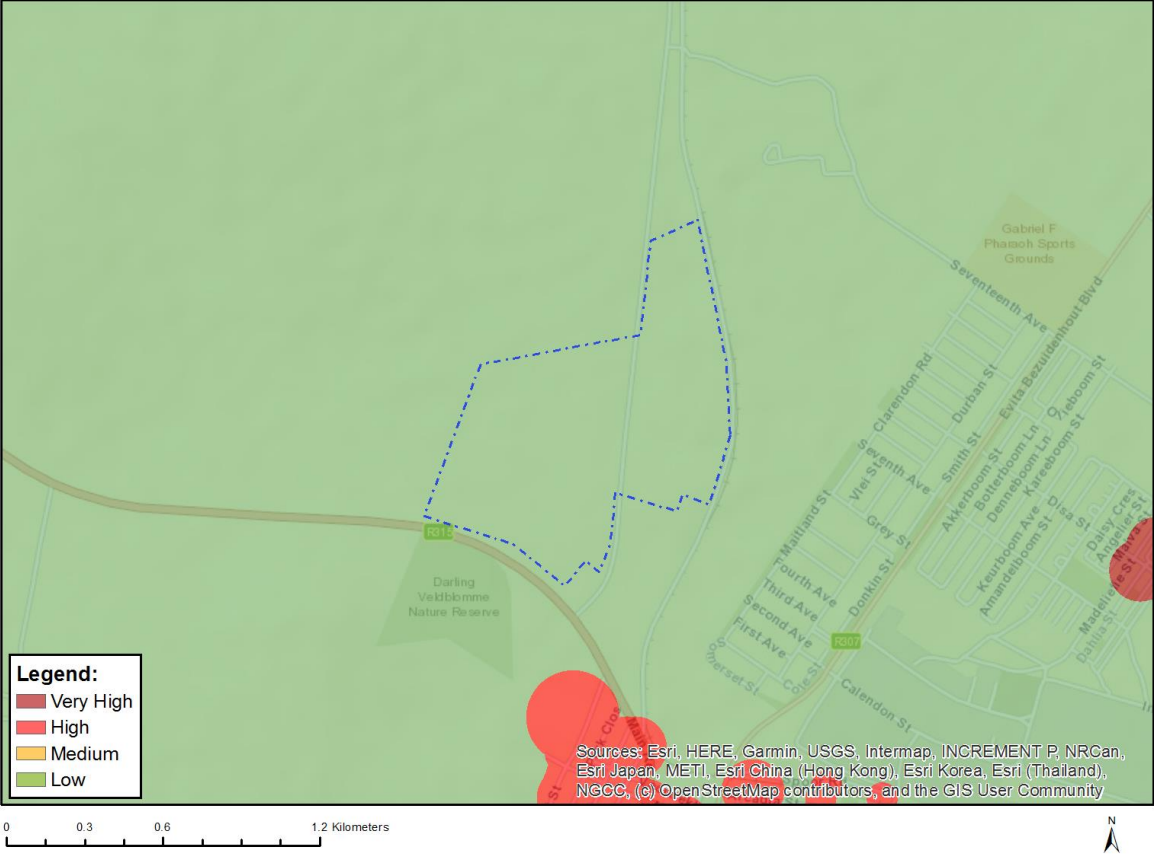


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE AVIAN THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE CIVIL AVIATION (SOLAR PV) THEME SENSITIVITY

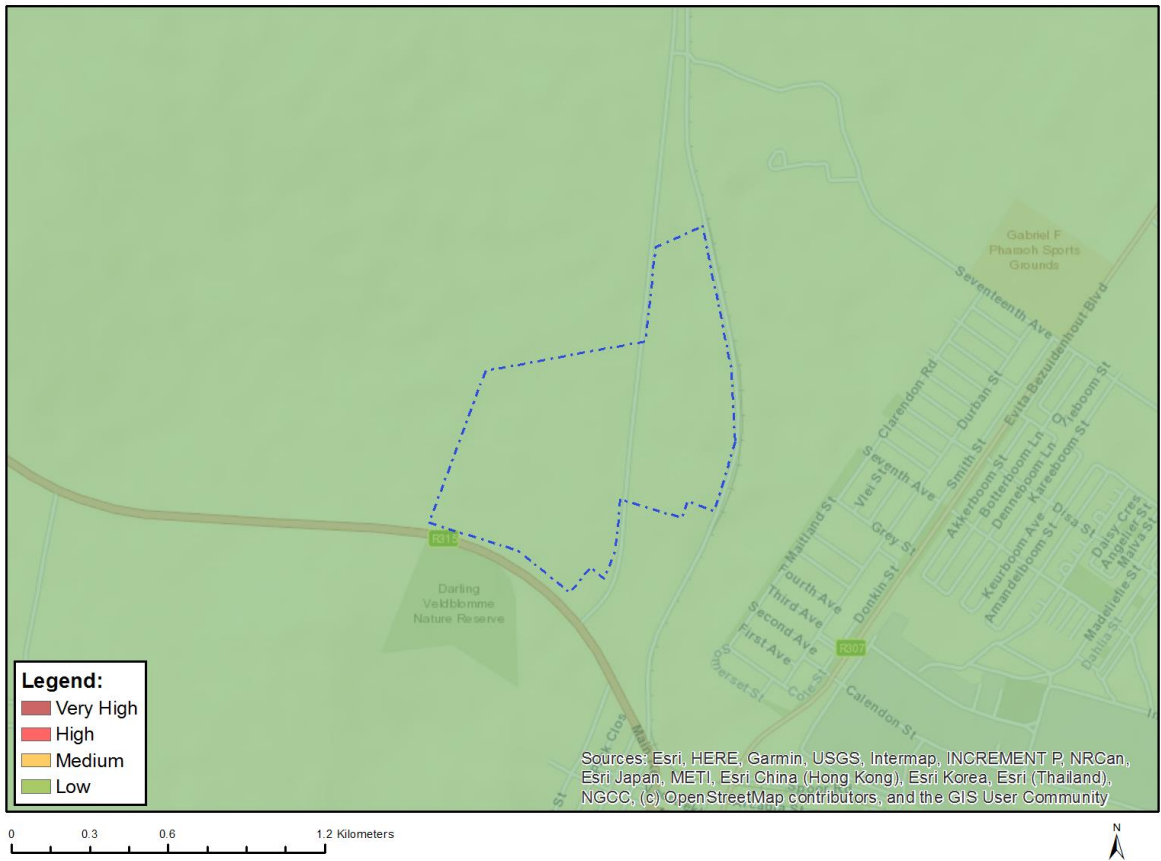


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

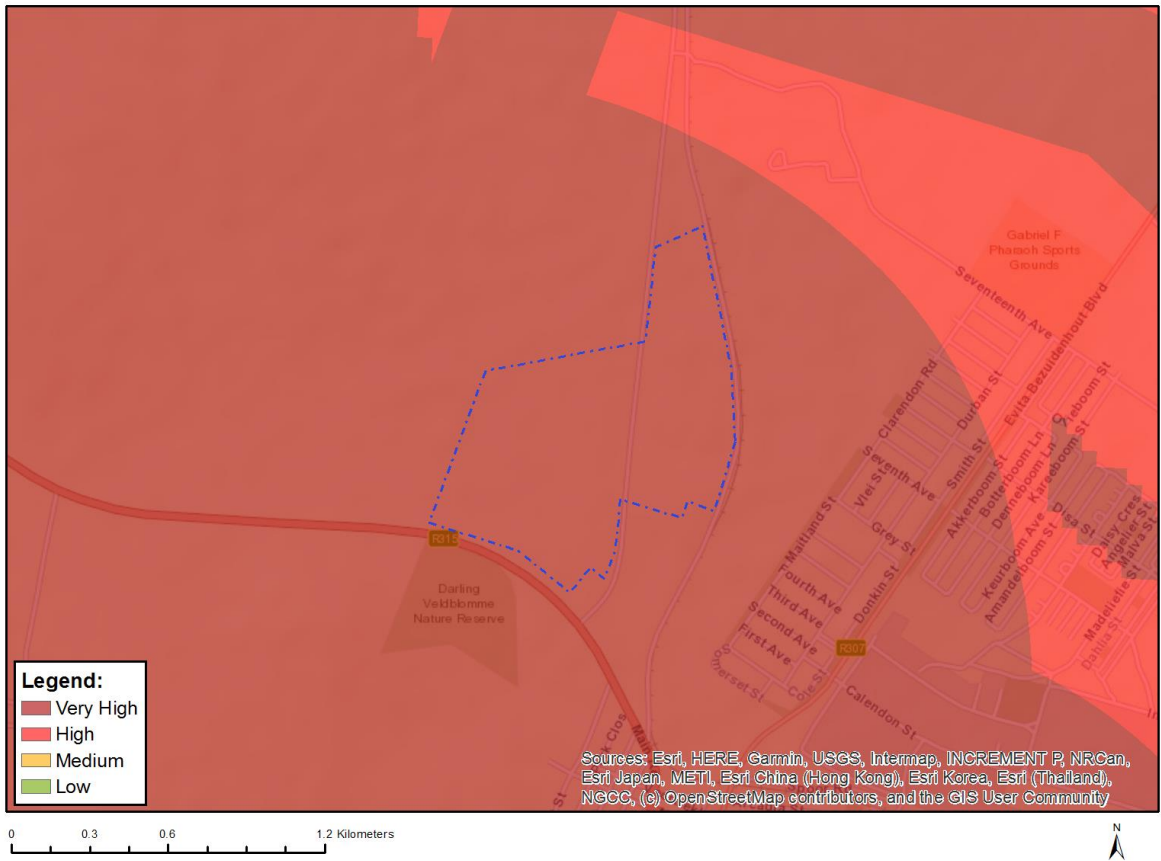


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE LANDSCAPE (SOLAR) THEME SENSITIVITY

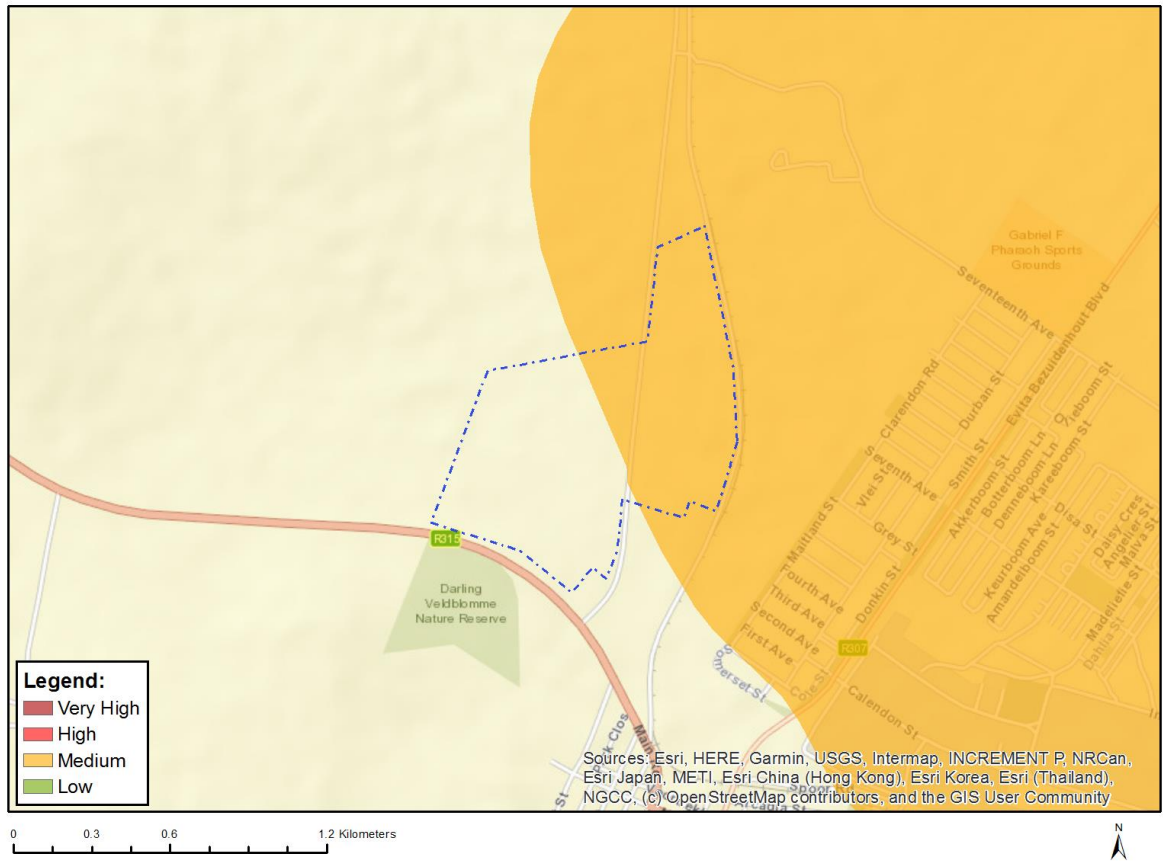


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

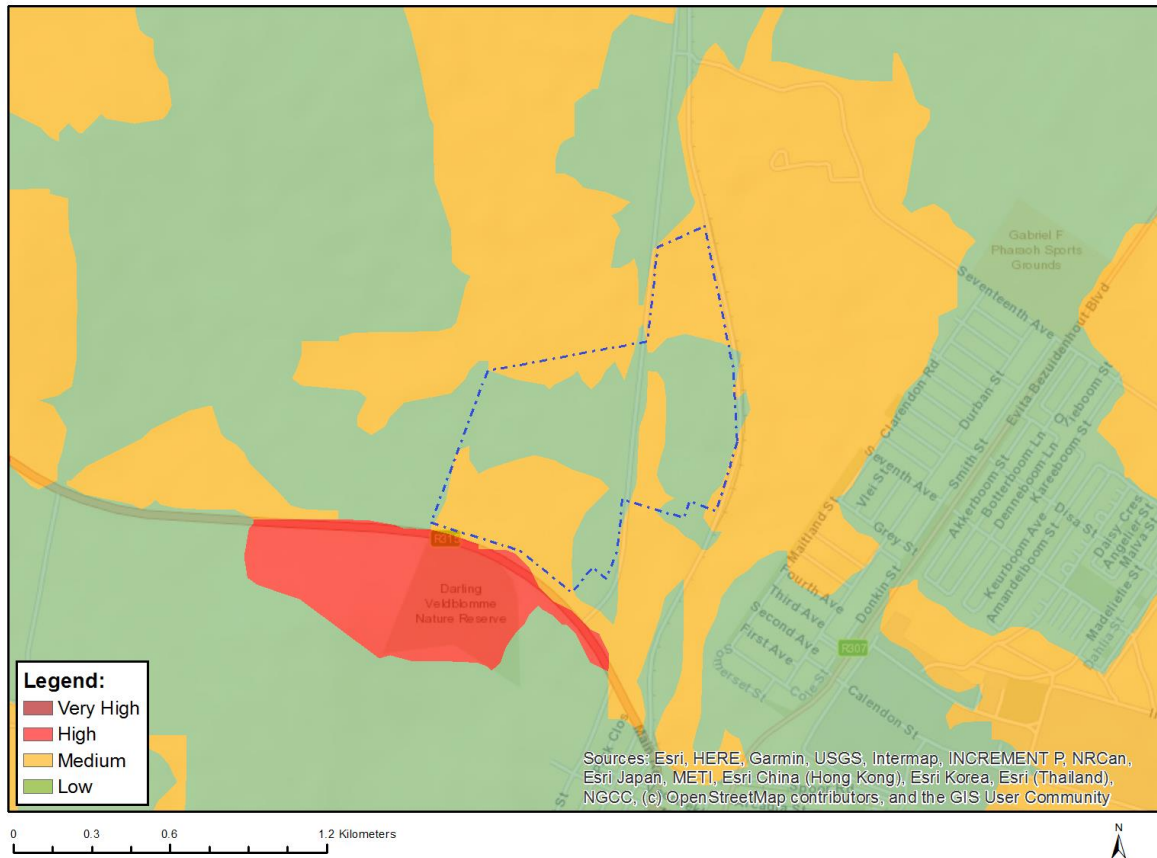


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

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

MAP OF RELATIVE PLANT 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 Features:

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

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

MAP OF RELATIVE RFI THEME SENSITIVITY

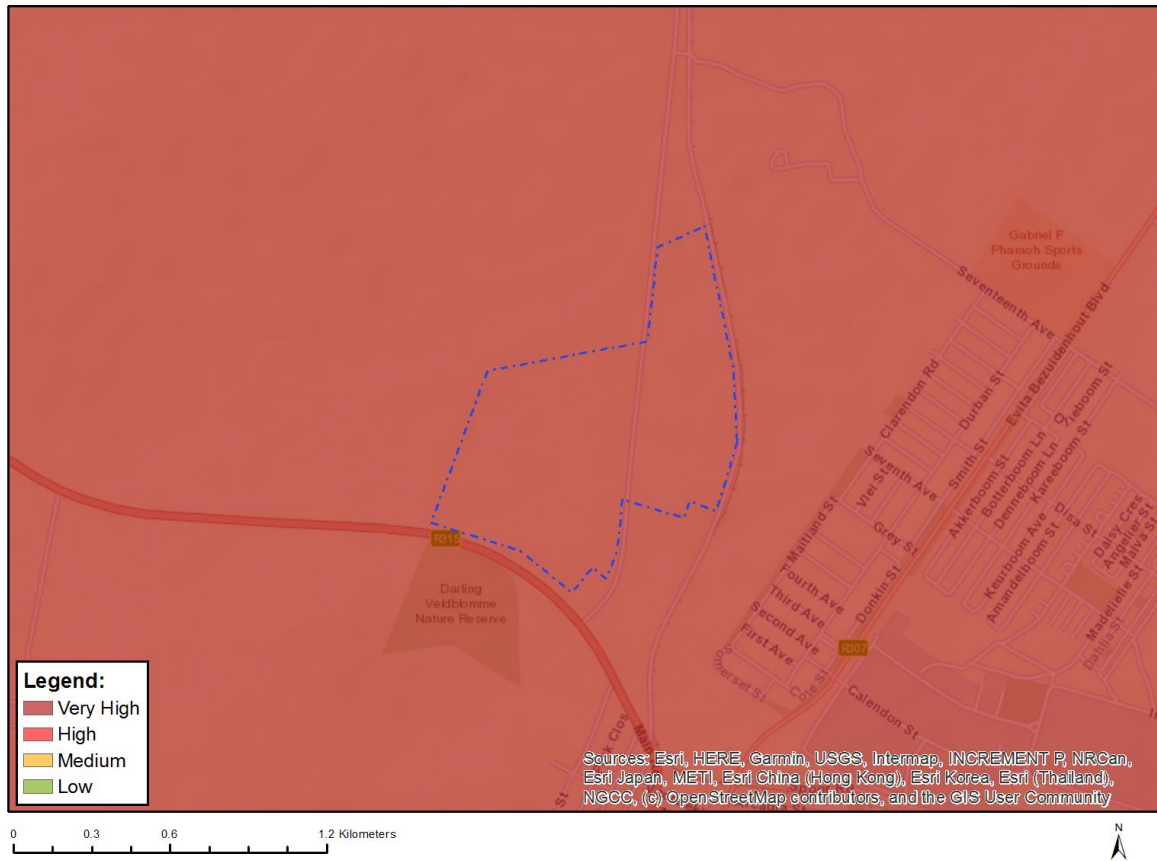


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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