

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

EIA Reference number:

Project name: Malmesbury Solar PV - powerlines

Project title: Malmesbury Solar PV

Date screening report generated: 15/05/2024 11:52:56

Applicant: Swartland Municipality

Compiler: EnviroAfrica

Compiler signature:
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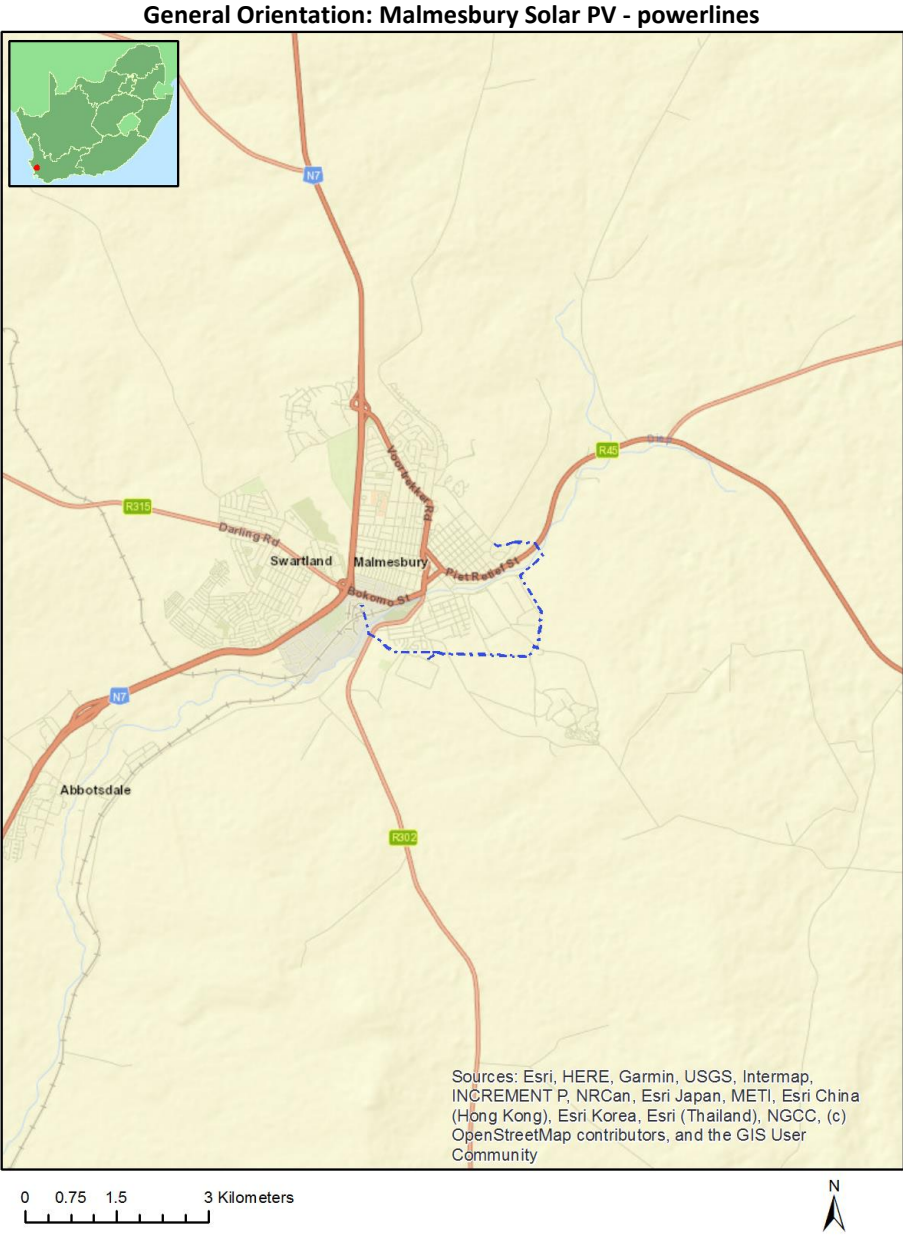
Application Category: Utilities Infrastructure | Electricity | Distribution and Transmission | Powerline

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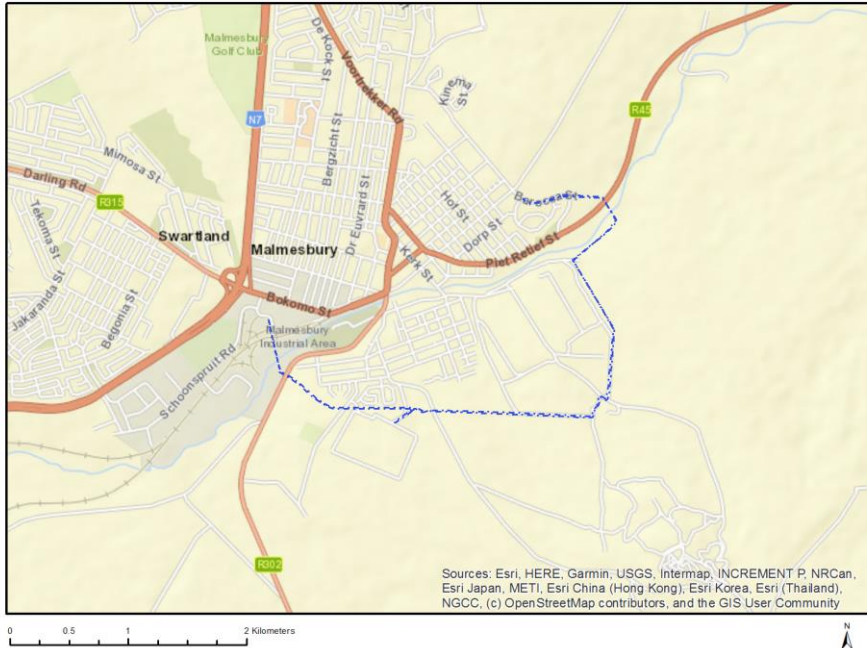
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Proposed Project Location

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	MALMESBURY	7136	0	33°28'22.66S	18°43'46.8E	Erven
2	MALMESBURY	4484	0	33°27'37.07S	18°44'23.67E	Erven
3	MALMESBURY	9406	0	33°27'35.52S	18°44'25.06E	Erven
4	MALMESBURY	1131	0	33°28'3.64S	18°43'12.04E	Erven
5	MALMESBURY	7135	0	33°28'22.63S	18°43'47.46E	Erven
6	MALMESBURY	7191	0	33°28'33.78S	18°43'56.2E	Erven
7	MALMESBURY	9407	0	33°27'35.54S	18°44'26.04E	Erven
8	MALMESBURY	1528	0	33°28'8.58S	18°43'26.94E	Erven
9	MALMESBURY	1530	0	33°28'6.17S	18°43'24.71E	Erven
10	MALMESBURY	7137	0	33°28'22.66S	18°43'46.18E	Erven
11	MALMESBURY	7189	0	33°28'23.29S	18°43'42.66E	Erven
12	MALMESBURY	7190	0	33°28'25.53S	18°43'47.39E	Erven
13	MALMESBURY	1534	0	33°28'9.68S	18°43'9.81E	Erven
14	MALMESBURY	327	0	33°28'23.21S	18°43'19.08E	Erven
15	MALMESBURY	11228	0	33°28'3.3S	18°45'4.39E	Erven
16	MALMESBURY	327	0	33°28'23.17S	18°44'35.29E	Erven
17	MALMESBURY	12356	0	33°27'47.53S	18°44'29.78E	Erven
18	MALMESBURY	12535	0	33°28'22.5S	18°44'35.27E	Erven
19	MALMESBURY	9401	0	33°27'34.98S	18°44'28.26E	Erven
20	MALMESBURY	12357	0	33°27'47.55S	18°44'29.78E	Erven
21	MALMESBURY	12353	0	33°27'10.03S	18°44'39.43E	Erven
22	MALMESBURY	6906	0	33°28'18.34S	18°43'43.03E	Erven
23	MALMESBURY	4847	0	33°27'27.04S	18°44'29.23E	Erven
24	MALMESBURY	1534	0	33°28'9.49S	18°43'9.82E	Erven
25	MALMESBURY	12536	0	33°28'22.19S	18°44'35.27E	Erven
26	MALMESBURY	12352	0	33°27'10.17S	18°44'39.43E	Erven
27	MALMESBURY	13052	0	33°28'2.57S	18°43'30.27E	Erven
28	MALMESBURY	12355	0	33°28'23.54S	18°44'35.31E	Erven

29	MALMESBURY	327	0	33°28'2.95S	18°45'4.33E	Erven
30	MALMESBURY	13056	0	33°28'1.16S	18°43'37.62E	Public Place

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	12/12/20/2400/AM2	Solar PV	Approved	23.9
2	12/12/20/2109/AM1	Solar PV	Approved	16.1
3	12/12/20/2638	Wind	Approved	22.3
4	12/12/20/2384	Solar PV	Approved	8.4
5	12/12/20/2109	Solar PV	Approved	16.1
6	12/12/20/2393	Solar PV	Approved	25.5
7	12/12/20/2393/AM2	Solar PV	Approved	25.5
8	12/12/20/2638/AM2	Wind	Approved	22.3
9	12/12/20/2400	Solar PV	Approved	23.9
10	12/12/20/1985	Solar PV	Approved	25.7
11	12/12/20/2638/AM3	Wind	Approved	22.3
12	12/12/20/2109/AM2	Solar PV	Approved	16.1
13	12/12/20/2109/AM3	Solar PV	Approved	16.1

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 | Distribution and Transmission | Powerline.

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.

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.

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
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			
Civil Aviation Theme		X		
Defence Theme				X
Paleontology Theme			X	
Plant Species 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.

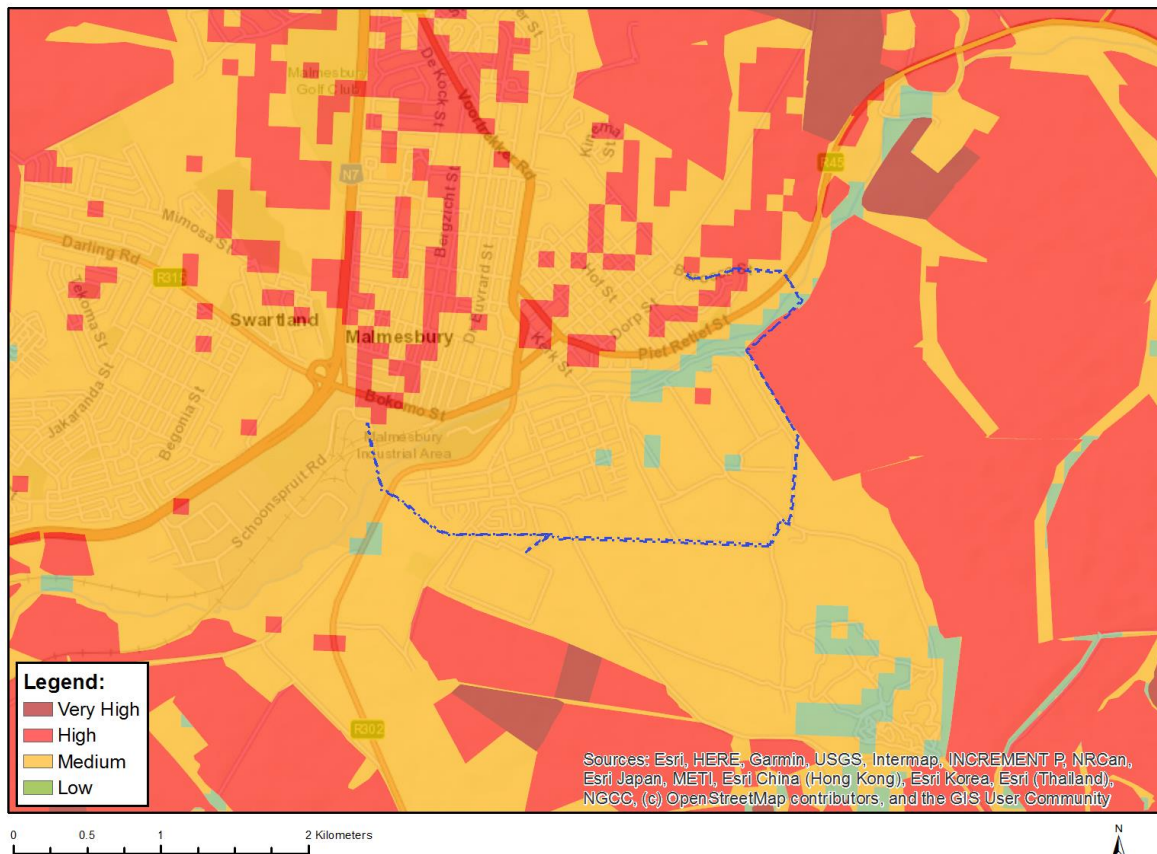
No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.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

		ssmentProtocols/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	Avian Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Avifauna_Assessment_Protocols.pdf
8	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_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	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
12	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

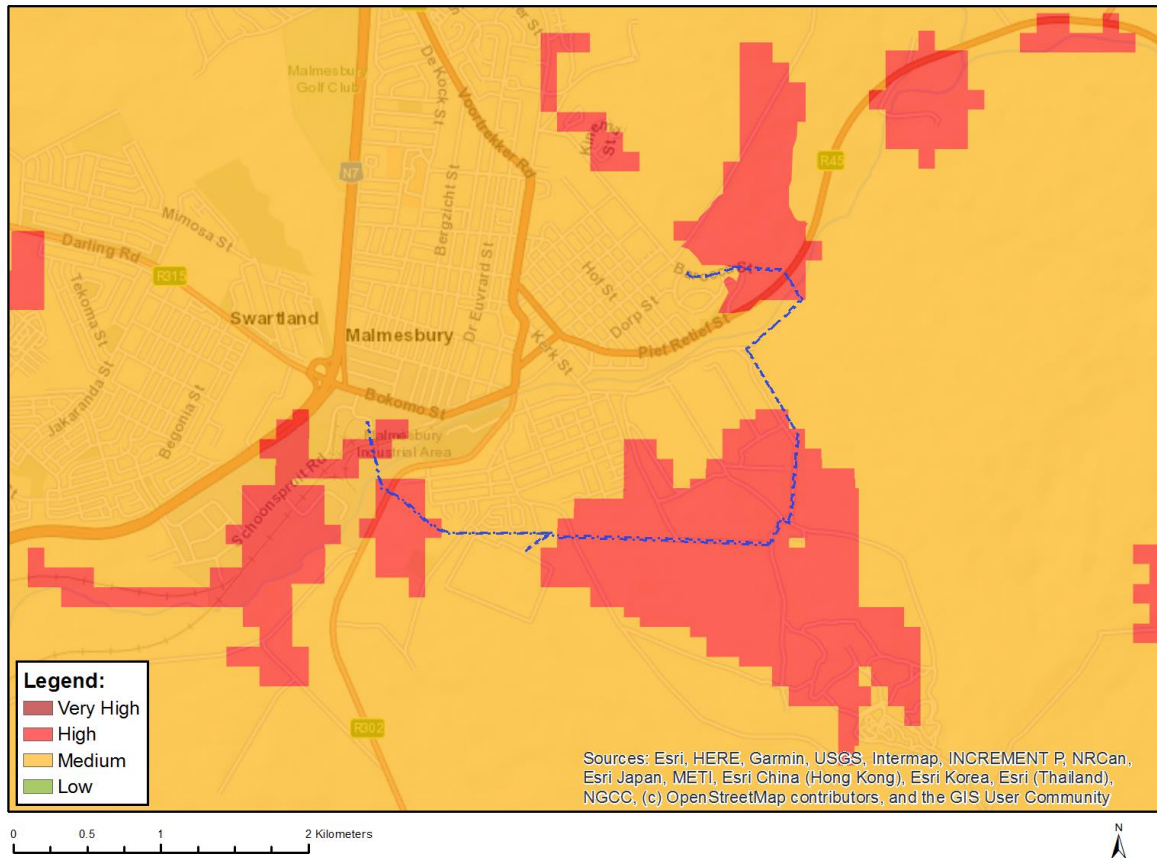


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate
Low	Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



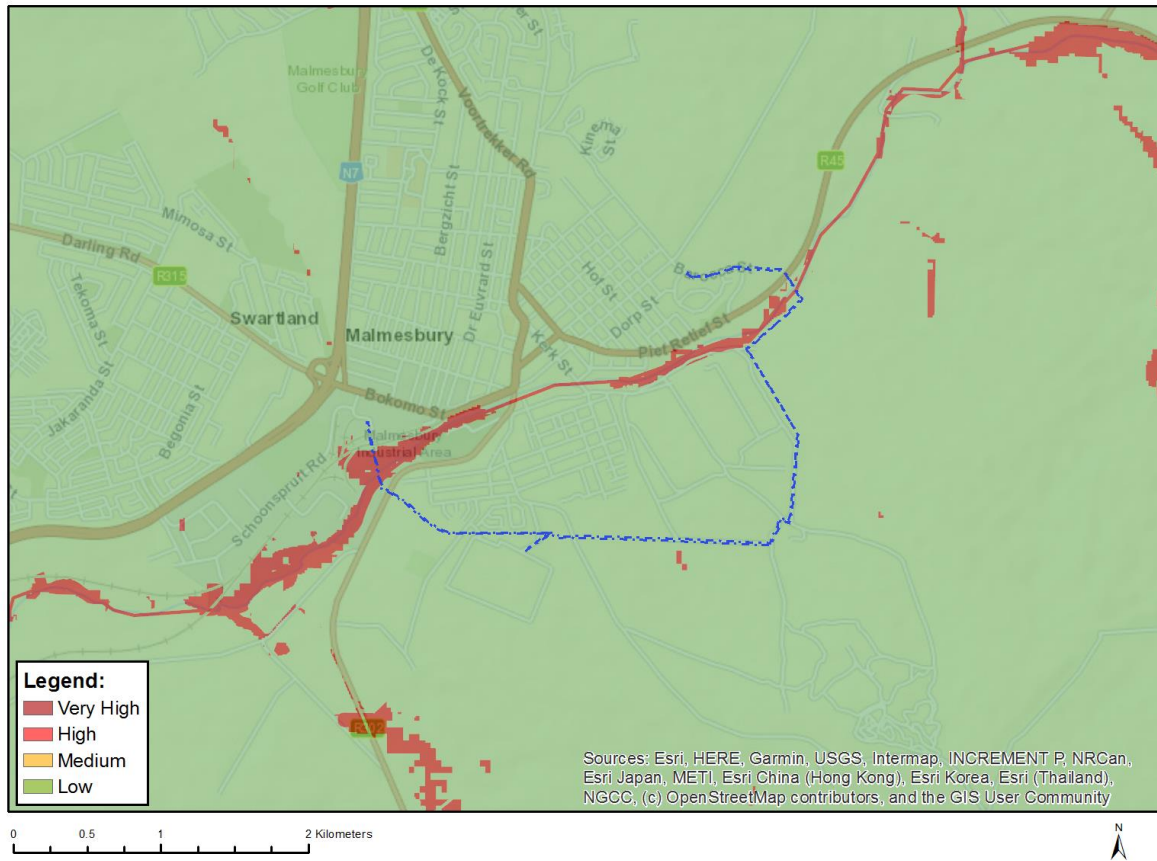
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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-Sagittarius serpentarius
High	Insecta-Lepidochrysops bacchus
Medium	Aves-Afrotis afra
Medium	Invertebrate-Pachysoma aesculapius
Medium	Invertebrate-Aneuryphymus montanus
Medium	Arachnida-Scytodes gooldi

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

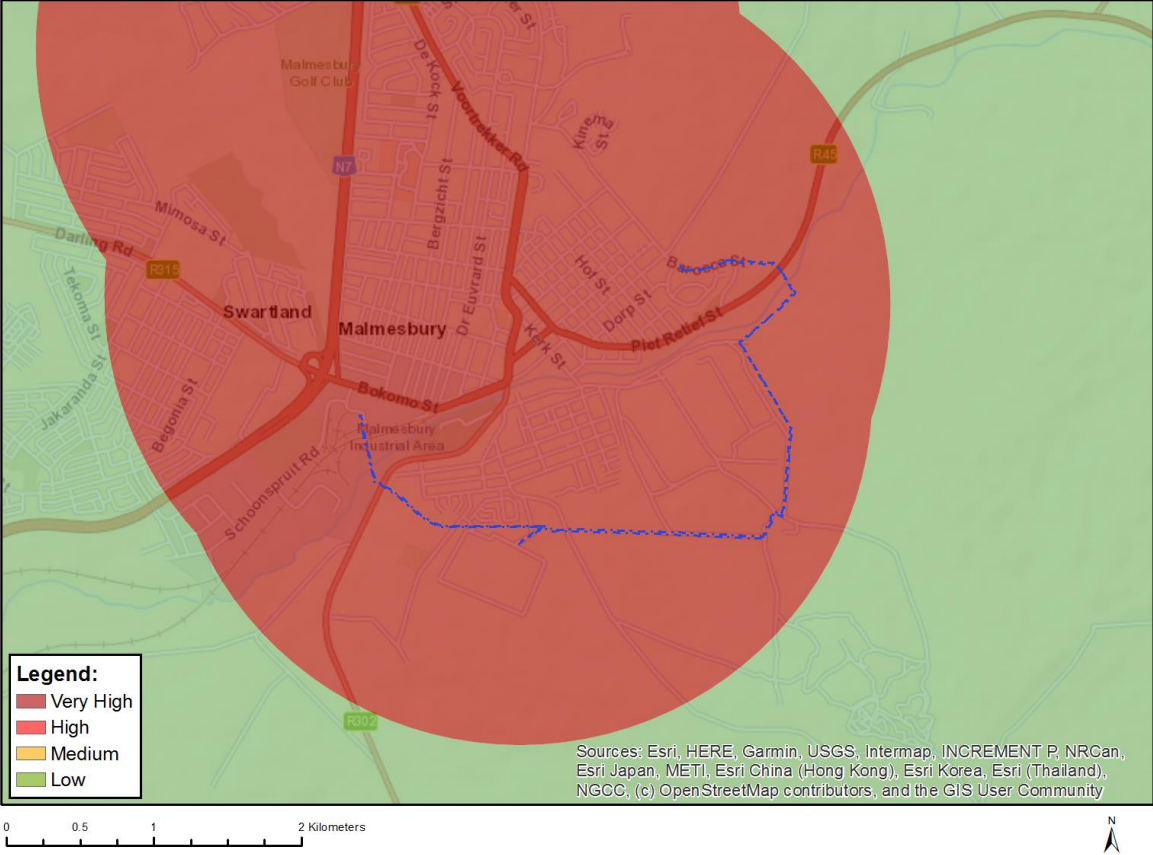


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	CBA 1: Aquatic
Very High	ESA 1: Aquatic
Very High	Rivers_C

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

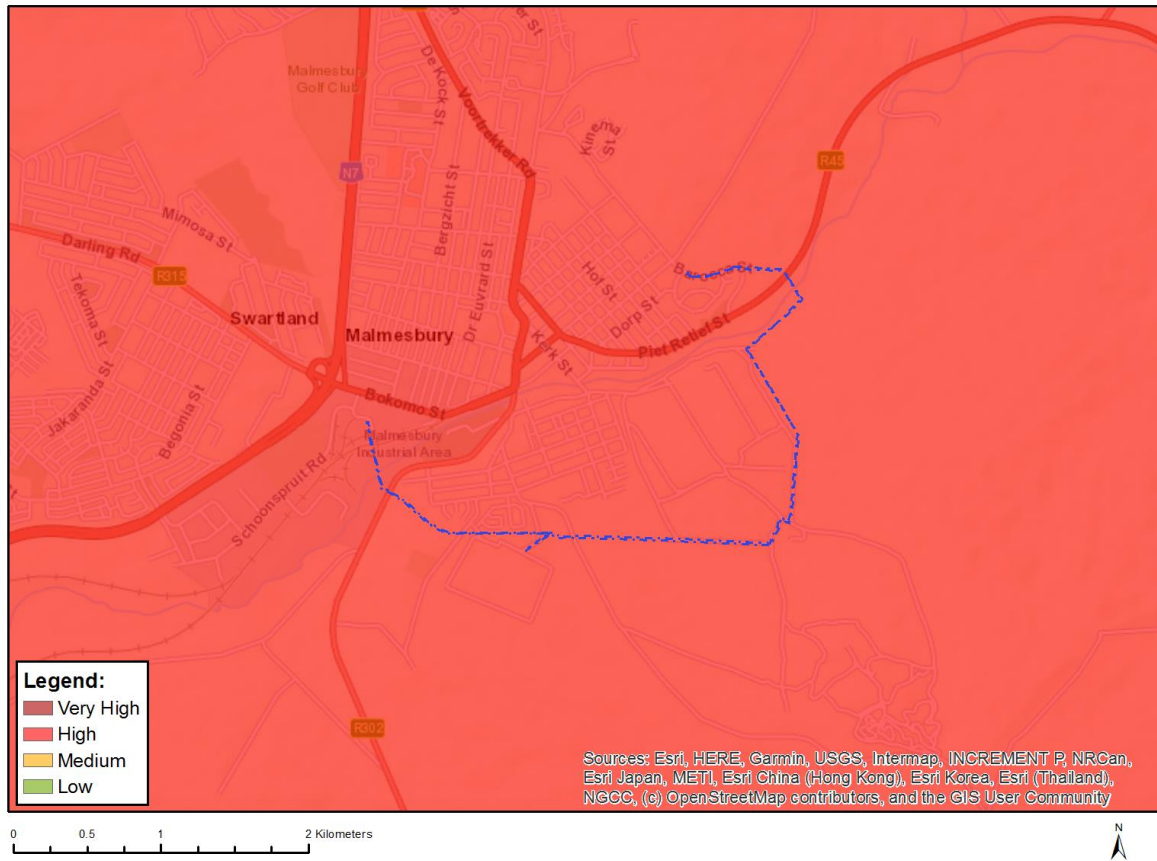


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Within 2km of a Grade II Heritage site

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 8 km of other civil aviation aerodrome
High	Dangerous and restricted airspace as demarcated

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

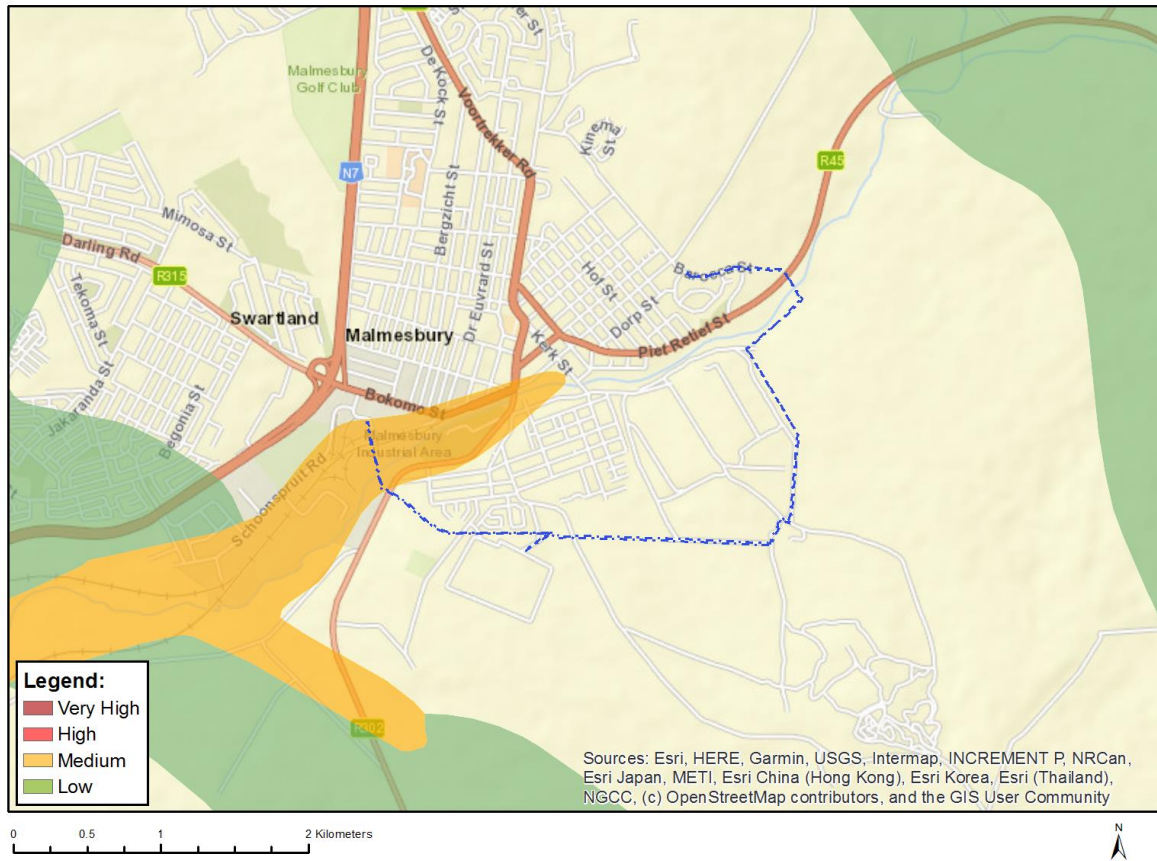


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

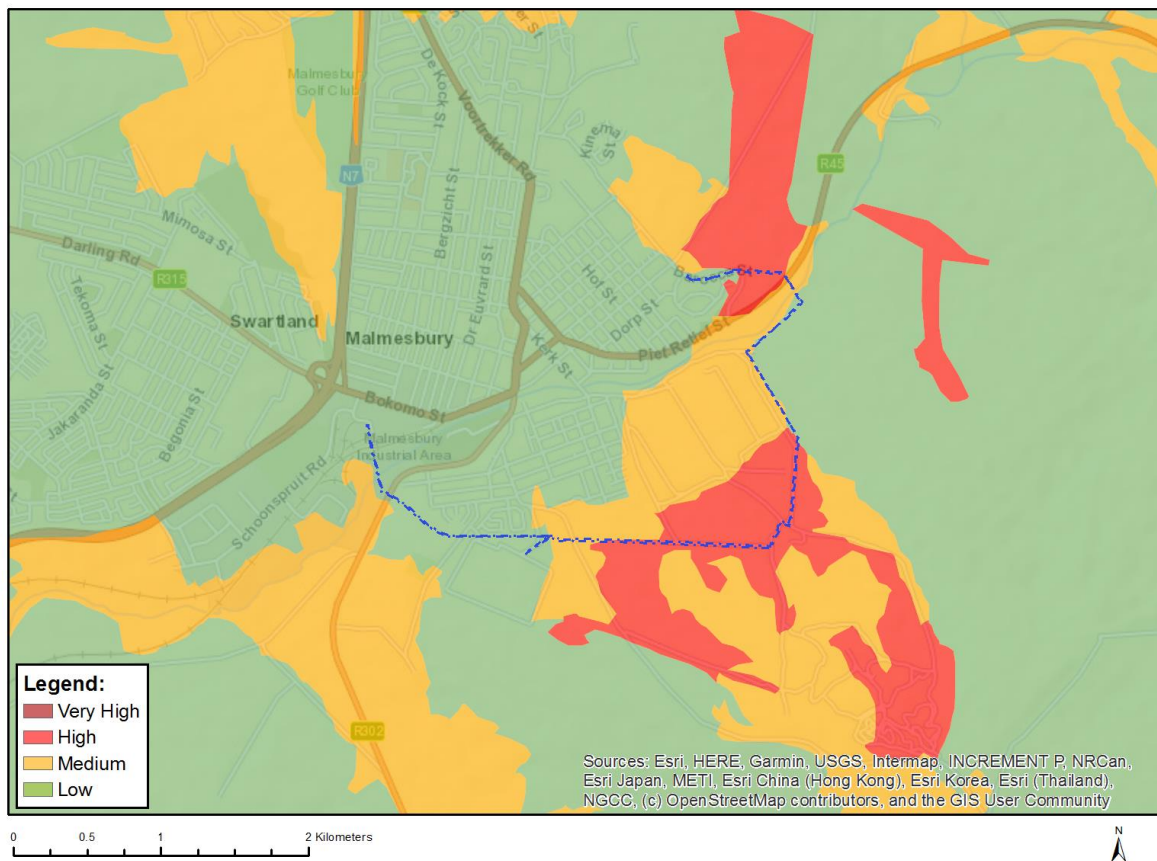


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

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:

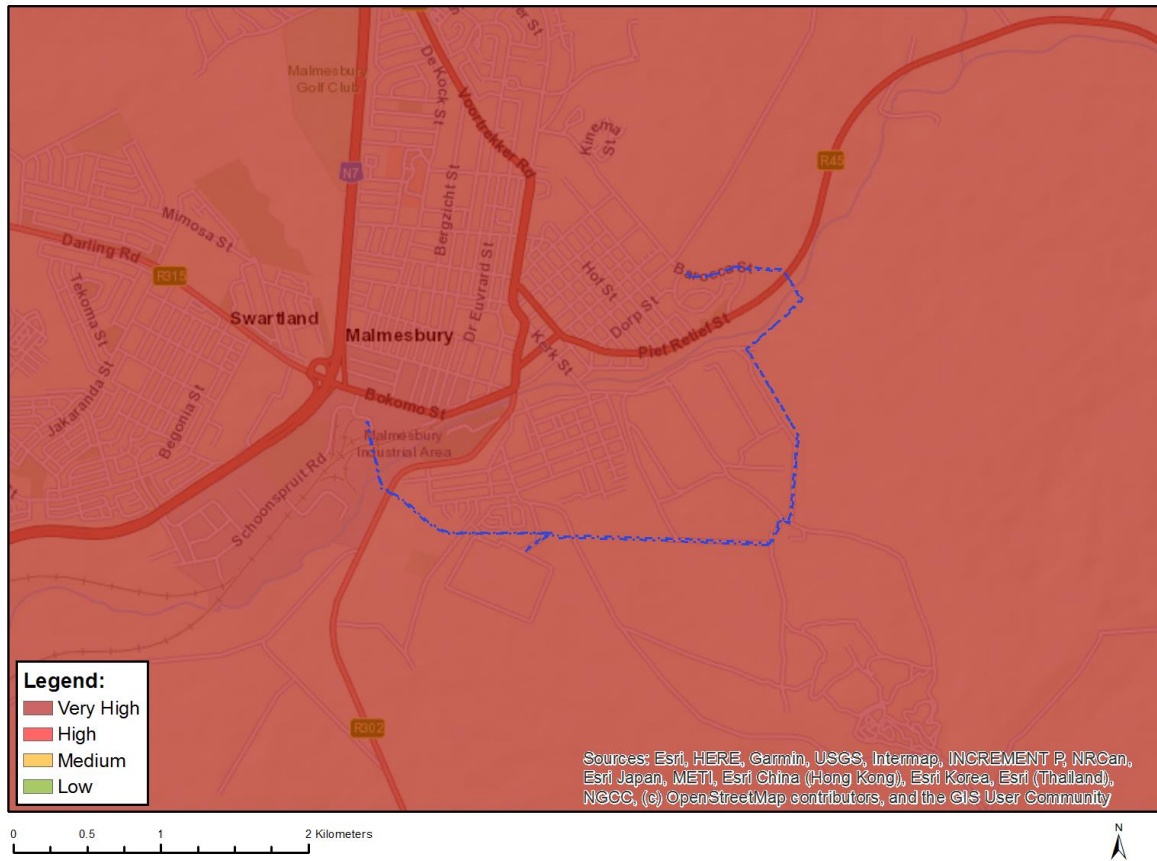
Sensitivity	Feature(s)
High	<i>Lampranthus sociorum</i>
High	<i>Lampranthus spiniformis</i>
High	<i>Antimima mucronata</i>
High	<i>Ruschia diversifolia</i>
High	<i>Ruschia geminiflora</i>
High	<i>Aspalathus aculeata</i>
High	<i>Aspalathus glabrata</i>
High	<i>Aspalathus muraltioides</i>
High	<i>Aspalathus rycroftii</i>
High	<i>Rafnia angulata</i> subsp. <i>ericifolia</i>
High	<i>Lebeckia plukenetiana</i>
High	<i>Leucadendron lanigerum</i> var. <i>lanigerum</i>
High	<i>Merciera tetraloba</i>

High	Sensitive species 631
High	<i>Geissorhiza malmesburiensis</i>
High	Sensitive species 1146
High	Sensitive species 324
High	<i>Metalasia capitata</i>
High	<i>Metalasia octoflora</i>
High	<i>Agathosma latipetala</i>
High	<i>Muraltia macropetala</i>
High	<i>Wurmbea inusta</i>
High	<i>Phylica stenopetala</i> var. <i>stenopetala</i>
High	<i>Phylica strigulosa</i>
High	<i>Phylica thunbergiana</i>
High	<i>Codonrhiza azurea</i>
Low	Low Sensitivity
Medium	<i>Lampranthus aureus</i>
Medium	<i>Lampranthus dilutus</i>
Medium	<i>Lampranthus filicaulis</i>
Medium	<i>Lampranthus leptaleon</i>
Medium	<i>Lampranthus peacockiae</i>
Medium	<i>Lampranthus scaber</i>
Medium	<i>Lampranthus sociorum</i>
Medium	<i>Lampranthus spiniformis</i>
Medium	Sensitive species 210
Medium	<i>Antimima mucronata</i>
Medium	<i>Antimima aristulata</i>
Medium	<i>Erepsia patula</i>
Medium	<i>Erepsia ramosa</i>
Medium	<i>Ruschia diversifolia</i>
Medium	<i>Ruschia geminiflora</i>
Medium	<i>Ruschia schollii</i>
Medium	<i>Drosanthemum hispifolium</i>
Medium	<i>Cephalophyllum parviflorum</i>
Medium	<i>Xiphotheca lanceolata</i>
Medium	<i>Indigofera psoraloides</i>
Medium	<i>Aspalathus acanthophylla</i>
Medium	<i>Aspalathus aculeata</i>
Medium	<i>Aspalathus araneosa</i>
Medium	<i>Aspalathus glabrata</i>
Medium	<i>Aspalathus horizontalis</i>
Medium	<i>Aspalathus lotoides</i> subsp. <i>lotoides</i>
Medium	<i>Aspalathus muraltioides</i>
Medium	<i>Aspalathus puberula</i>
Medium	<i>Aspalathus rycroftii</i>
Medium	<i>Aspalathus stricticlada</i>
Medium	<i>Aspalathus varians</i>
Medium	<i>Aspalathus wurmbeana</i>
Medium	<i>Rafnia lancea</i>
Medium	<i>Rafnia angulata</i> subsp. <i>ericifolia</i>
Medium	<i>Lebeckia plukenetiana</i>
Medium	<i>Podalyria microphylla</i>
Medium	<i>Podalyria sericea</i>
Medium	<i>Lotononis densa</i> subsp. <i>densa</i>
Medium	<i>Leucadendron corymbosum</i>
Medium	<i>Leucadendron lanigerum</i> var. <i>lanigerum</i>
Medium	<i>Leucadendron thymifolium</i>
Medium	<i>Leucospermum grandiflorum</i>
Medium	<i>Leucospermum hypophyllocarpodendron</i> subsp. <i>canaliculatum</i>
Medium	<i>Leucospermum hypophyllocarpodendron</i> subsp. <i>hypophyllocarpodendron</i>
Medium	<i>Leucospermum parile</i>
Medium	<i>Protea burchellii</i>

Medium	<i>Diastella proteoides</i>
Medium	<i>Serruria brownii</i>
Medium	<i>Serruria incrassata</i>
Medium	<i>Serruria linearis</i>
Medium	<i>Serruria roxburghii</i>
Medium	<i>Merciera tetraloba</i>
Medium	<i>Treichelia dodii</i>
Medium	<i>Pentameris bachmannii</i>
Medium	<i>Pentameris pholiuroides</i>
Medium	<i>Anthospermum ericifolium</i>
Medium	<i>Lobostemon capitatus</i>
Medium	<i>Echiostachys incanus</i>
Medium	<i>Echiostachys spicatus</i>
Medium	<i>Aristea lugens</i>
Medium	<i>Hesperantha sufflava</i>
Medium	Sensitive species 14
Medium	Sensitive species 267
Medium	Sensitive species 631
Medium	Sensitive species 331
Medium	Sensitive species 533
Medium	Sensitive species 1134
Medium	Sensitive species 785
Medium	<i>Geissorhiza furva</i>
Medium	<i>Geissorhiza malmesburiensis</i>
Medium	<i>Geissorhiza monanthos</i>
Medium	<i>Geissorhiza purpurascens</i>
Medium	<i>Geissorhiza radians</i>
Medium	<i>Geissorhiza setacea</i>
Medium	<i>Geissorhiza erosa</i>
Medium	<i>Ixia abbreviata</i>
Medium	<i>Ixia curta</i>
Medium	<i>Ixia erubescens</i>
Medium	<i>Ixia viridiflora</i>
Medium	<i>Ixia fuscocitrina</i>
Medium	Sensitive species 560
Medium	<i>Romulea eximia</i>
Medium	Sensitive species 1047
Medium	Sensitive species 1
Medium	Sensitive species 830
Medium	Sensitive species 1140
Medium	Sensitive species 995
Medium	Sensitive species 1146
Medium	<i>Pauridia alba</i>
Medium	<i>Pauridia canaliculata</i>
Medium	<i>Pauridia pygmaea</i>
Medium	<i>Monopsis variifolia</i>
Medium	<i>Hermannia rugosa</i>
Medium	Sensitive species 222
Medium	Sensitive species 444
Medium	Sensitive species 324
Medium	Sensitive species 18
Medium	Sensitive species 259
Medium	Sensitive species 478
Medium	Sensitive species 756
Medium	<i>Adenogramma rigida</i>
Medium	<i>Wachendorfia brachyandra</i>
Medium	Sensitive species 133
Medium	<i>Trianoptiles solitaria</i>
Medium	<i>Hypodiscus rugosus</i>
Medium	<i>Restio duthieae</i>

Medium	<i>Restio papillosus</i>
Medium	<i>Anisodonteia biflora</i>
Medium	Sensitive species 985
Medium	Sensitive species 120
Medium	Sensitive species 266
Medium	<i>Pterygodium inversum</i>
Medium	<i>Gnidia spicata</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>Macrostylis villosa</i> subsp. <i>villosa</i>
Medium	<i>Cliffortia acockii</i>
Medium	<i>Muraltia decipiens</i>
Medium	<i>Muraltia macropetala</i>
Medium	Sensitive species 1135
Medium	Sensitive species 382
Medium	Sensitive species 158
Medium	Sensitive species 723
Medium	Sensitive species 616
Medium	<i>Wurmbea inusta</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>Codonrhiza azurea</i>
Medium	<i>Lampranthus debilis</i>
Medium	<i>Lampranthus glaucus</i>
Medium	<i>Drosanthemum striatum</i>
Medium	<i>Xiphotheca reflexa</i>
Medium	<i>Psoralea alata</i>
Medium	<i>Aponogeton fugax</i>
Medium	Sensitive species 593
Medium	Sensitive species 335
Medium	Sensitive species 599
Medium	<i>Restio paludosus</i>
Medium	<i>Restio rigoratus</i>
Medium	<i>Cotula pusilla</i>
Medium	Sensitive species 1225

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	National Protected Area Expansion Strategy (NPAES)
Very High	VU_Swartland Alluvium Renosterveld
Very High	EN_Swartland Granite Renosterveld