

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

EIA Reference number: 4/12/16/3/3/2/815/AM4

Project name: Bloemsmond Solar 1

Project title: EA Amendment

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Applicant: AEP Bloemsmond Solar 1

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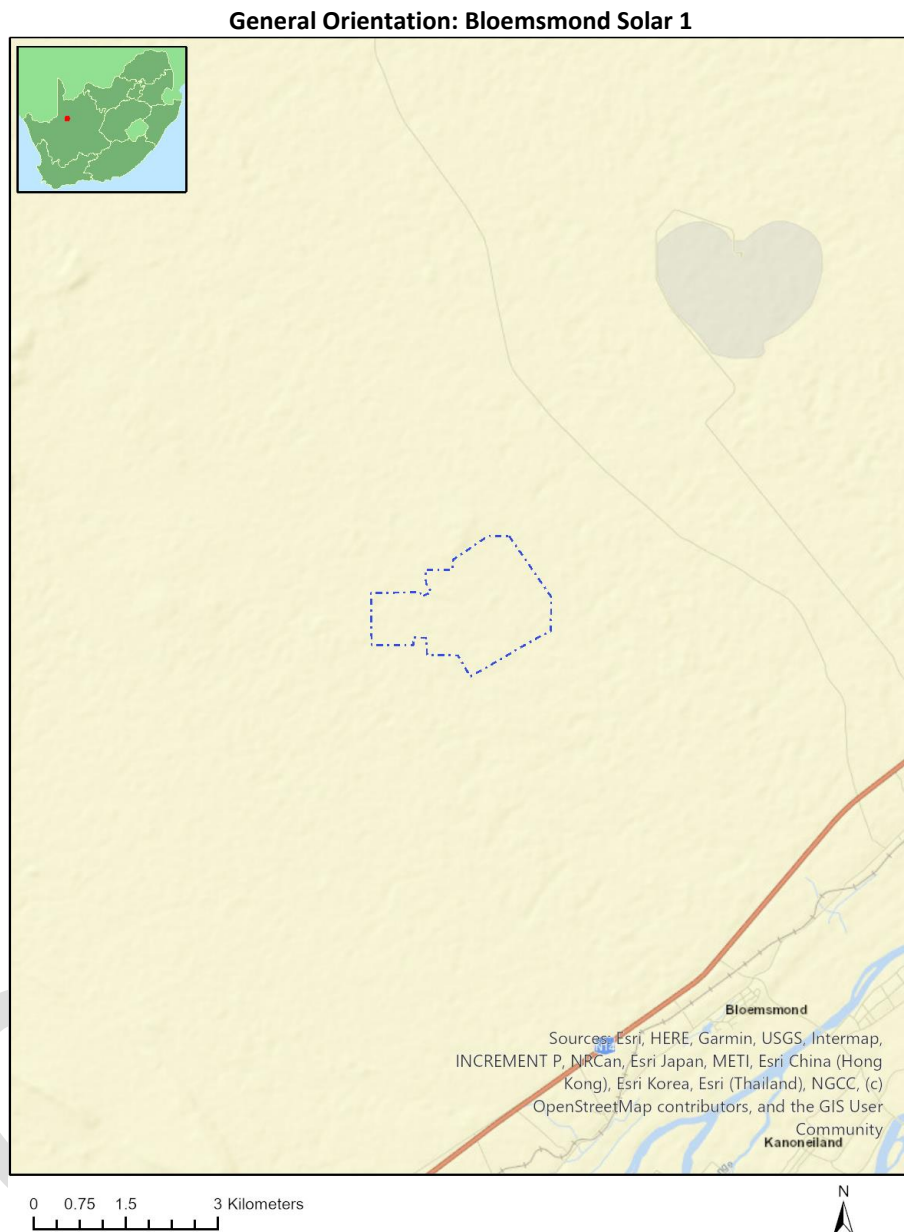
Application Category: Utilities Infrastructure|Electricity|Generation|Renewable|Solar|PV

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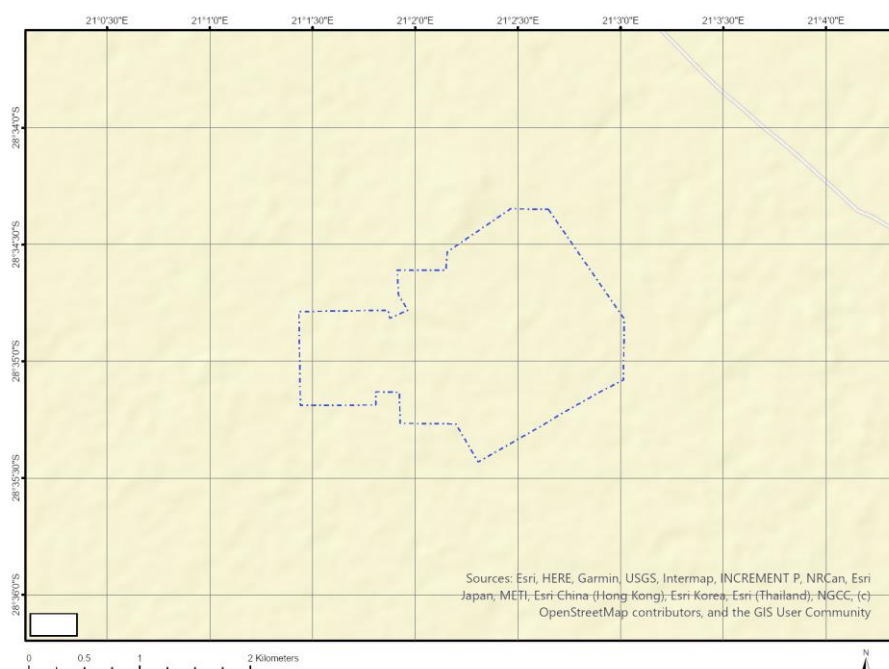
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Proposed Project Location

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	BLOEMS MOND	455	0	28°34'0.44S	21°1'16.03E	Farm
2	BLOEMS MOND	455	5	28°34'1.16S	21°0'45.33E	Farm Portion
3	BLOEMS MOND	455	14	28°33'23.71S	21°1'19.6E	Farm Portion

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

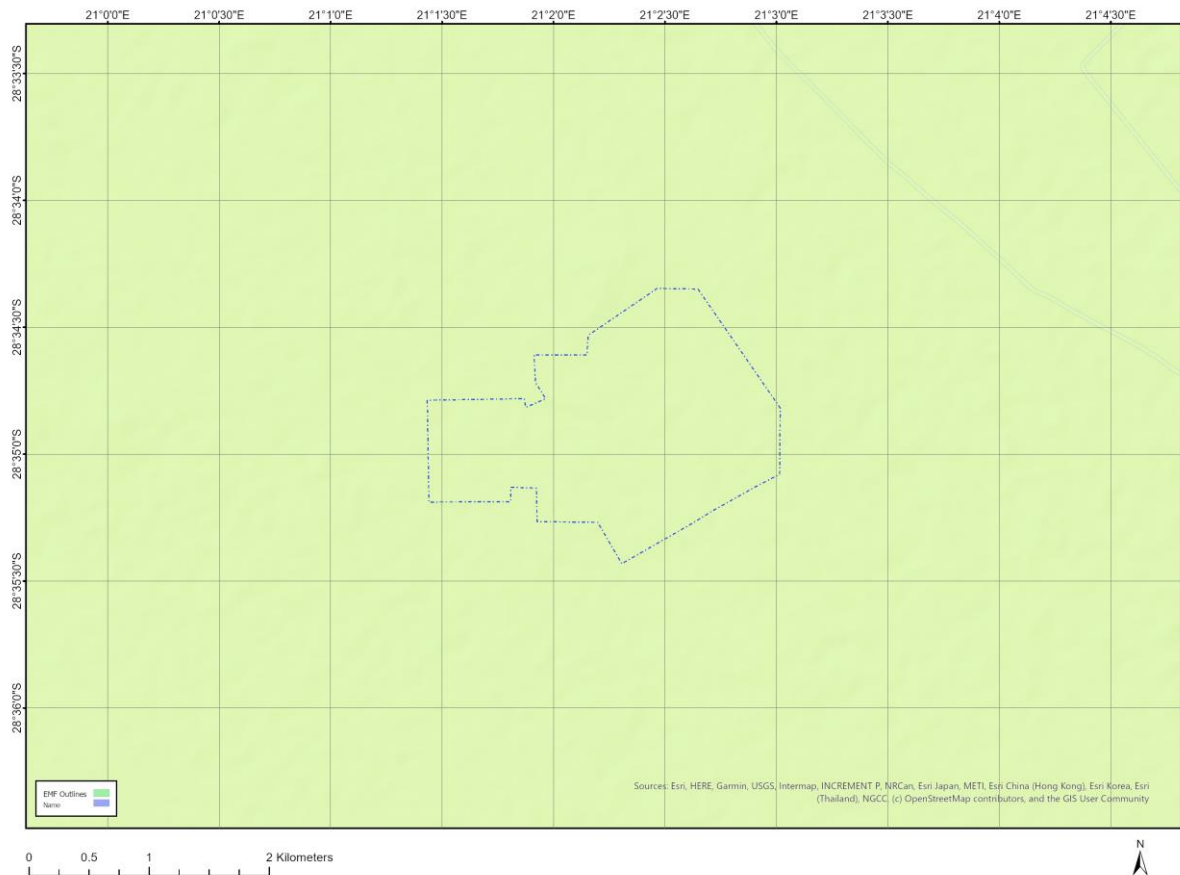
No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	14/12/16/3/3/2/656/AM1	Solar - CSP	Approved	3.7
2	14/12/16/3/3/1/2111	Solar PV	Approved	3.7
3	14/12/16/3/3/2/705	Solar PV	Approved	5.5
4	14/12/16/3/3/2/1006	Solar PV	Approved	26.2
5	14/12/16/3/3/2/481/AM4	Solar PV	Approved	3.7

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	14/12/16/3/3/2/1107	Solar PV	Approved	17.2
7	12/12/20/1831	Solar - CSP	Approved	3.7
8	12/12/20/1831/1	Solar - CSP	Approved	3.7
9	12/12/20/2518	Solar PV	Approved	18.3
10	14/12/16/3/3/3/82	Solar - CSP	Approved	11.3
11	14/12/16/3/3/1/2231/AM1	Solar PV	Approved	0
12	14/12/16/3/3/1/2676	Solar PV	Approved	8.3
13	14/12/16/3/3/1/2207	Solar PV	Approved	0.5
14	14/12/16/3/3/2/621/AM2	Solar PV	Approved	11.3
15	14/12/16/3/3/1/2210	Solar PV	Approved	0.5
16	14/12/16/3/3/1/2209	Solar PV	Approved	0.5
17	14/12/16/3/3/2/657	Solar - CSP	Approved	3.7
18	14/12/16/3/3/1/2044/AM2	Solar PV	Approved	0
19	14/12/16/3/3/1/2205	Solar PV	Approved	0.5
20	14/12/16/3/3/1/2075	Solar PV	Approved	3.7
21	12/12/20/2229	Solar PV	Approved	12.8
22	14/12/16/3/3/1/2107	Solar PV	Approved	0
23	14/12/16/3/3/2/469/AM2	Solar PV	Approved	9.1
24	14/12/16/3/3/2/538/AM3	Solar PV	Approved	0
25	14/12/16/3/3/2/538	Solar PV	Approved	0
26	12/12/20/2146	Solar PV	Approved	29.9
27	14/12/16/3/3/2/656	Solar - CSP	Approved	3.7
28	14/12/16/3/3/1/2043	Solar PV	Approved	0
29	14/12/16/3/3/2/1106	Solar PV	Approved	22.6
30	14/12/16/3/3/1/1578	Solar - CSP	Approved	3.5
31	14/12/16/3/3/1/2204	Solar PV	Approved	0.5
32	14/12/16/3/3/1/2231	Solar PV	Approved	0
33	14/12/16/3/3/1/2110	Solar PV	Approved	7.1
34	14/12/16/3/3/1/2208	Solar PV	Approved	0.5
35	14/12/16/3/3/1/2113	Solar PV	Approved	3.7
36	12/12/20/2230	Solar PV	Approved	0.5
37	12/12/20/2229/AM4	Solar PV	Approved	12.8
38	14/12/16/3/3/2/469	Solar PV	Approved	3.7
39	14/12/16/3/3/1/2203	Solar PV	Approved	3.7
40	14/12/16/3/3/2/469/AM1	Solar PV	Approved	3.7
41	14/12/16/3/3/1/2112	Solar PV	Approved	3.7
42	14/12/16/3/3/1/2209/AM1	Solar PV	Approved	0.5
43	14/12/16/3/3/1/1755	Solar PV	Approved	16.3
44	14/12/16/3/3/2/538/AM1	Solar PV	Approved	0
45	14/12/16/3/3/2/1105	Solar PV	Approved	22.6
46	14/12/16/3/3/1/1754	Solar PV	Approved	16.3
47	14/12/16/3/3/2/815	Solar PV	Approved	0
48	12/12/20/777	Solar - CSP	Approved	9
49	14/12/16/3/3/1/2042	Solar PV	Approved	0
50	14/12/16/3/3/2/621	Solar PV	Approved	17.1
51	14/12/16/3/3/2/1108	Solar PV	Approved	17.2
52	14/12/16/3/3/1/2362	Solar PV	Approved	0
53	14/12/16/3/3/1/2124	Solar PV	Approved	3.7
54	12/12/20/1831/2	Solar - CSP	Approved	3.7
55	14/12/16/3/3/2/816	Solar PV	Approved	0
56	12/12/20/1831/3	Solar PV	Approved	3.7
57	14/12/16/3/3/1/2043/AM2	Solar PV	Approved	0
58	14/12/16/3/3/2/538/1/AM3	Solar PV	Approved	0
59	14/12/16/3/3/2/631	Solar PV	Approved	19.3
60	14/12/16/3/3/2/481/AM3	Solar PV	Approved	3.7
61	14/12/16/3/3/1/2202	Solar PV	Approved	3.7
62	14/12/16/3/3/2/481/AM1	Solar PV	Approved	3.7
63	14/12/16/3/3/1/2044	Solar PV	Approved	0
64	14/12/16/3/3/2/538/1/AM1	Solar PV	Approved	0
65	12/12/20/2230/AM3	Solar PV	Approved	0.5

66	14/12/16/3/3/1/2206	Solar PV	Approved	0.5
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Environmental Management Frameworks relevant to the application



Environmental Management Framework	LINK
Siyanda District Municipality EMF	https://screening.environment.gov.za/ScreeningDownloads/EMF/SIYANDA_EMF_REPORT_2008.pdf

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	Implication
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or prohibition	
Strategic Transmission Corridor-Northern corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf
Renewable energy development zones 7-Upington	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_REDZ.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/GuidanceforHIA.pdf
4	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/GuidanceforPIA.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 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

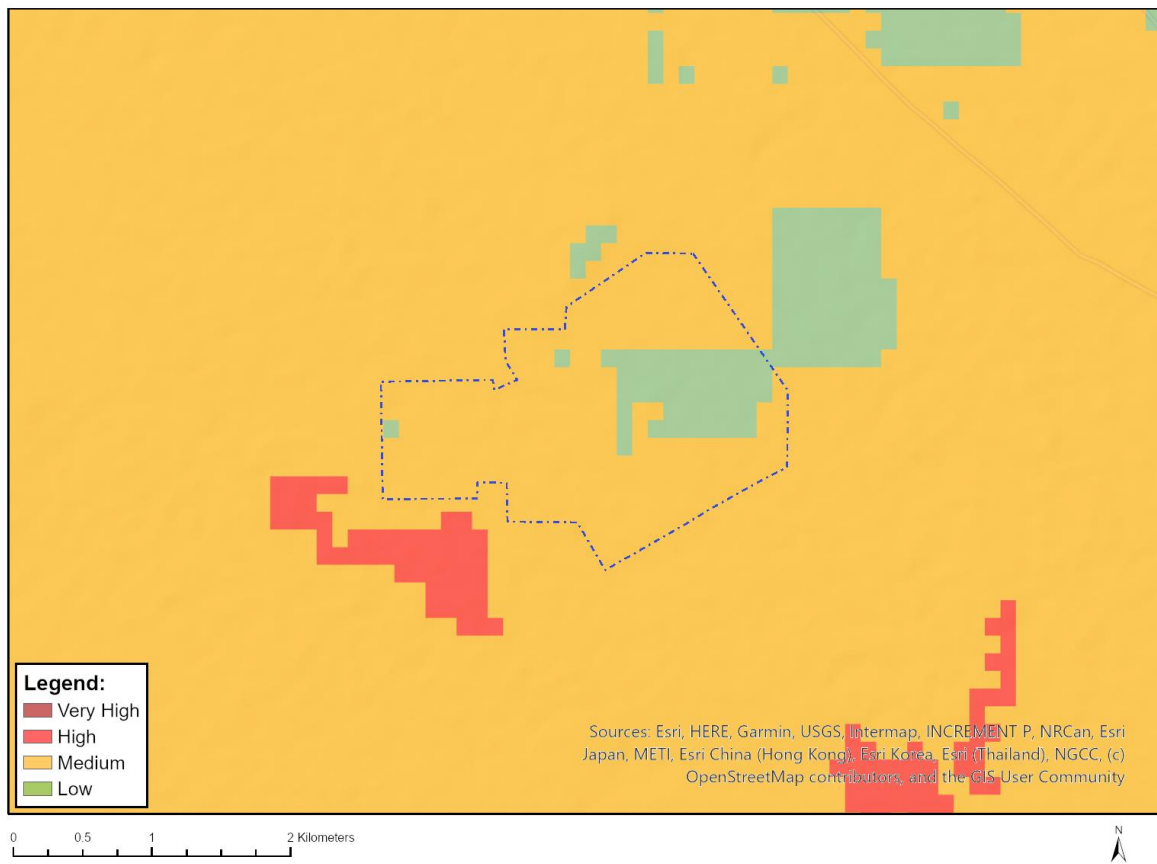


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	03. Low-Very low
Low	04. Low-Very low
Low	02. Very low
Low	05. Low

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



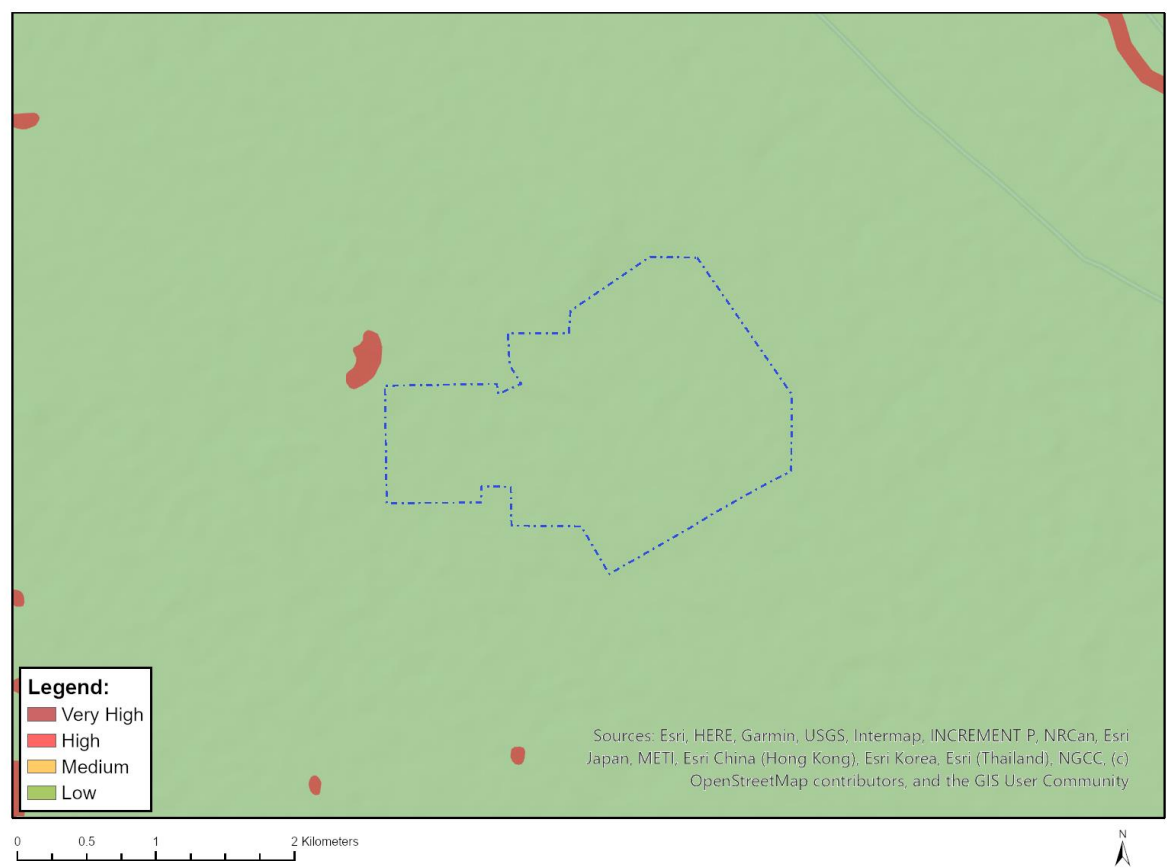
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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)
Low	Subject to confirmation
Medium	Aves-Neotis ludwigii

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

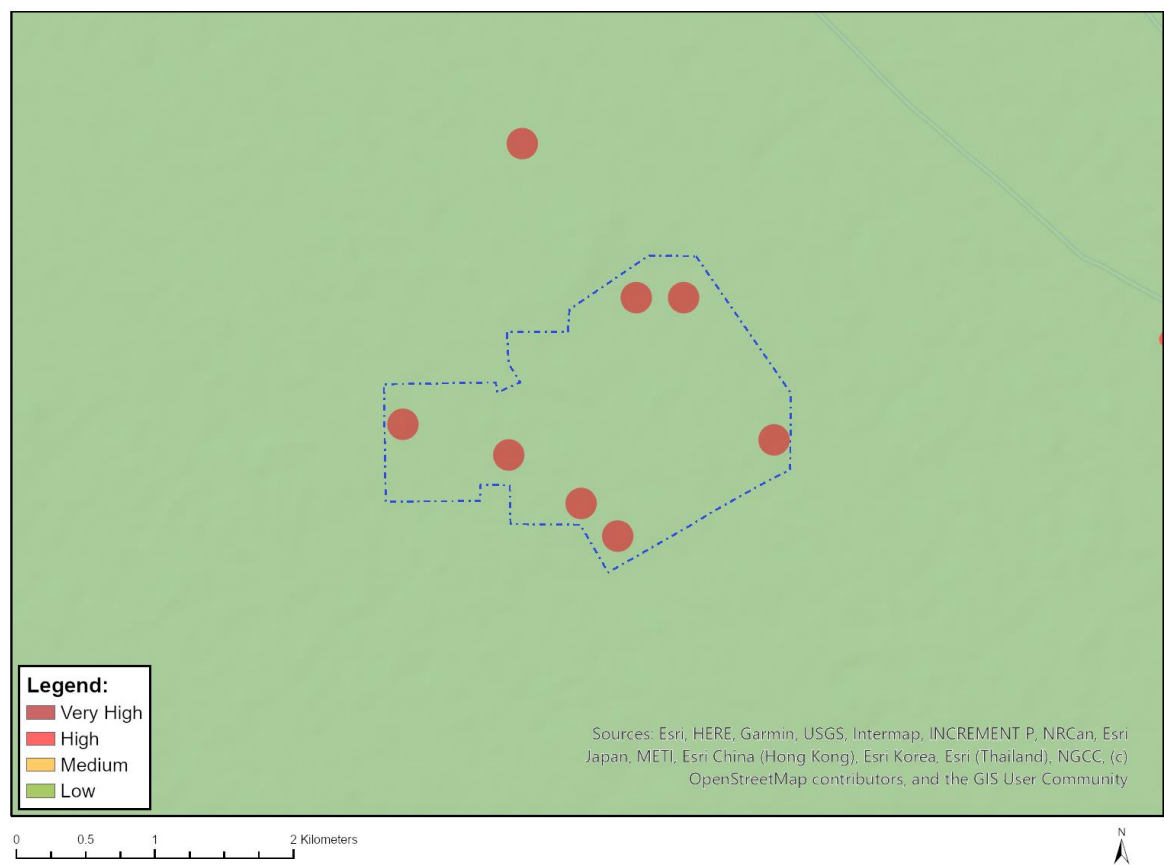


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

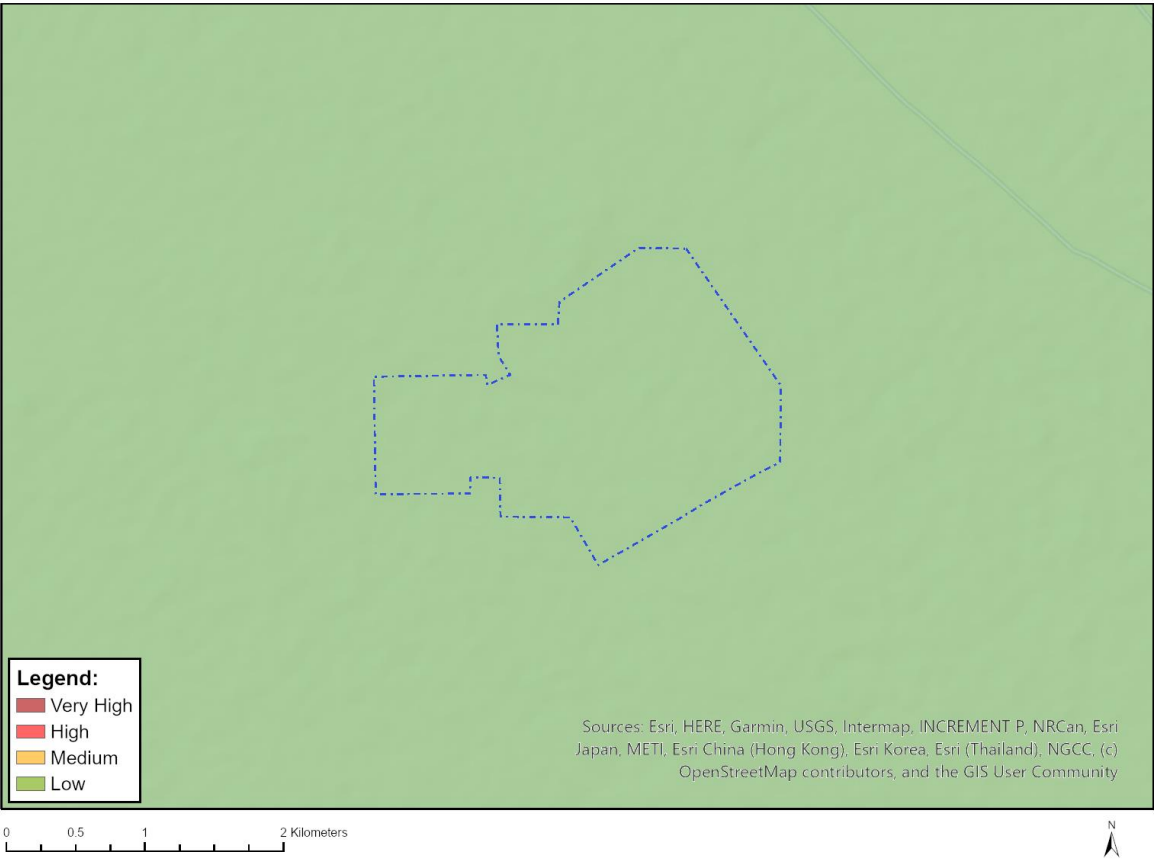


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	Within 100m of an Ungraded Heritage site

MAP OF RELATIVE AVIAN THEME SENSITIVITY

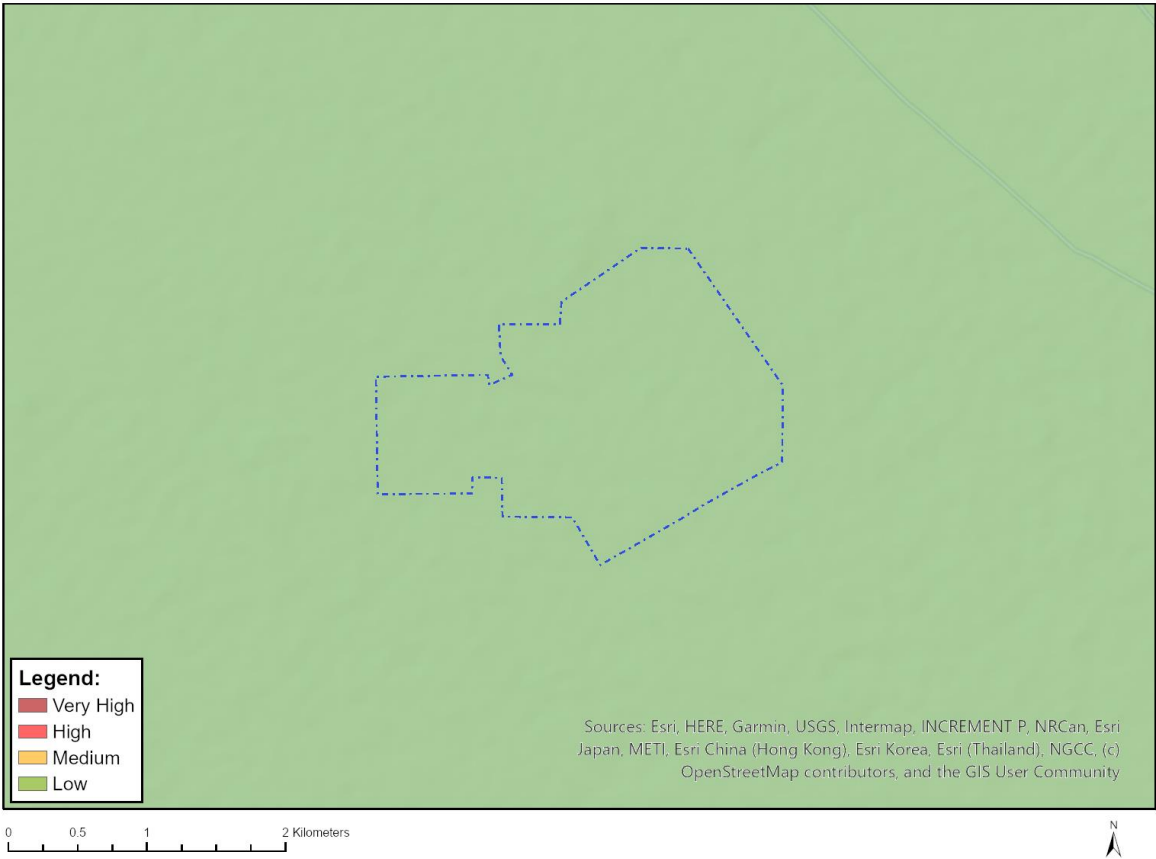


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

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

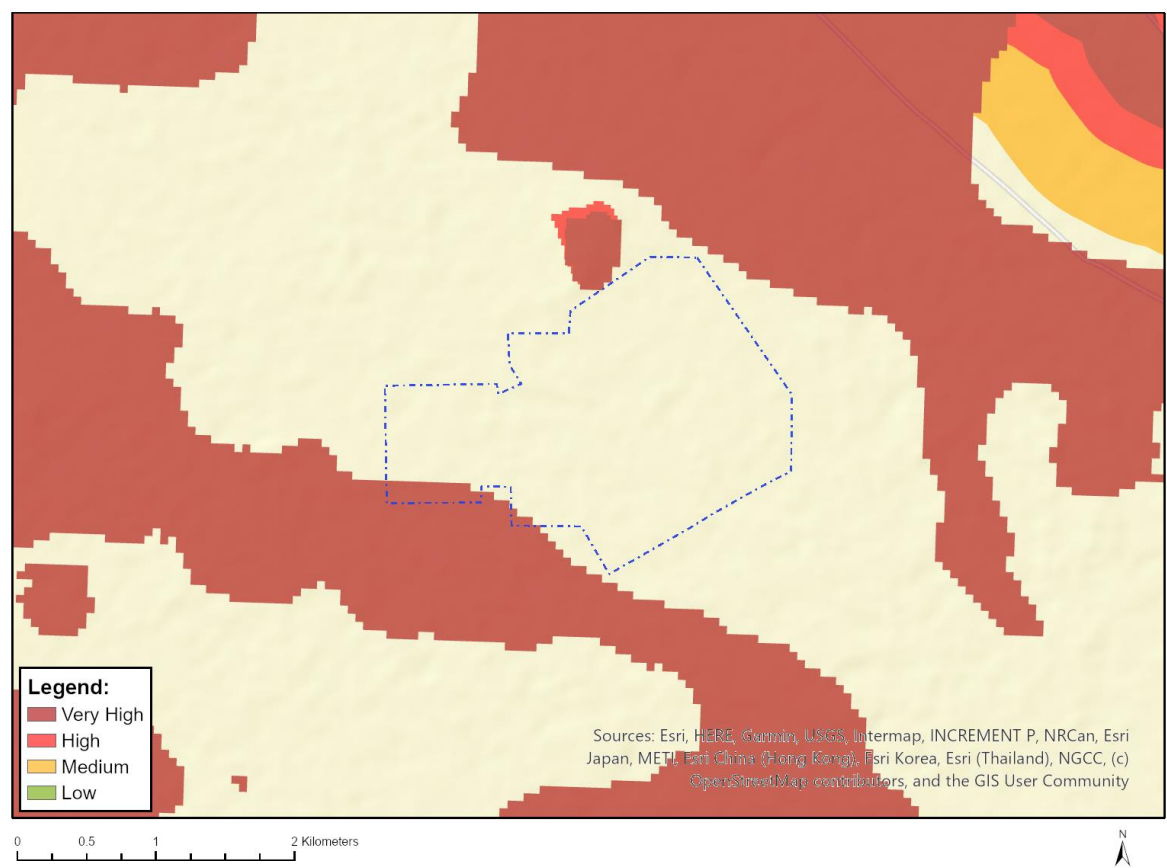


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Medium	Defence Site

MAP OF RELATIVE LANDSCAPE (SOLAR) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Mountain tops and high ridges

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

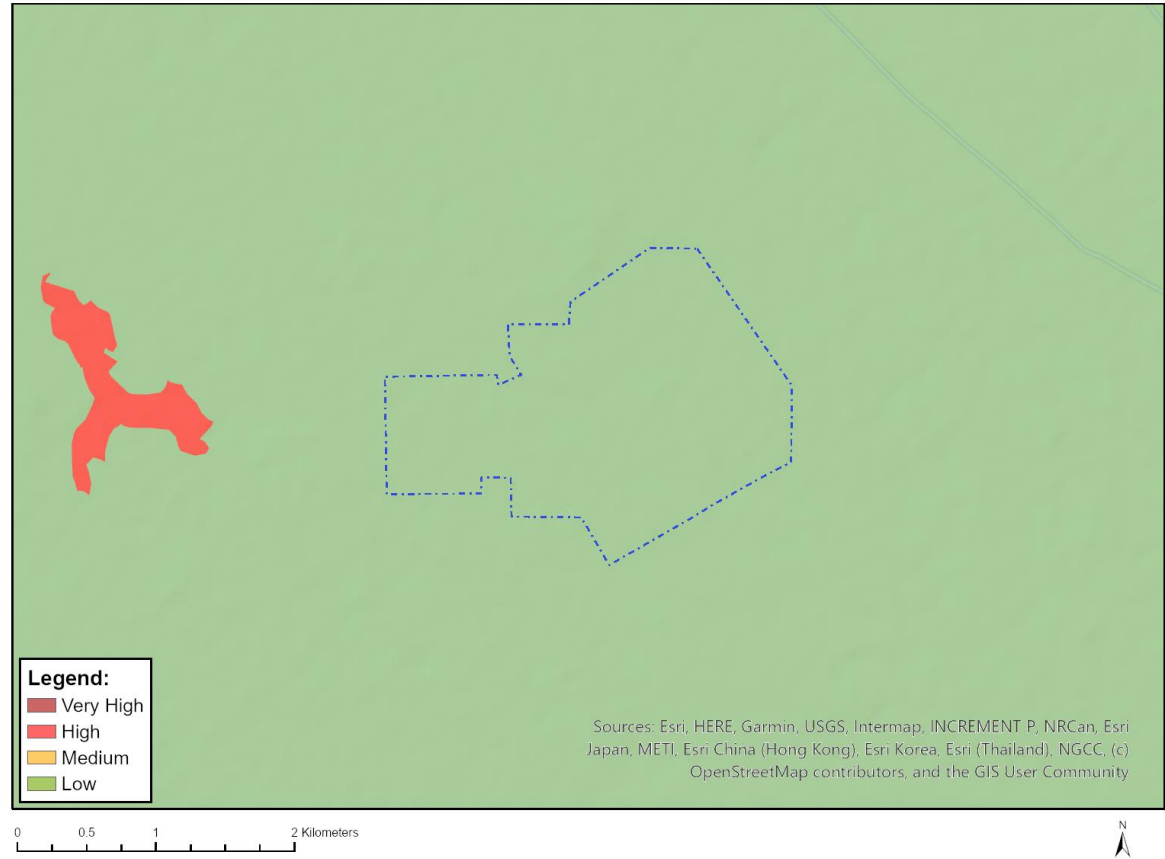


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

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

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



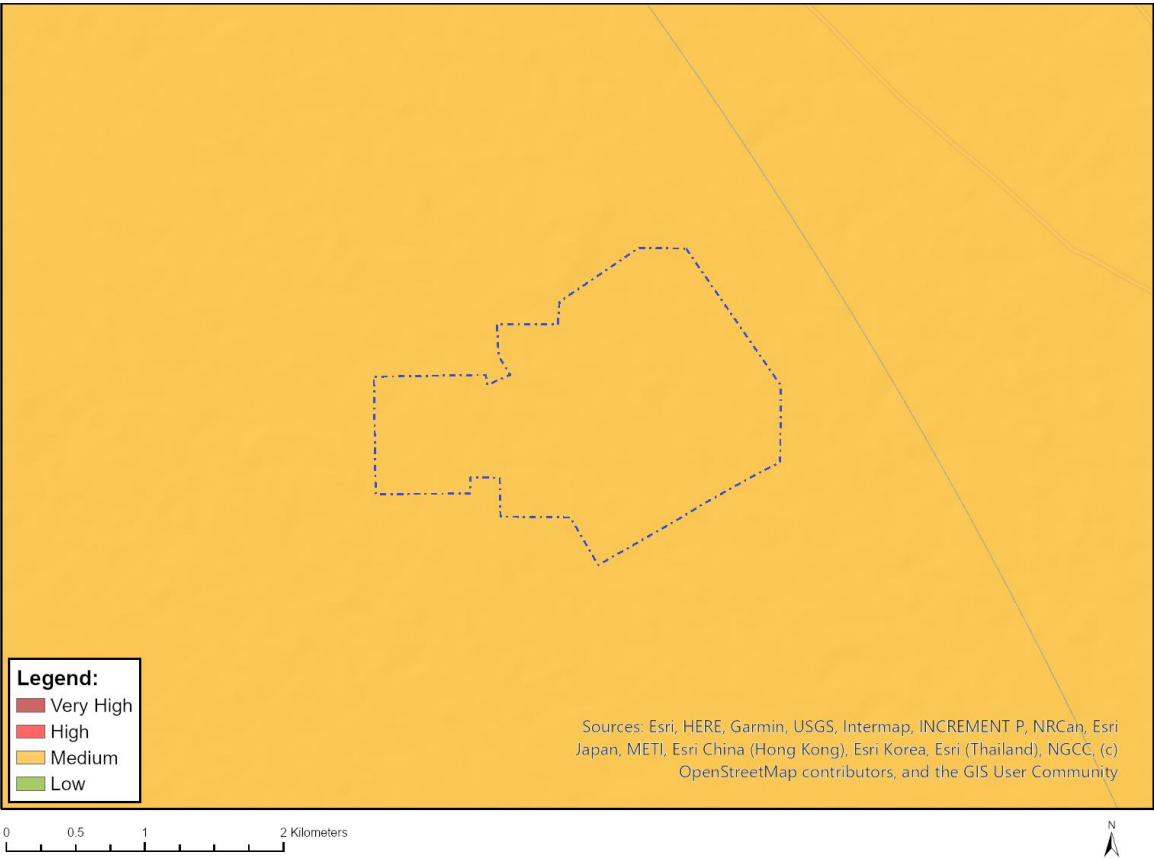
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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

MAP OF RELATIVE RFI THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Between 14 and 32 km of the Radio Astronomy Advantage Area
Medium	Between 14 and 32 km of a SKA receptor

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity