

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

EIA Reference number: Not Available

Project name: Environmental Impact Assessment Process for the Hugo Wind Energy Facility and ancillary infrastructure, near De Doorns, in the Western Cape Province

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Applicant: The Energy Team

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Application Category: Utilities Infrastructure|Electricity|Generation|Renewable|Wind

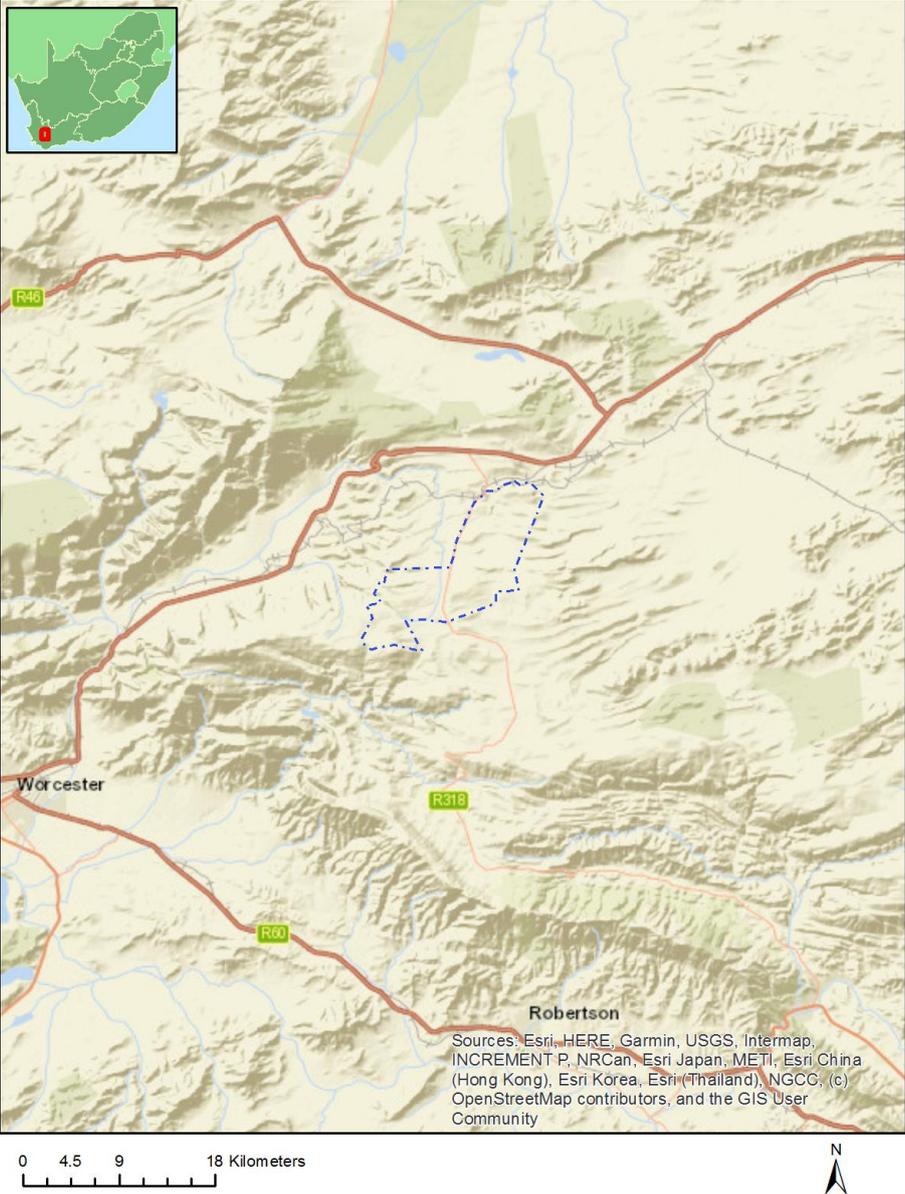
Table of Contents

Proposed Project Location	3
Orientation map 1: General location	3
Map of proposed site and relevant area(s)	4
Cadastral details of the proposed site	4
Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area	5
Environmental Management Frameworks relevant to the application	5
Environmental screening results and assessment outcomes	5
Relevant development incentives, restrictions, exclusions or prohibitions	6
Proposed Development Area Environmental Sensitivity	6
Specialist assessments identified	6
Results of the environmental sensitivity of the proposed area	9
MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY	9
MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY	10
MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY	11
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY	12
MAP OF RELATIVE AVIAN (WIND) THEME SENSITIVITY	13
MAP OF RELATIVE BATS (WIND) THEME SENSITIVITY	14
MAP OF RELATIVE CIVIL AVIATION (WIND) THEME SENSITIVITY	15
MAP OF RELATIVE DEFENCE (WIND) THEME SENSITIVITY	16
MAP OF RELATIVE FLICKER THEME SENSITIVITY	17
MAP OF RELATIVE LANDSCAPE (WIND) THEME SENSITIVITY	18
MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY	19
MAP OF RELATIVE NOISE THEME SENSITIVITY	20
MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY	21
MAP OF RELATIVE RFI (WIND) THEME SENSITIVITY	23
MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY	24
MAP OF RELATIVE VULTURE SPECIES THEME SENSITIVITY	25

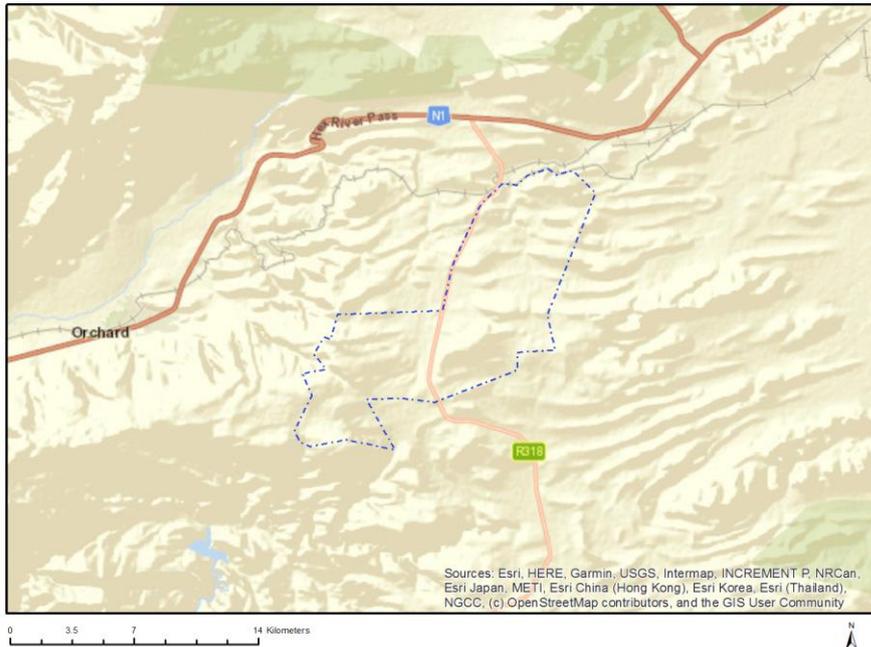
Proposed Project Location

Orientation map 1: General location

General Orientation: Environmental Impact Assessment Process for the Hugo Wind Energy Facility and ancillary infrastructure, near De Doorns, in the Western Cape Province



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	ZOUT RIVIERS	170	0	33°31'14.2S	19°50'39.79E	Farm
2	STINKFONTEIN	172	0	33°30'10.33S	19°48'22.21E	Farm
3	HELPMEKAAR	148	0	33°25'8.53S	19°51'56.01E	Farm
4	WITVLAKTE	175	0	33°31'27.6S	19°42'58.09E	Farm
5		761	0	33°31'22.41S	19°46'10.39E	Farm
6	KLIPFONTEIN	6	0	33°29'6.22S	19°44'38.3E	Farm
7	ROXANA	176	0	33°30'32.86S	19°44'44.15E	Farm
8	PAARDE VLAKTE	4	0	33°33'30.35S	19°45'43.41E	Farm
9	STINKFONTEINS BERG	147	0	33°29'46.89S	19°49'58.93E	Farm
10	RATELBOSCH	149	0	33°28'20.67S	19°54'8.59E	Farm
11		762	0	33°29'41.53S	19°46'49.86E	Farm
12	HELPMEKAAR	148	0	33°27'17.24S	19°50'9E	Farm
13	EZELSJACHT	171	0	33°32'30.76S	19°49'57.94E	Farm
14	DENNEGEUR	609	0	33°29'6.22S	19°44'38.3E	Farm
15	DECCA	626	0	33°30'45.76S	19°49'15.29E	Farm
16	HELPMEKAAR	148	9	33°25'8.53S	19°51'56.01E	Farm Portion
17		761	0	33°31'22.41S	19°46'10.39E	Farm Portion
18		762	0	33°29'41.53S	19°46'49.86E	Farm Portion
19	STINKFONTEINS BERG	147	3	33°29'50.48S	19°49'30.2E	Farm Portion
20	RATELBOSCH	149	13	33°25'24.19S	19°51'46.16E	Farm Portion
21	EZELSJACHT	171	2	33°33'13.44S	19°50'28.89E	Farm Portion
22	HELPMEKAAR	148	0	33°26'26.32S	19°48'42.73E	Farm Portion
23	STINKFONTEINS BERG	147	0	33°29'46.89S	19°49'58.93E	Farm Portion
24	HELPMEKAAR	148	1	33°27'36.31S	19°47'50.02E	Farm Portion

25	ZOUT RIVIERS	170	0	33°31'14.2S	19°50'39.79E	Farm Portion
26	EZELSJACHT	171	1	33°31'15.38S	19°47'56.55E	Farm Portion
27	EZELSJACHT	171	0	33°32'6.04S	19°49'54.8E	Farm Portion
28	HELPMEKAAR	148	9	33°27'8.6S	19°51'40.84E	Farm Portion
29	RATELBOSCH	149	6	33°30'25.1S	19°53'26.54E	Farm Portion
30		174	0	33°30'5.38S	19°46'34.26E	Farm Portion
31		145	0	33°29'19.01S	19°47'1.56E	Farm Portion
32	STINKFONTEIN	172	0	33°30'10.33S	19°48'22.21E	Farm Portion
33		174	0	33°30'52.73S	19°46'9.7E	Farm Portion
34	DENNEGEUR	609	0	33°29'6.22S	19°44'38.3E	Farm Portion
35	DECCA	626	0	33°30'45.76S	19°49'15.29E	Farm Portion
36	PAARDE VLAKTE	4	0	33°33'29.36S	19°45'45.75E	Farm Portion
37		173	0	33°31'45.08S	19°47'11.26E	Farm Portion
38		174	2	33°31'18.54S	19°45'52.65E	Farm Portion
39	WITVLAKTE	175	0	33°31'27.6S	19°42'58.09E	Farm Portion
40	ROXANA	176	0	33°30'32.86S	19°44'44.15E	Farm Portion
41	ROXANA	176	1	33°30'32.86S	19°44'44.15E	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	14/12/16/3/3/2/810	Solar PV	Approved	9.6
2	12/12/20/2210	Solar PV	Approved	8.5
3	12/12/20/2019	Solar PV	Approved	27.3
4	12/12/20/2210/AM2	Solar PV	Approved	8.5
5	12/12/20/1956	Solar PV	Approved	0

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 | Wind.

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.

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 Protected Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SAPAD_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	X			
Animal Species Theme		X		
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme				X
Avian (Wind) Theme				X
Bats (Wind) Theme		X		
Civil Aviation (Wind) Theme		X		
Defence (Wind) Theme				X
Flicker Theme	X			
Landscape (Wind) Theme	X			
Paleontology Theme	X			
Noise Theme	X			
Plant Species Theme			X	
RFI (Wind) Theme				X
Terrestrial Biodiversity Theme	X			
Vulture Species 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	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	Defense Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Defence_Installations_Assessment_Protocols.pdf
10	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
11	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Noise_Impacts_Assessment_Protocol.pdf
12	Flicker Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
13	Traffic Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
14	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
15	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
16	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
17	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf

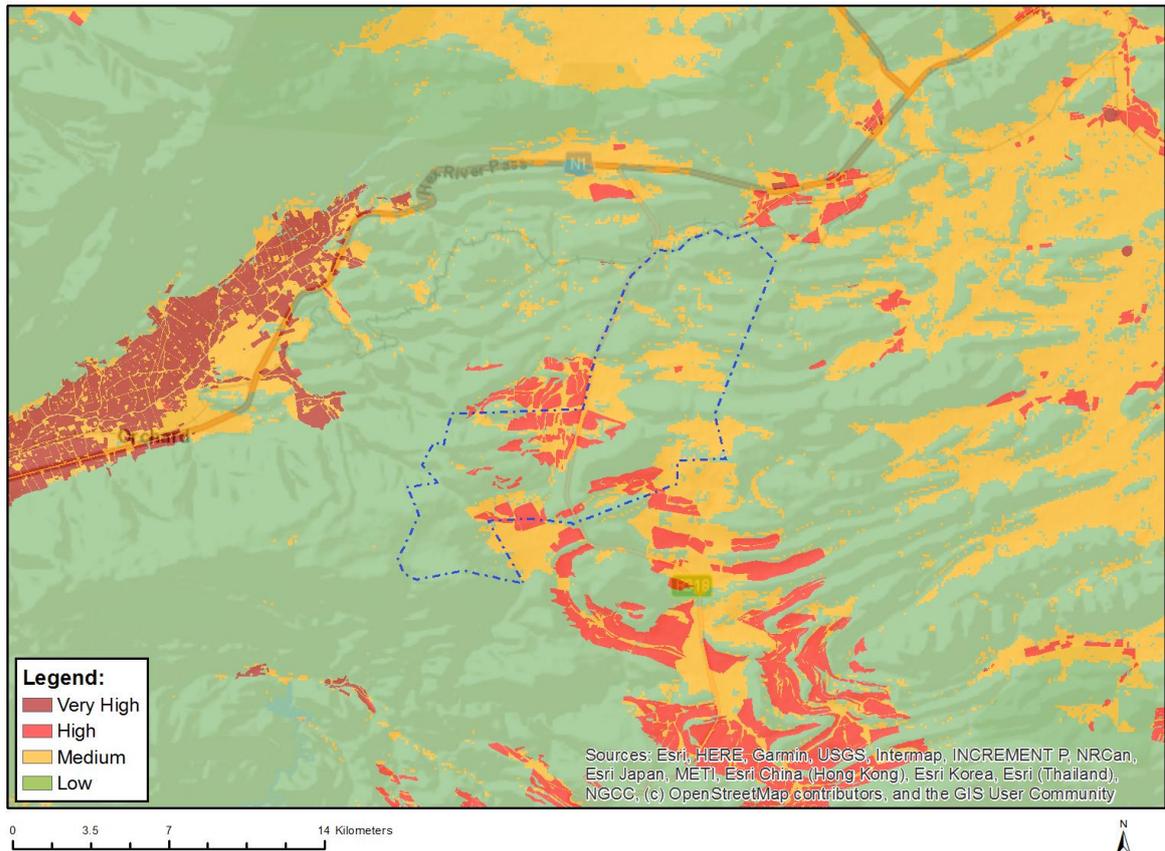
		ssmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf
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Results of the environmental sensitivity of the proposed area.

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

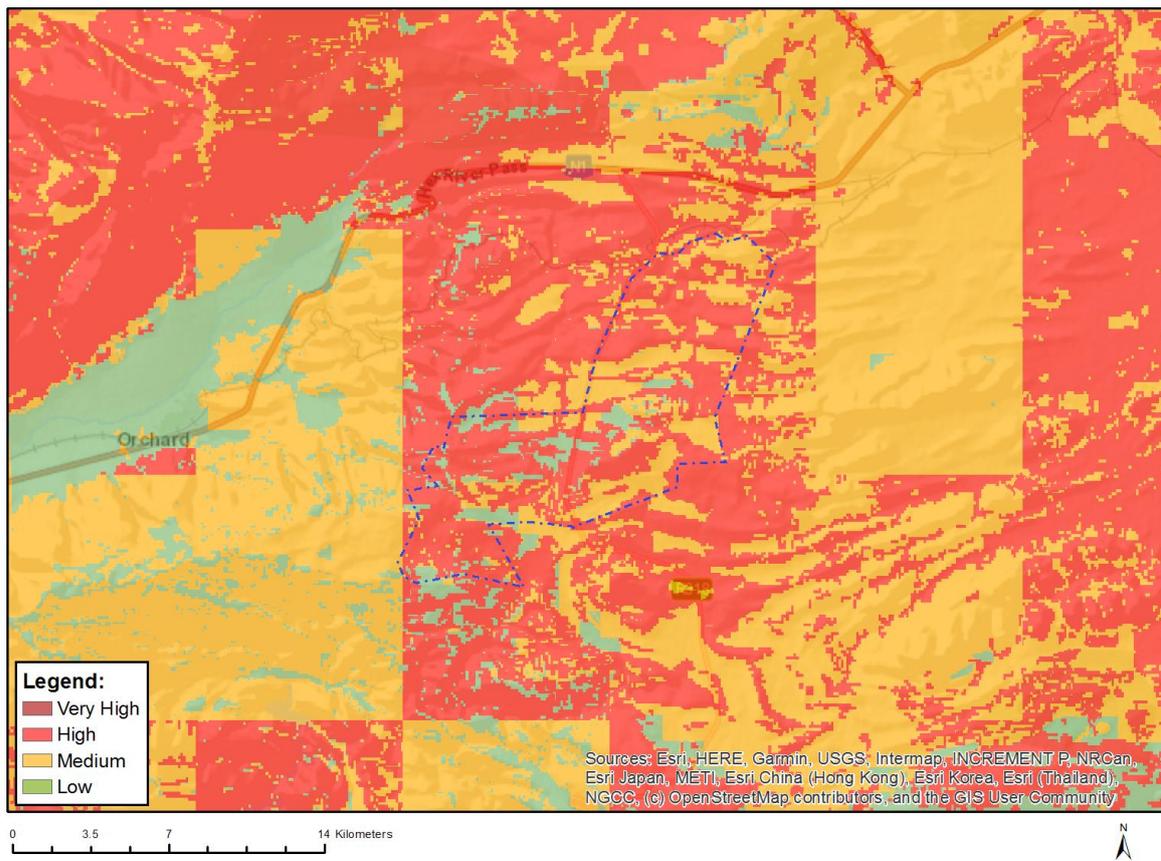


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



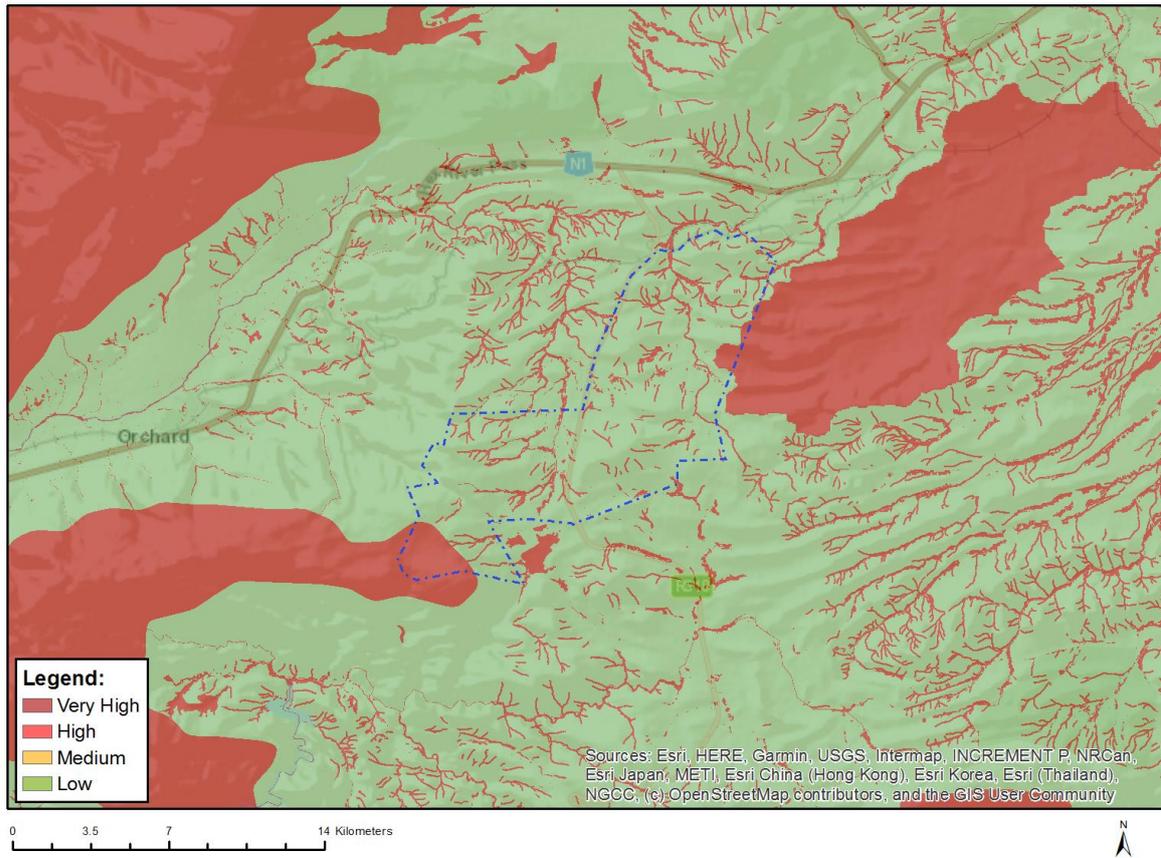
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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-Afrotis afra
High	Aves-Aquila verreauxii
Low	Subject to confirmation
Medium	Aves-Circus maurus
Medium	Aves-Aquila verreauxii
Medium	Aves-Afrotis afra
Medium	Insecta-Aloeides caledoni
Medium	Mammalia-Bunolagus monticularis

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

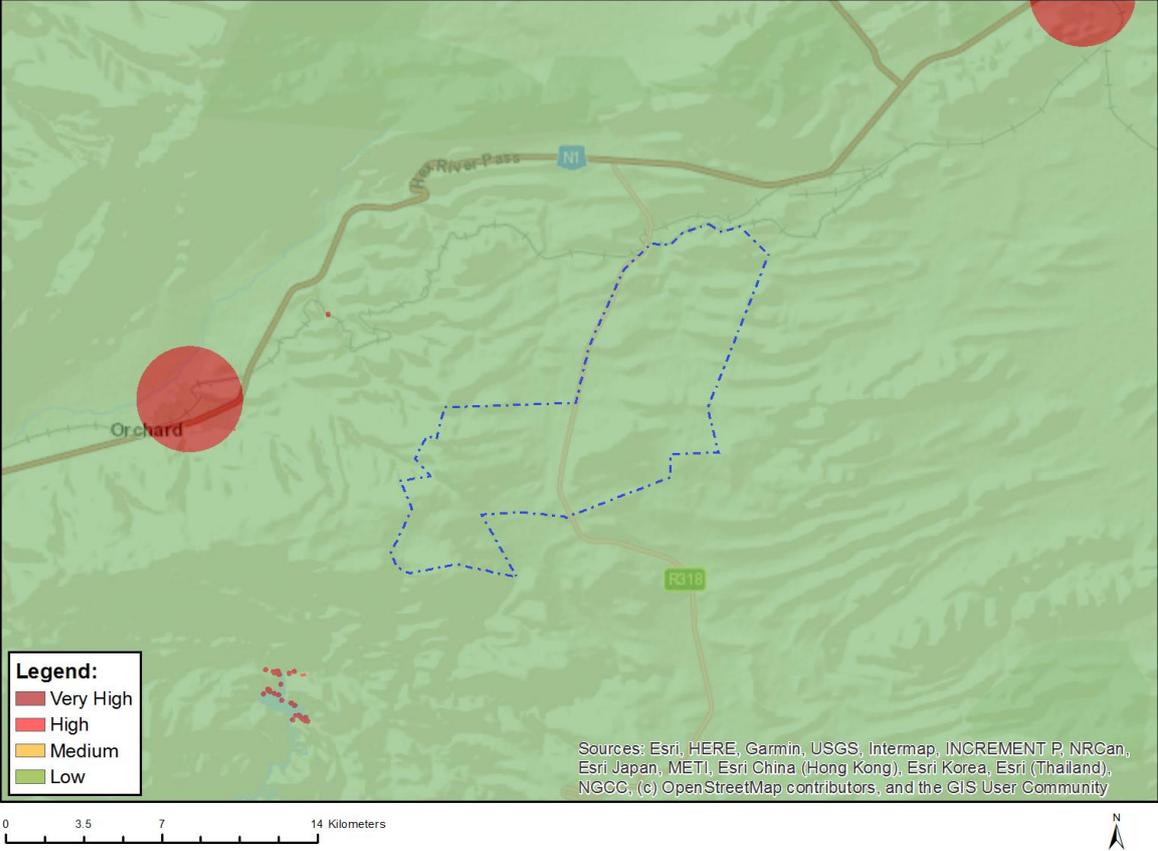


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	CBA 1: Aquatic
Very High	ESA 1: Aquatic
Very High	FEPA Subcatchment
Very High	Rivers_AB
Very High	Rivers_D
Very High	SWSA (SW) _Groot Winterhoek
Very High	Wetlands_ Western Fynbos-Renosterveld Bioregion (Depression)

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

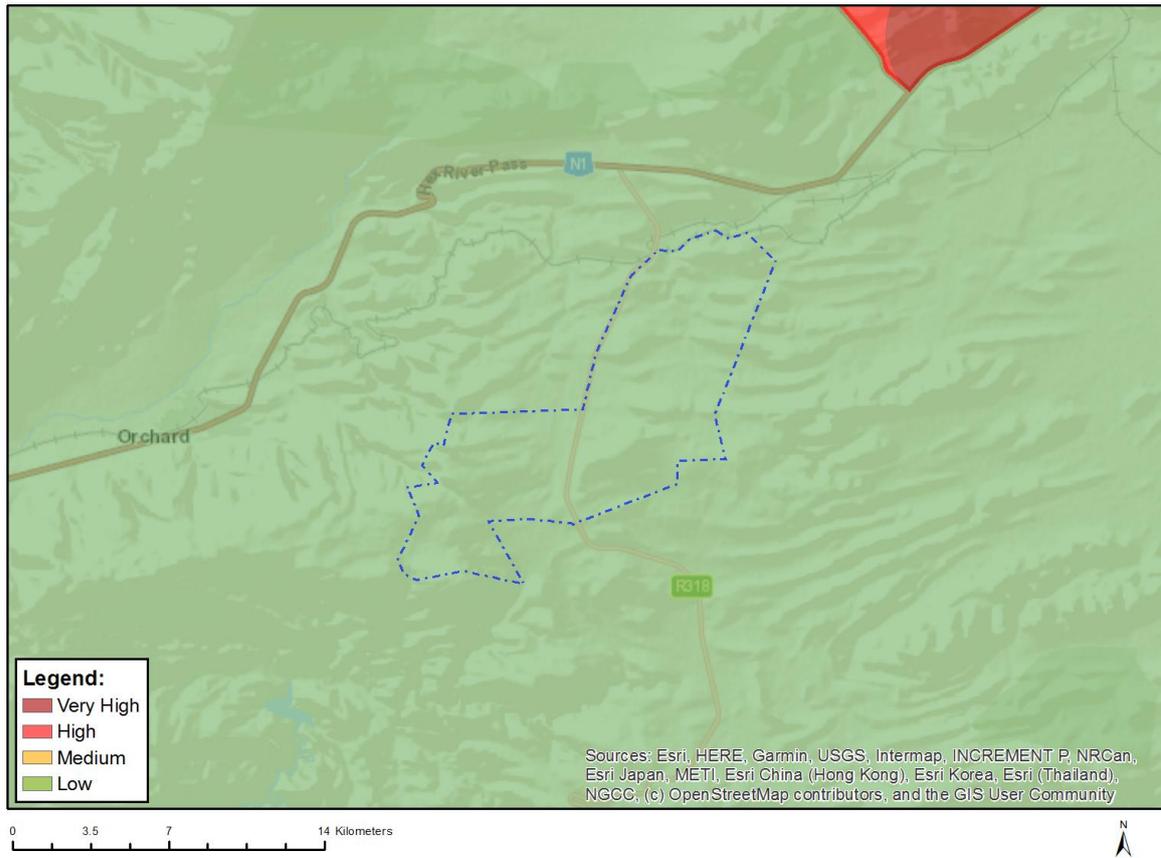


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE AVIAN (WIND) THEME SENSITIVITY

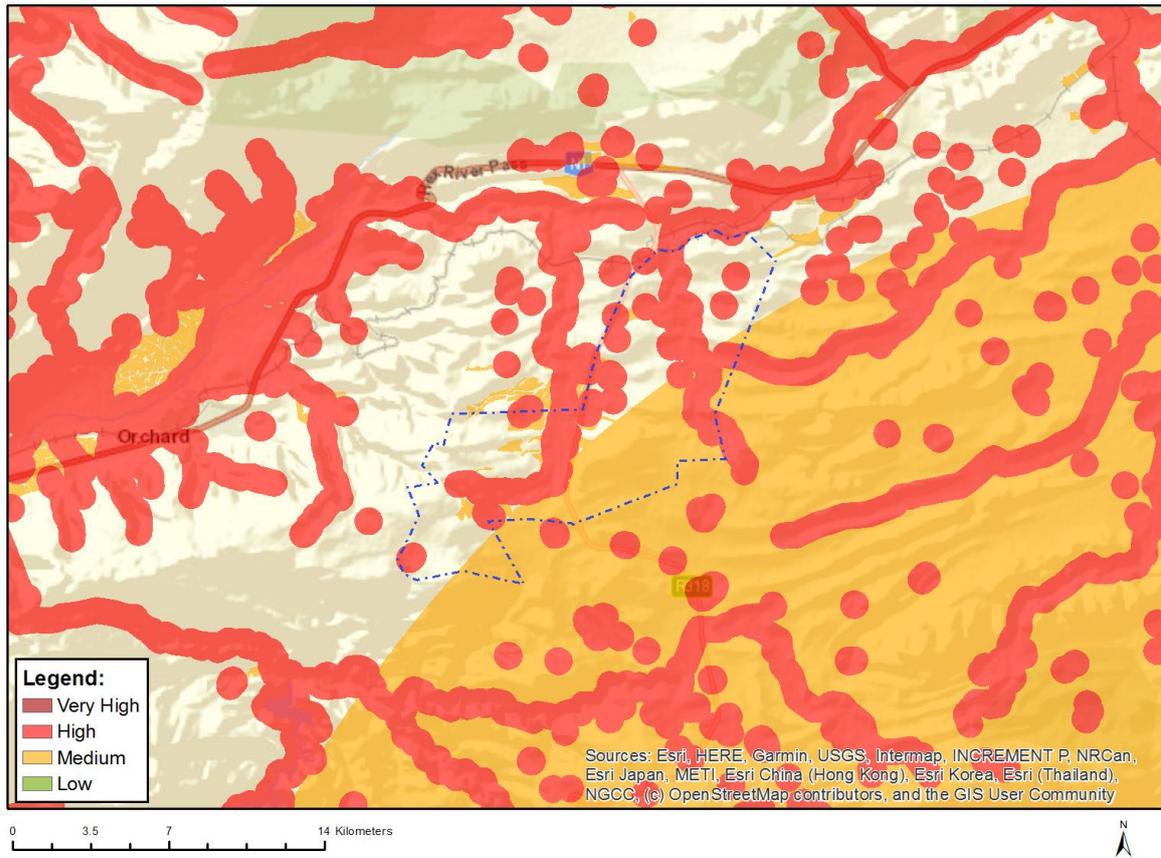


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Area Outside Sensitivities

MAP OF RELATIVE BATS (WIND) THEME SENSITIVITY

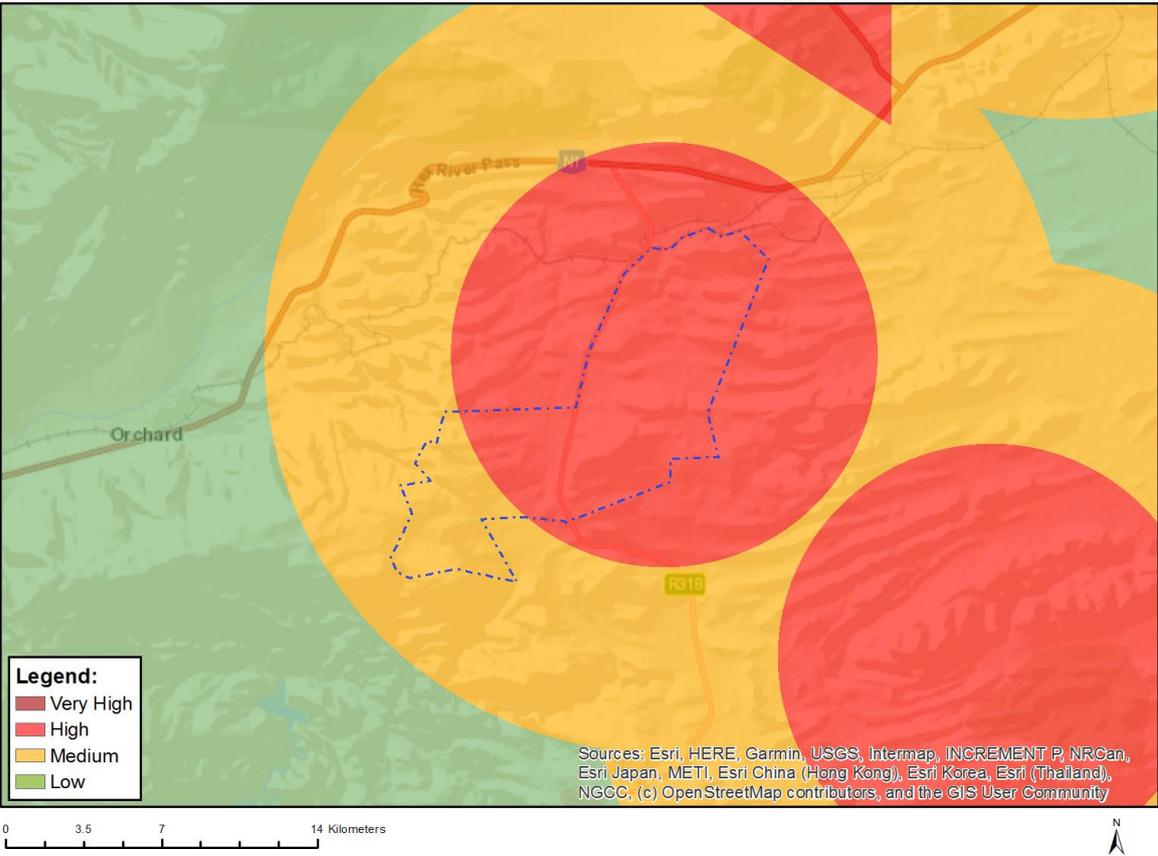


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 500 m of a river
High	Wetland
High	Within 500 m of a wetland
Medium	Between 20 and 50 km from a large bat roost
Medium	Croplands

MAP OF RELATIVE CIVIL AVIATION (WIND) THEME SENSITIVITY

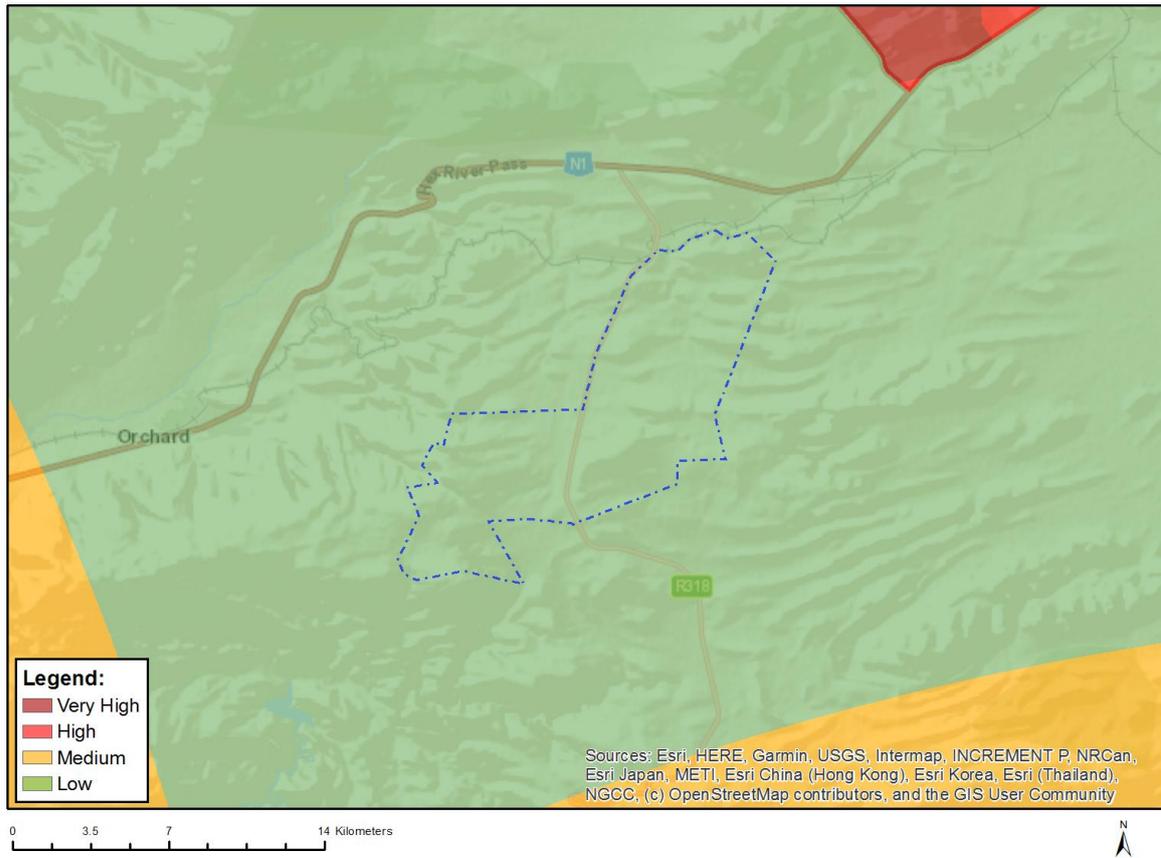


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 8 km of other civil aviation aerodrome
Medium	Between 8 and 15 km of other civil aviation aerodrome

MAP OF RELATIVE DEFENCE (WIND) THEME SENSITIVITY

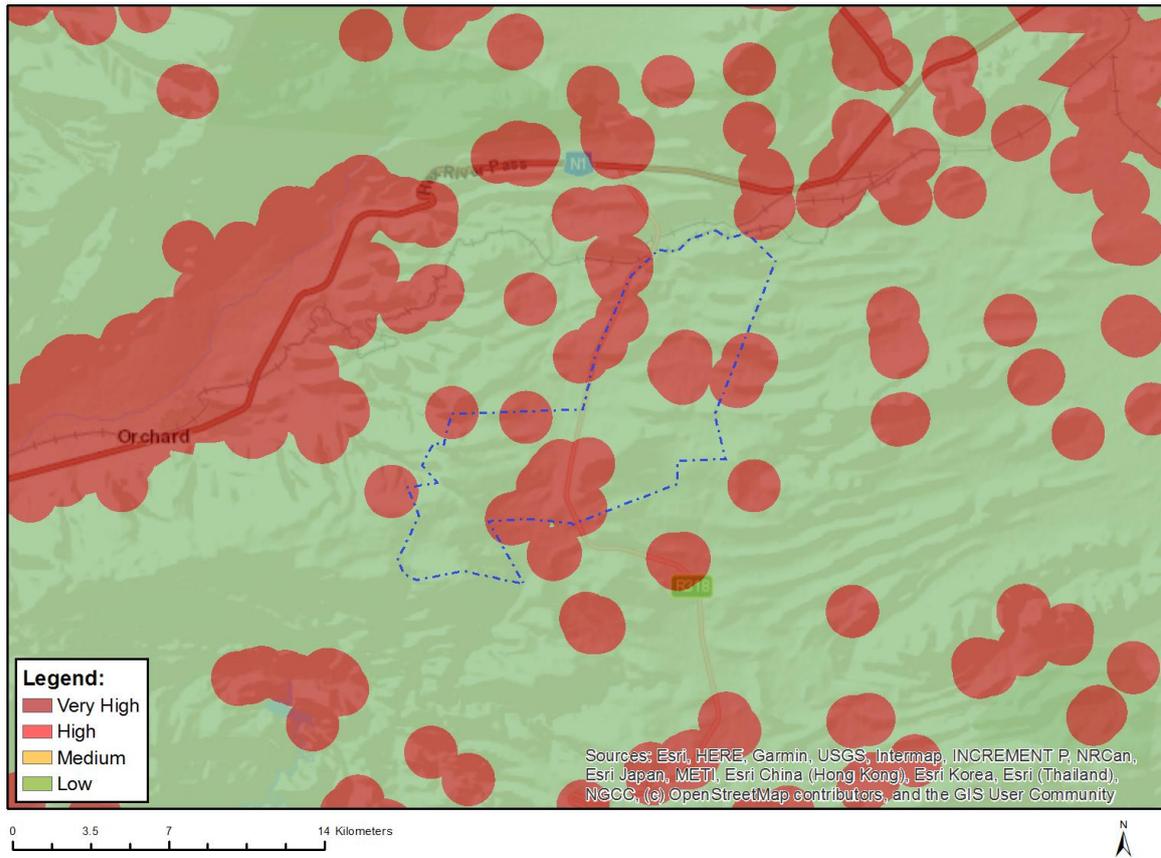


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE FLICKER THEME SENSITIVITY

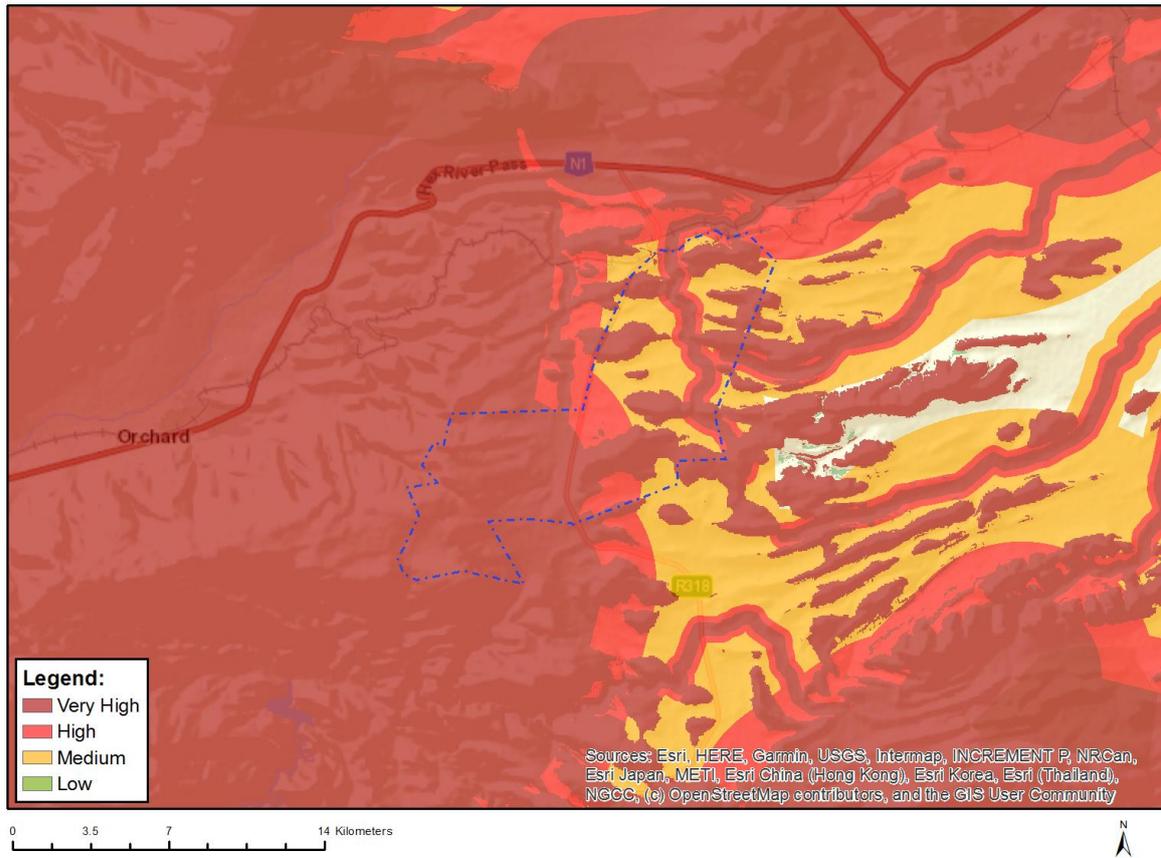


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Area of low sensitivity
Very High	Potential temporarily or permanently inhabited residence

MAP OF RELATIVE LANDSCAPE (WIND) THEME SENSITIVITY

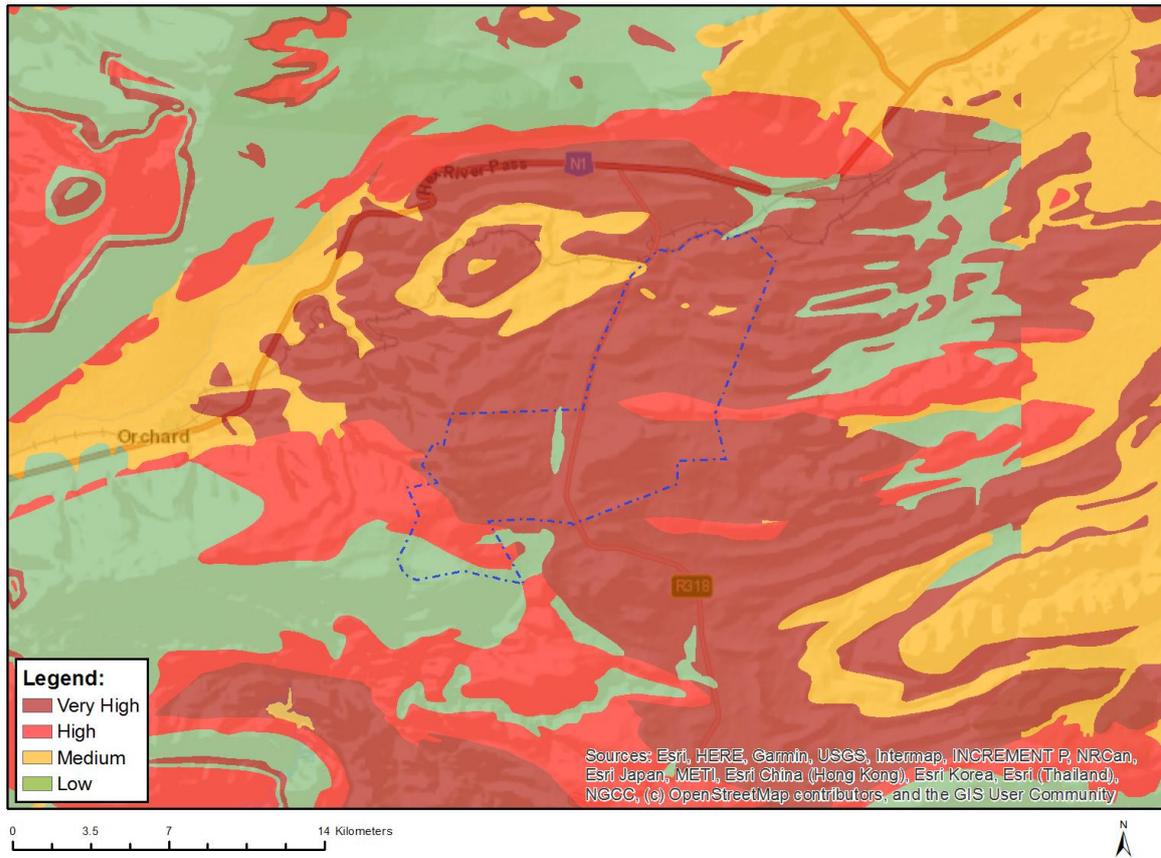


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Between 3 and 5 km of a nature reserve, botanical garden or other protected area
High	Within 500 m of a river
Low	Slope less than 1:10
Medium	Between 5 and 10 km of a nature reserve, botanical garden or other protected area
Medium	Within 1000 m of a wetland
Very High	Mountain tops and high ridges
Very High	Slope more than 1:4
Very High	Mountain Catchment Area
Very High	Within 3 km of a nature reserve, botanical garden or other protected area
Very High	Within 250 m of a river

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

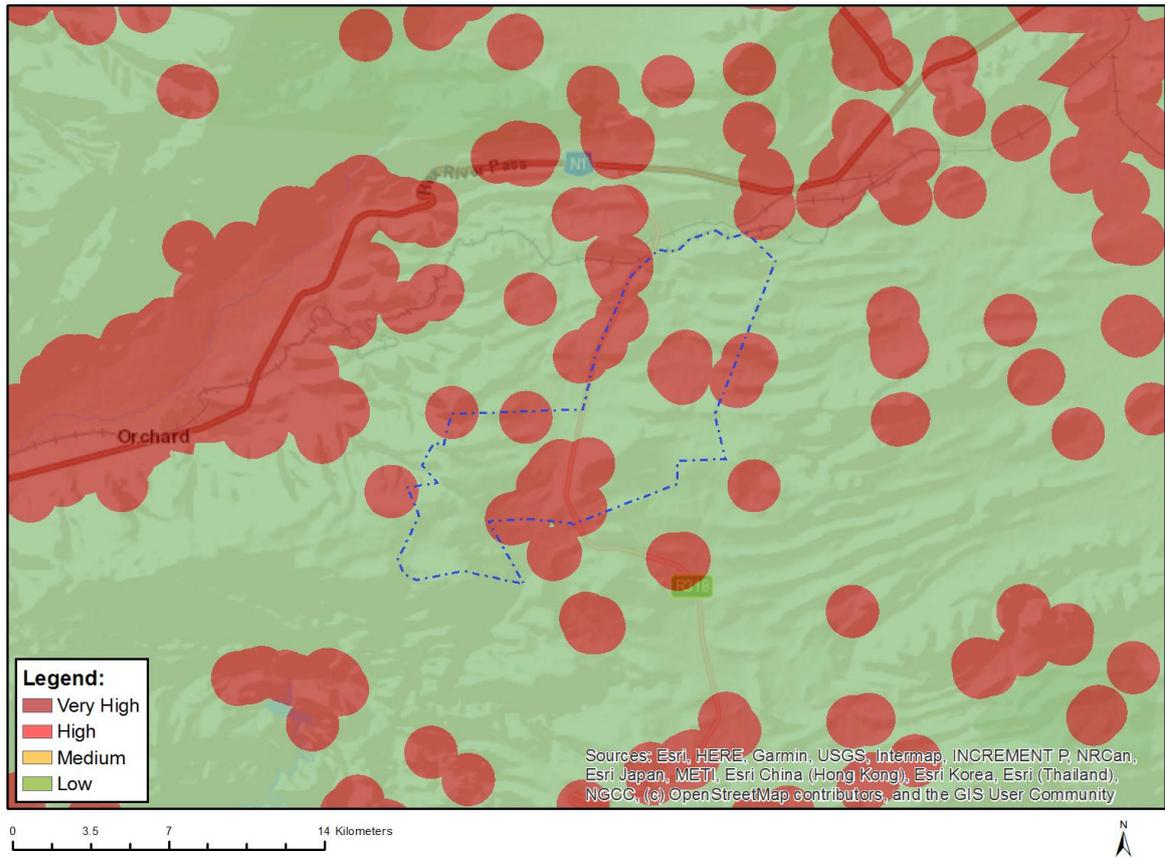


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Features with a High paleontological sensitivity
Low	Features with a Low paleontological sensitivity
Medium	Features with a Medium paleontological sensitivity
Very High	Features with a Very High paleontological sensitivity

MAP OF RELATIVE NOISE THEME SENSITIVITY

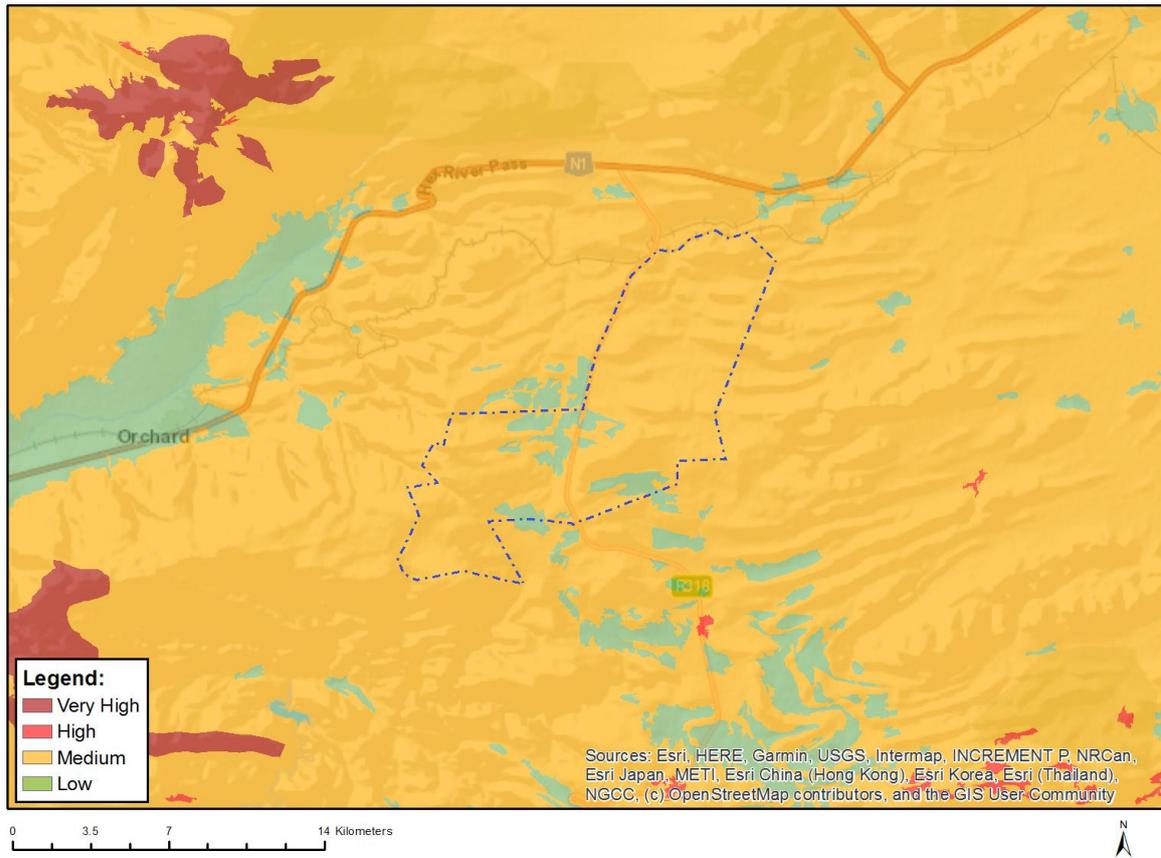


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Area of low sensitivity
Very High	Potential temporarily or permanently inhabited residence

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.

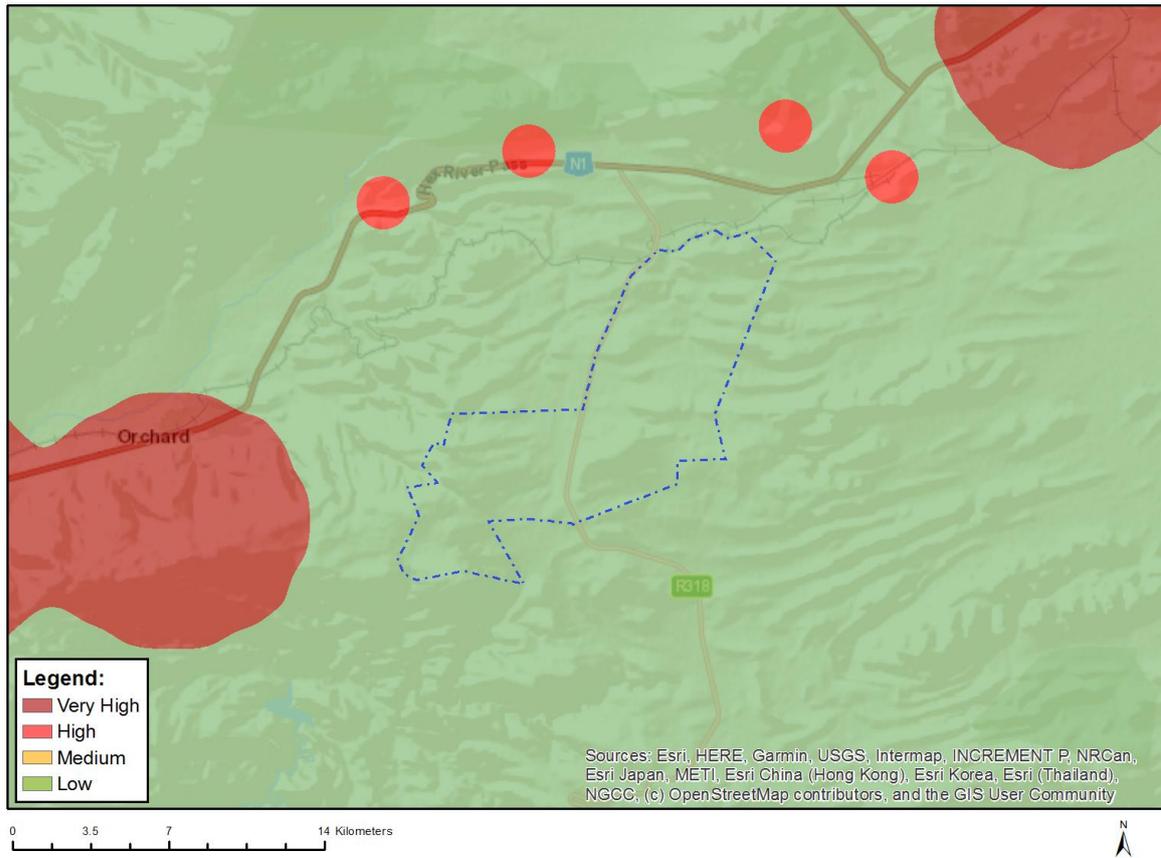
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Medium	<i>Esterhuysenia inlaudens</i>
Medium	<i>Antimima condensa</i>
Medium	<i>Drosanthemum tuberculiferum</i>
Medium	<i>Drosanthemum worcesterense</i>
Medium	<i>Amphithalea dahlgrenii</i>
Medium	<i>Amphithalea spinosa</i>
Medium	<i>Aspalathus intricata</i> subsp. <i>oxyclada</i>
Medium	<i>Aspalathus rostrata</i>
Medium	<i>Aspalathus shawii</i> subsp. <i>longispica</i>
Medium	<i>Otholobium</i> sp. nov. (Stirton & Zantovska 11281 NBG)
Medium	<i>Lotononis argentea</i>
Medium	<i>Lotononis gracilifolia</i>

Medium	<i>Protea holosericea</i>
Medium	<i>Ixia oxalidiflora</i>
Medium	<i>Ixia fucata</i>
Medium	<i>Romulea malaniae</i>
Medium	<i>Erica constantia</i>
Medium	<i>Metalasia helmei</i>
Medium	<i>Eriocephalus microphyllus</i> var. <i>carnosus</i>
Medium	<i>Athanasia hirsuta</i>
Medium	<i>Acmadenia matroosbergensis</i>
Medium	Sensitive species 692
Medium	Sensitive species 207
Medium	Sensitive species 871
Medium	<i>Phylica comptonii</i>
Medium	<i>Anderbergia elsiae</i>
Medium	<i>Phiambolia littlewoodii</i>
Medium	<i>Drosanthemum giffenii</i>
Medium	<i>Asparagus mollis</i>
Medium	<i>Leucadendron cordatum</i>
Medium	<i>Protea rupicola</i>
Medium	Sensitive species 1209
Medium	<i>Erica glandulipila</i>
Medium	<i>Erica setulosa</i>
Medium	Sensitive species 521
Medium	Sensitive species 142
Medium	<i>Restio aridus</i>
Medium	Sensitive species 654
Medium	<i>Pachites bodkinii</i>
Medium	<i>Heliophila elata</i>
Medium	<i>Octopoma nanum</i>

MAP OF RELATIVE RFI (WIND) THEME SENSITIVITY

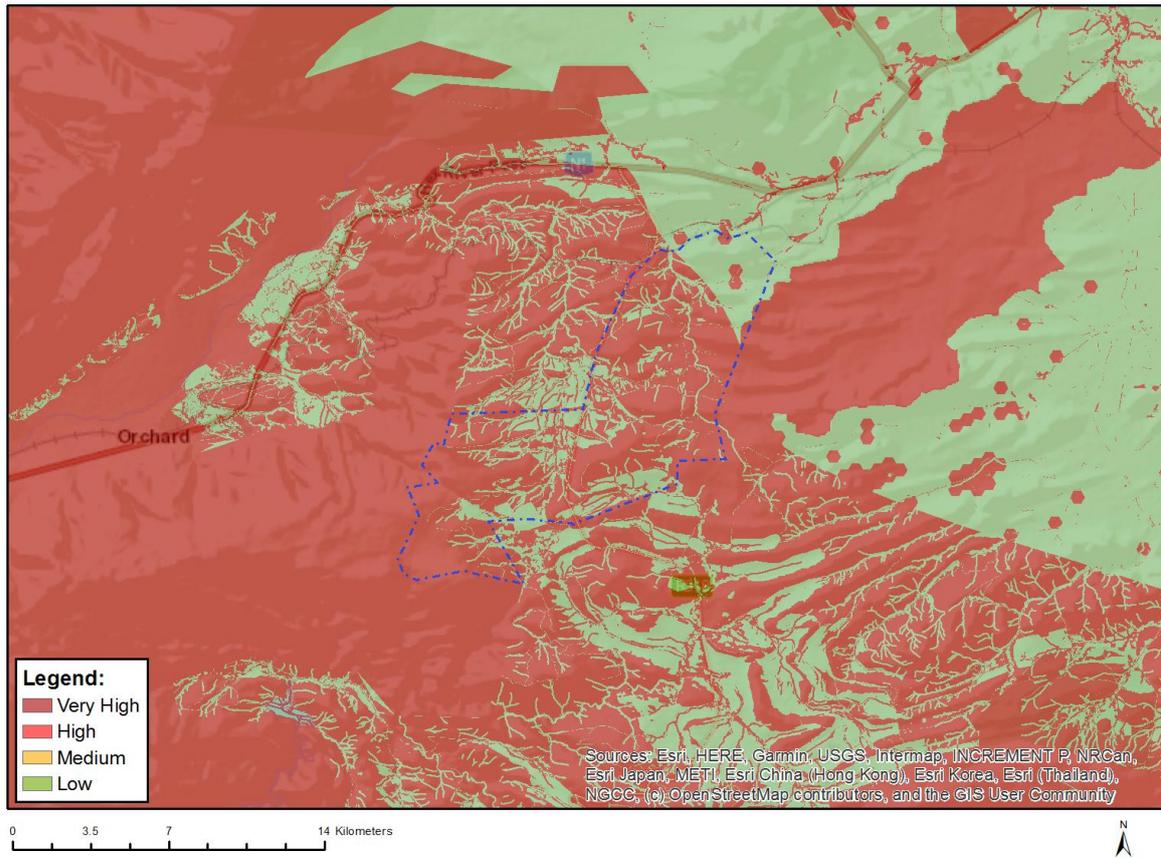


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity for telecommunications;None;More than 60 km from a Weather Radar installation

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY

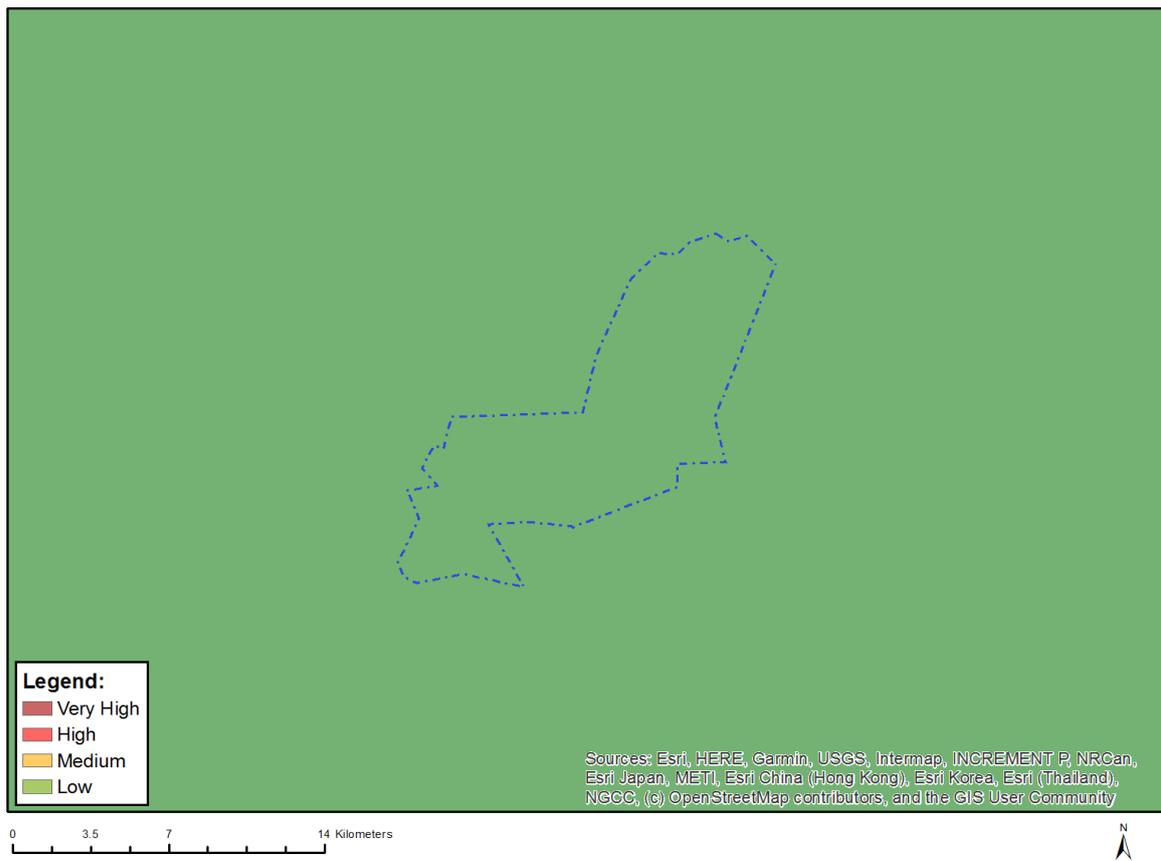


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	ESA 2: Restore from other land use
Very High	ESA 1
Very High	CBA 1: Terrestrial
Very High	FEPA Subcatchment
Very High	Matroosberg Mountain Catchment Area
Very High	SWSA (SW) _Groot Winterhoek

MAP OF RELATIVE VULTURE SPECIES THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	affecting an area <1% of the population