

Appendix E

DFFE SCREENING TOOL REPORT



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

EIA Reference number: TBC

Project name: Verkykersko WEF Cluster

Project title: Verkykersko WEF Cluster - Groothoek

Date screening report generated: 30/09/2024 11:39:25

Applicant: Mulilo Renewable Project Developments

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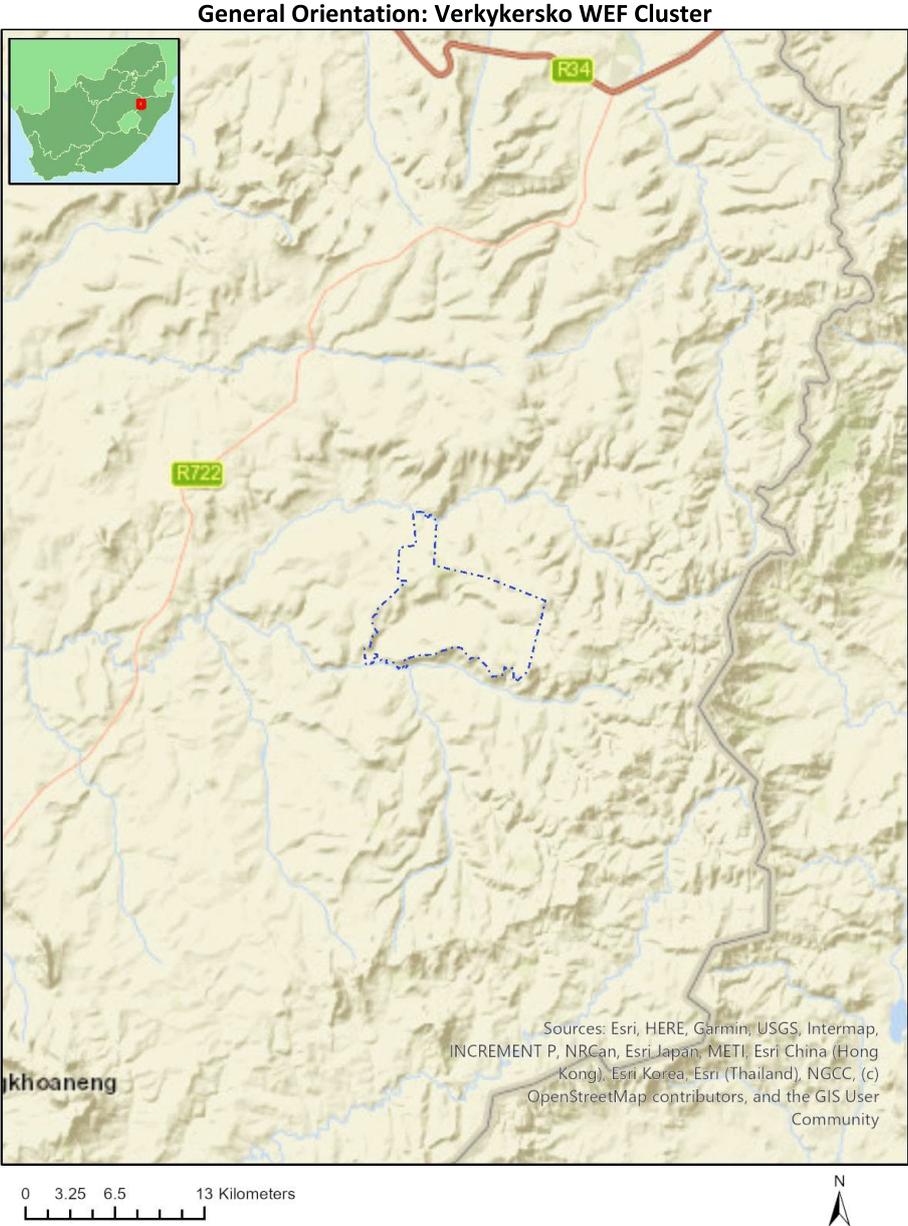
Application Category: Utilities Infrastructure | Electricity | Generation | Renewable | Wind

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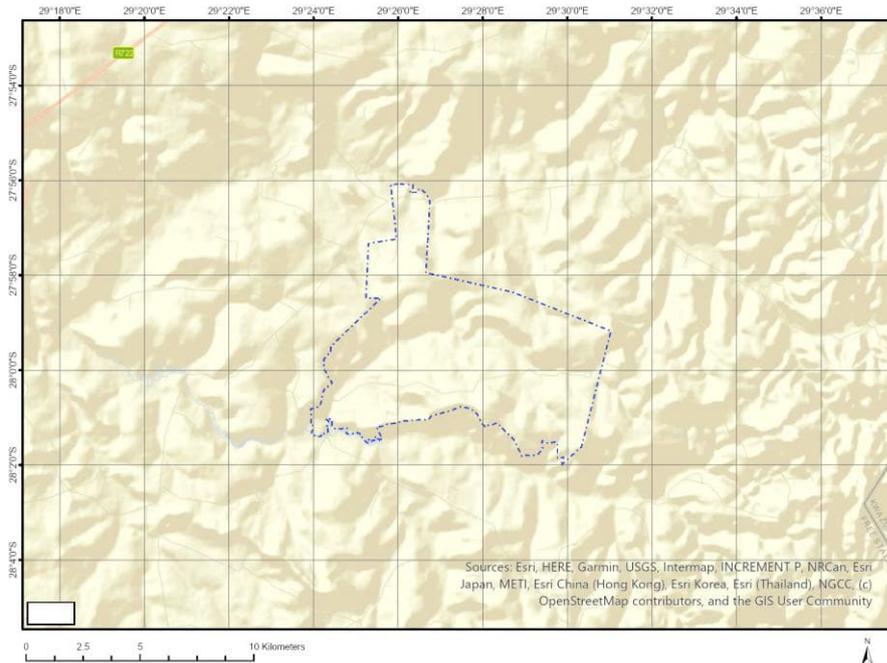
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Proposed Project Location

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	KROMDRAAI	273	0	28°1'43.18S	29°29'59.92E	Farm
2	KRANSPUNT	459	0	28°1'23.19S	29°25'27.18E	Farm
3	CONSTANTIA	1409	0	28°0'52.2S	29°23'2.23E	Farm
4	KRANSBANK	288	0	28°1'5.92S	29°24'4.81E	Farm
5	LUSTHOF	1321	0	27°56'55.4S	29°25'37.58E	Farm
6	SCHOONZICHT	80	0	28°1'7.96S	29°24'46.76E	Farm
7	DWAAL SPRUIT	100	0	28°1'52.91S	29°26'49.8E	Farm
8	KROMDRAAI	273	0	28°1'38.38S	29°29'5.37E	Farm
9	GELDERLAND	1410	0	27°58'5.64S	29°24'1.12E	Farm
10	RIET VLEI	326	0	28°2'49.33S	29°25'7.06E	Farm
11	SUCAMA	744	0	28°1'55.64S	29°23'53.65E	Farm
12	STRATHNAIRN	221	0	27°55'2.61S	29°25'22.44E	Farm
13	ROODEBLOEM	1985	0	27°56'45.17S	29°27'45.58E	Farm
14	ELSIE	1407	0	27°59'23.32S	29°24'9.05E	Farm
15	VAN KOPPE	1319	0	27°57'23.59S	29°25'58.01E	Farm
16	MARAIS HOEK	575	0	28°2'32.79S	29°28'29.86E	Farm
17	VENUS	1320	0	27°54'53.38S	29°26'18.24E	Farm
18	GROOTHOEK	89	0	27°59'50.19S	29°27'34.31E	Farm
19	KROMDRAAI	273	0	28°1'43.18S	29°29'59.92E	Farm Portion
20	KROMDRAAI	273	0	28°1'38.38S	29°29'5.37E	Farm Portion
21	SCHOONZICHT	80	0	28°1'7.96S	29°24'46.76E	Farm Portion
22	SUCAMA	744	0	28°1'55.64S	29°23'53.65E	Farm Portion
23	STRATHNAIRN	221	0	27°55'2.61S	29°25'22.44E	Farm Portion
24	DWAAL SPRUIT	100	0	28°1'51.25S	29°26'36.96E	Farm Portion
25	KRANSBANK	288	0	28°1'5.92S	29°24'4.81E	Farm Portion
26	RIET VLEI	326	0	28°2'49.33S	29°25'7.06E	Farm Portion
27	KRANSPUNT	459	0	28°1'23.19S	29°25'27.18E	Farm Portion
28	LUSTHOF	1321	0	27°56'55.4S	29°25'37.58E	Farm Portion

29	ELSIE	1407	0	27°59'23.32S	29°24'9.05E	Farm Portion
30	CONSTANTIA	1409	0	28°0'52.2S	29°23'2.23E	Farm Portion
31	GELDERLAND	1410	0	27°58'5.64S	29°24'1.12E	Farm Portion
32	MARAIS HOEK	575	0	28°2'32.79S	29°28'29.86E	Farm Portion
33	GROOTHOEK	89	0	27°59'50.11S	29°27'39.61E	Farm Portion
34	VAN KOPPE	1319	0	27°57'23.44S	29°26'2.92E	Farm Portion
35	VENUS	1320	0	27°54'53.44S	29°26'21.76E	Farm Portion
36	ROODEBLOEM	1985	6	27°57'16.22S	29°27'30.9E	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 nearby wind or solar developments found.

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.

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 Gas Pipeline Corridors-Phase 3: Richards Bay to Gauteng	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_GAS.pdf

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.

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.

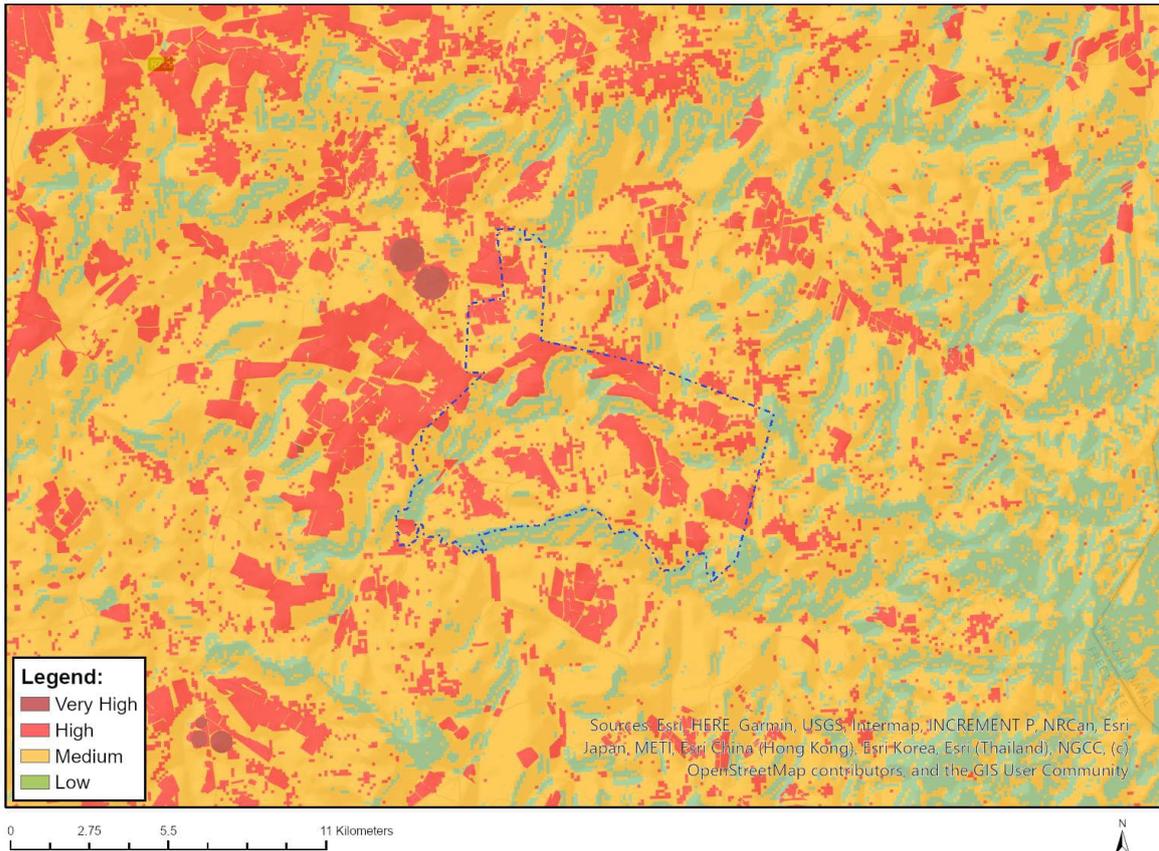
No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_WindAndSolar_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessmen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

	Impact Assessment	ssmentProtocols/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 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

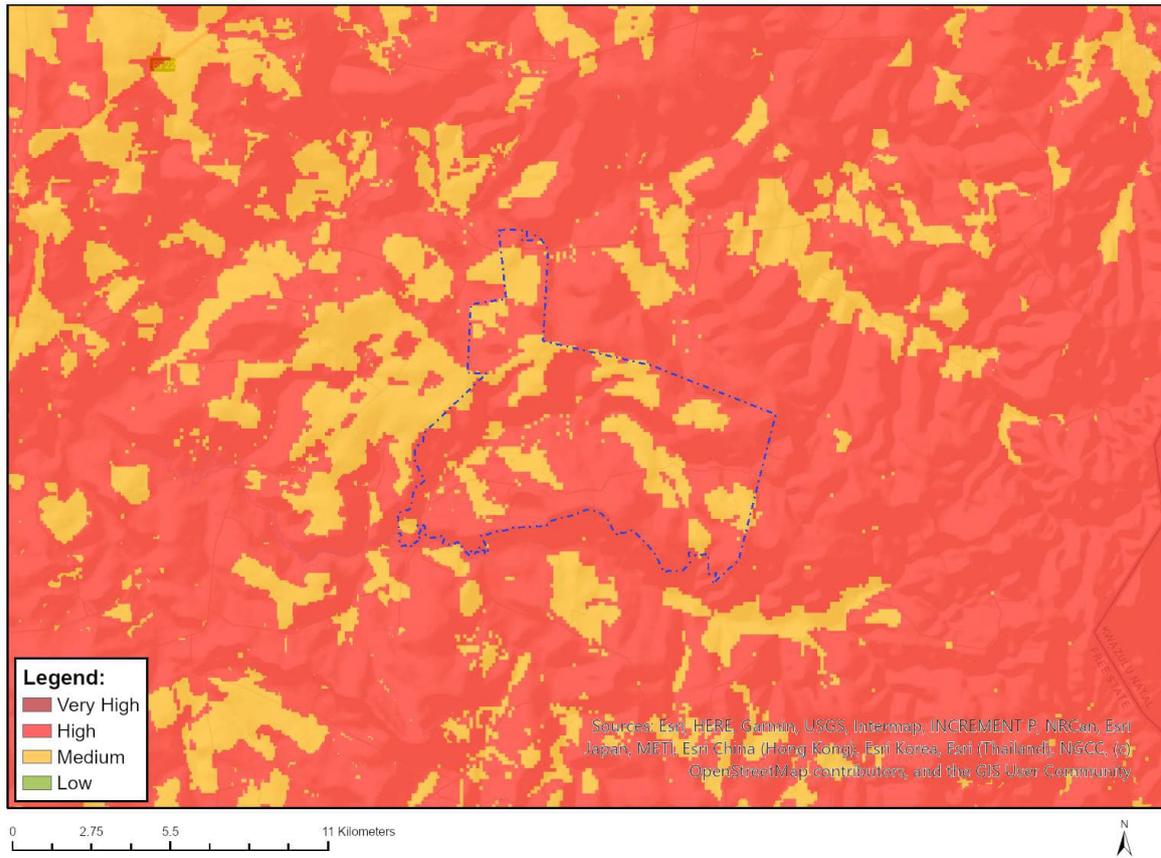


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

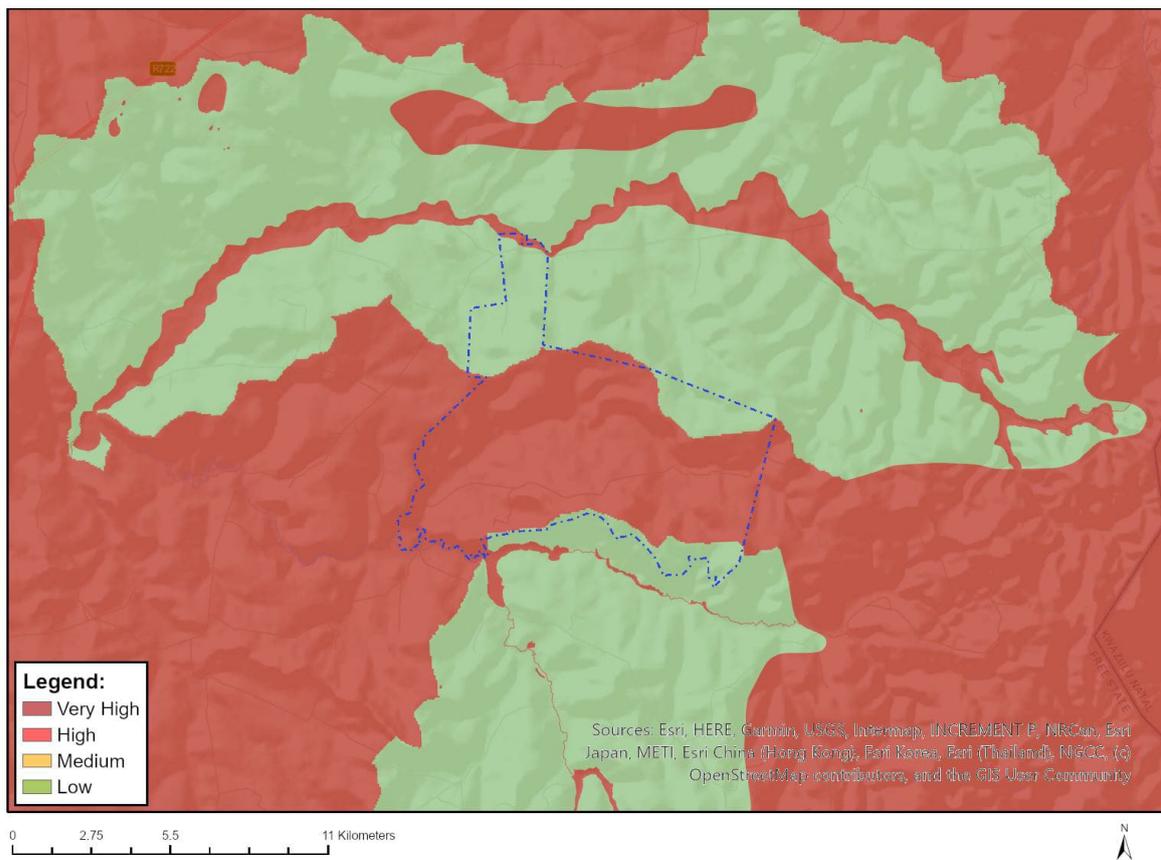
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Aves-Sagittarius serpentarius
High	Aves-Geronticus calvus
High	Aves-Neotis denhami
High	Aves-Anthus chloris
High	Aves-Circus ranivorus
High	Aves-Balearica regulorum
High	Aves-Falco biarmicus
High	Aves-Eupodotis senegalensis
Medium	Aves-Tyto capensis
Medium	Aves-Sagittarius serpentarius
Medium	Aves-Neotis denhami
Medium	Aves-Balearica regulorum
Medium	Aves-Heteromirafra ruddi

Medium	Aves-Eupodotis senegalensis
Medium	Aves-Anthus chloris
Medium	Aves-Circus ranivorus
Medium	Aves-Spizocorys fringillaris
Medium	Aves-Ciconia nigra
Medium	Aves-Hydroprogne caspia
Medium	Aves-Aquila verreauxii
Medium	Sensitive species 23
Medium	Mammalia-Hydrictris maculicollis
Medium	Mammalia-Ourebia ourebi ourebi
Medium	Sensitive species 15
Medium	Invertebrate-Clonia lalandei

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY



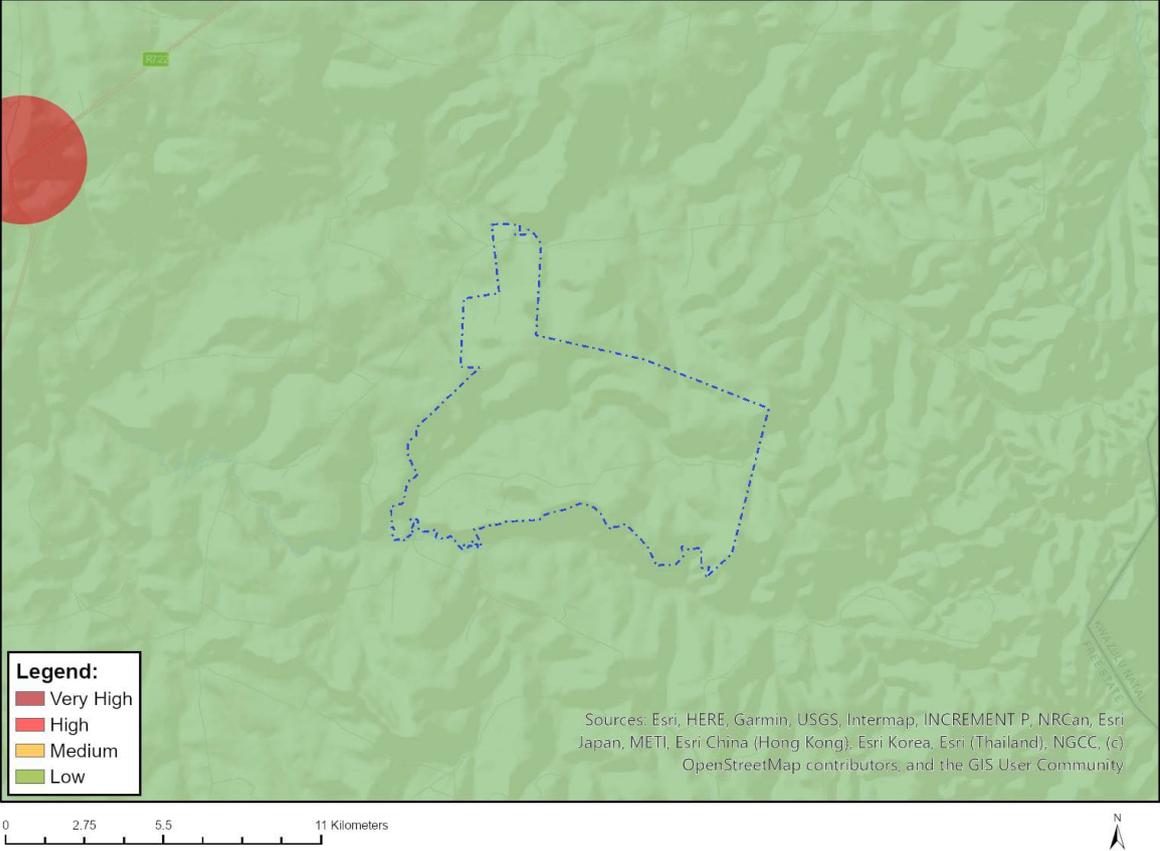
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	FEPA Subcatchment
Very High	Rivers_AB
Very High	Wetlands_(River)
Very High	Wetlands_Mesic Highveld Grassland Bioregion (Depression)

Very High	Wetlands_Mesic Highveld Grassland Bioregion (Floodplain)
Very High	Wetlands_Mesic Highveld Grassland Bioregion (Valley-bottom)

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

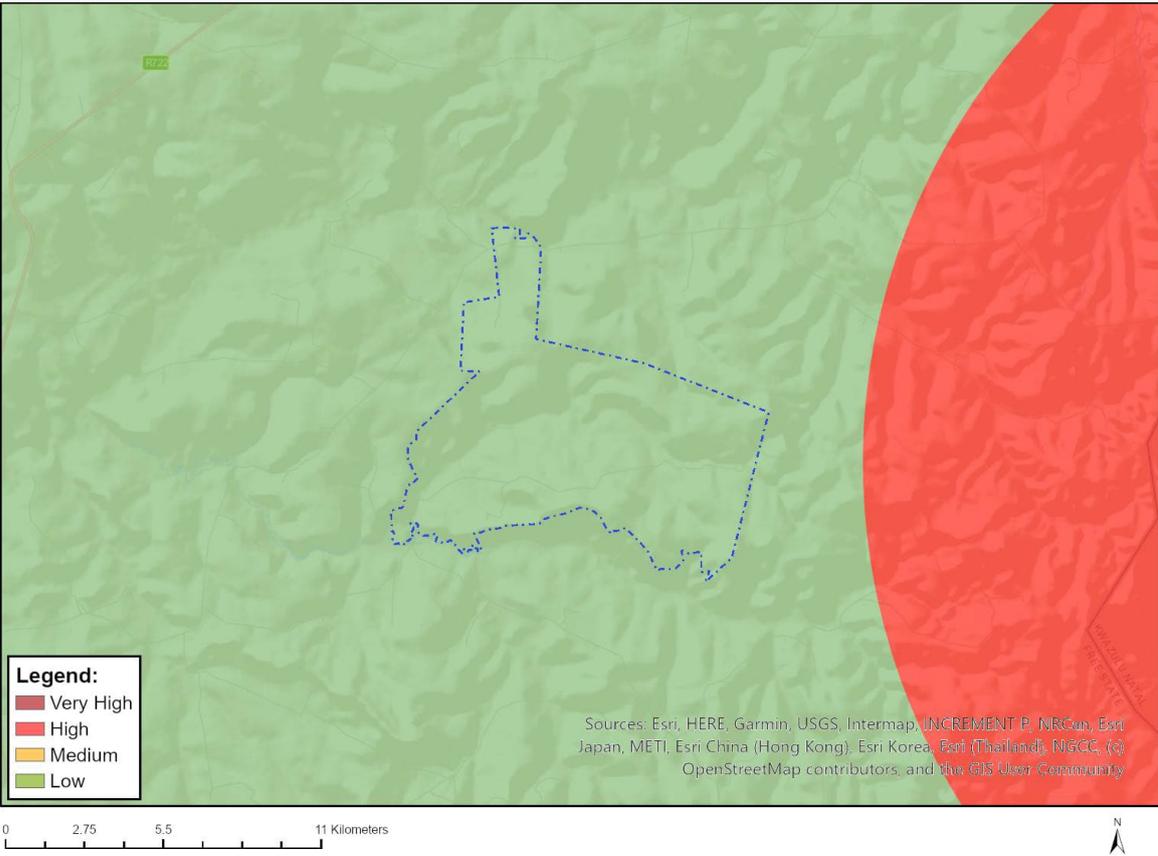


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE AVIAN (WIND) THEME SENSITIVITY

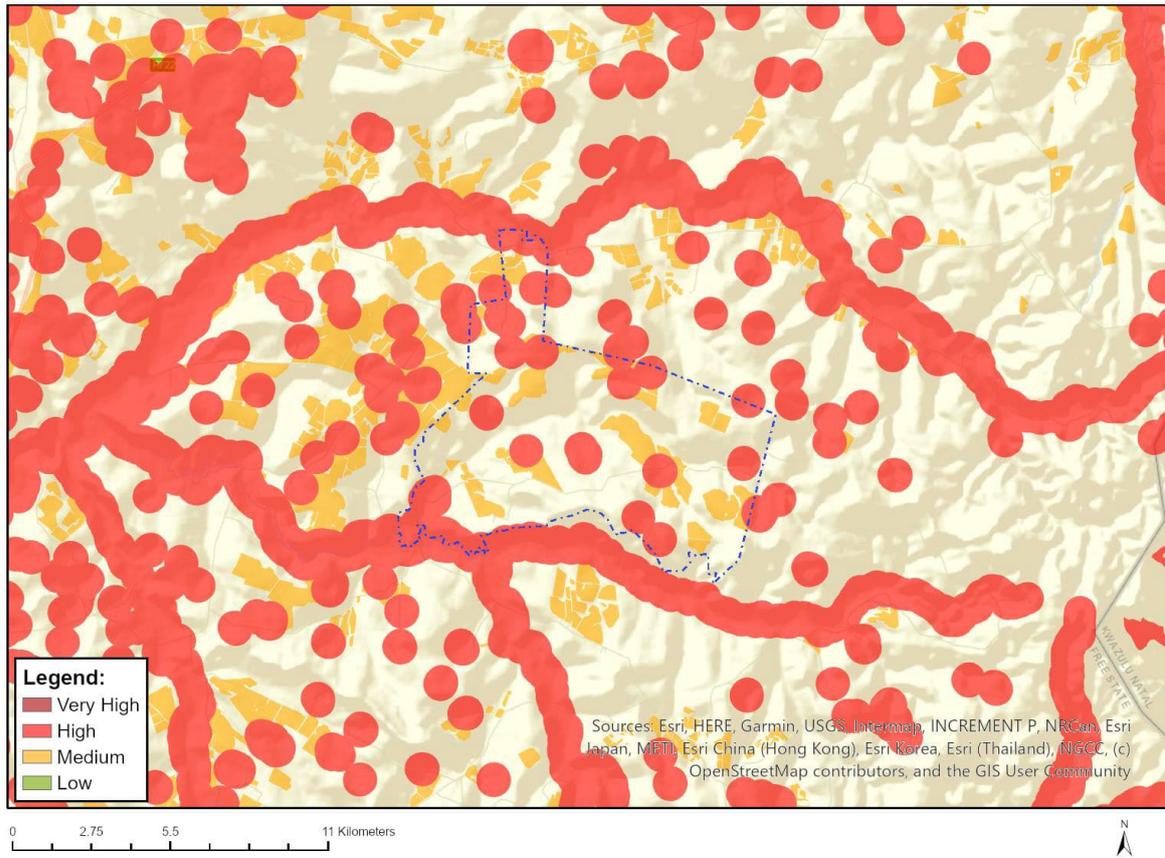


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Area Outside Sensitivities

MAP OF RELATIVE BATS (WIND) THEME SENSITIVITY

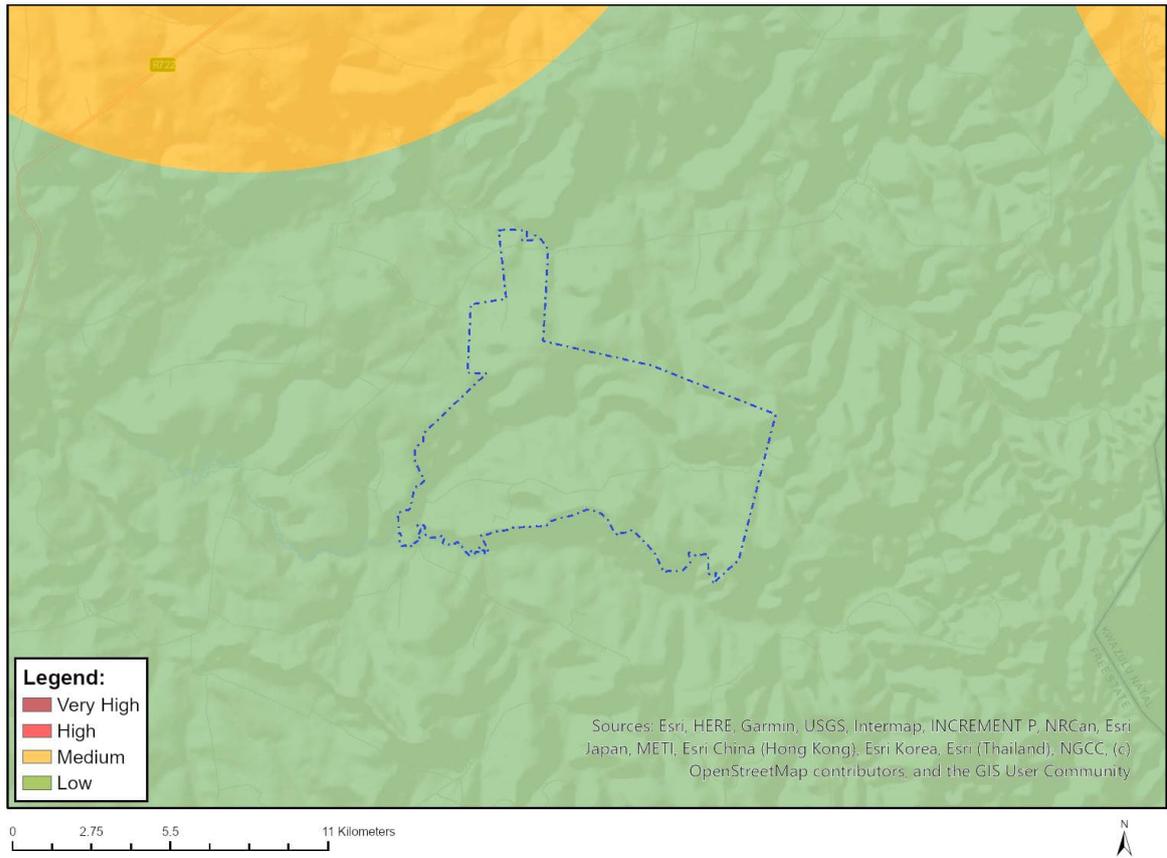


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 500 m of a river
High	Wetland
High	Within 500 m of a wetland
Medium	Croplands

MAP OF RELATIVE CIVIL AVIATION (WIND) THEME SENSITIVITY

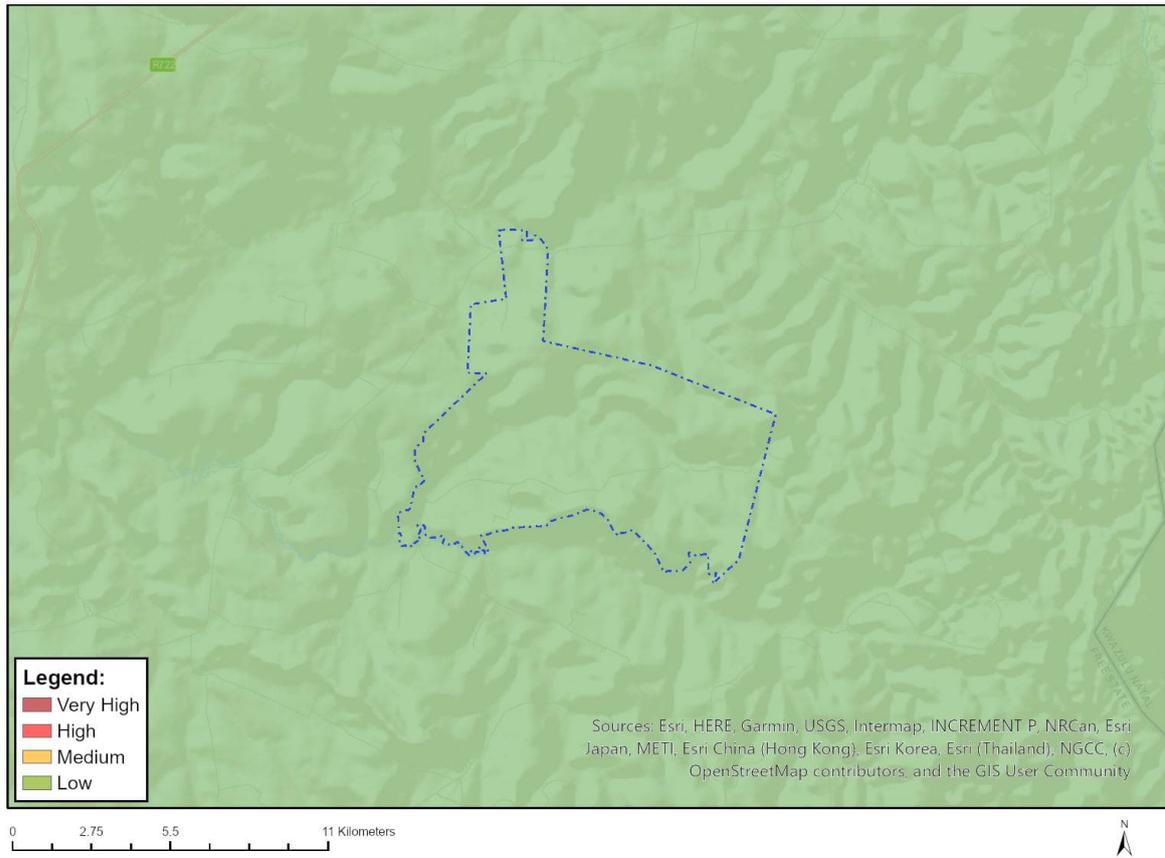


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE DEFENCE (WIND) THEME SENSITIVITY

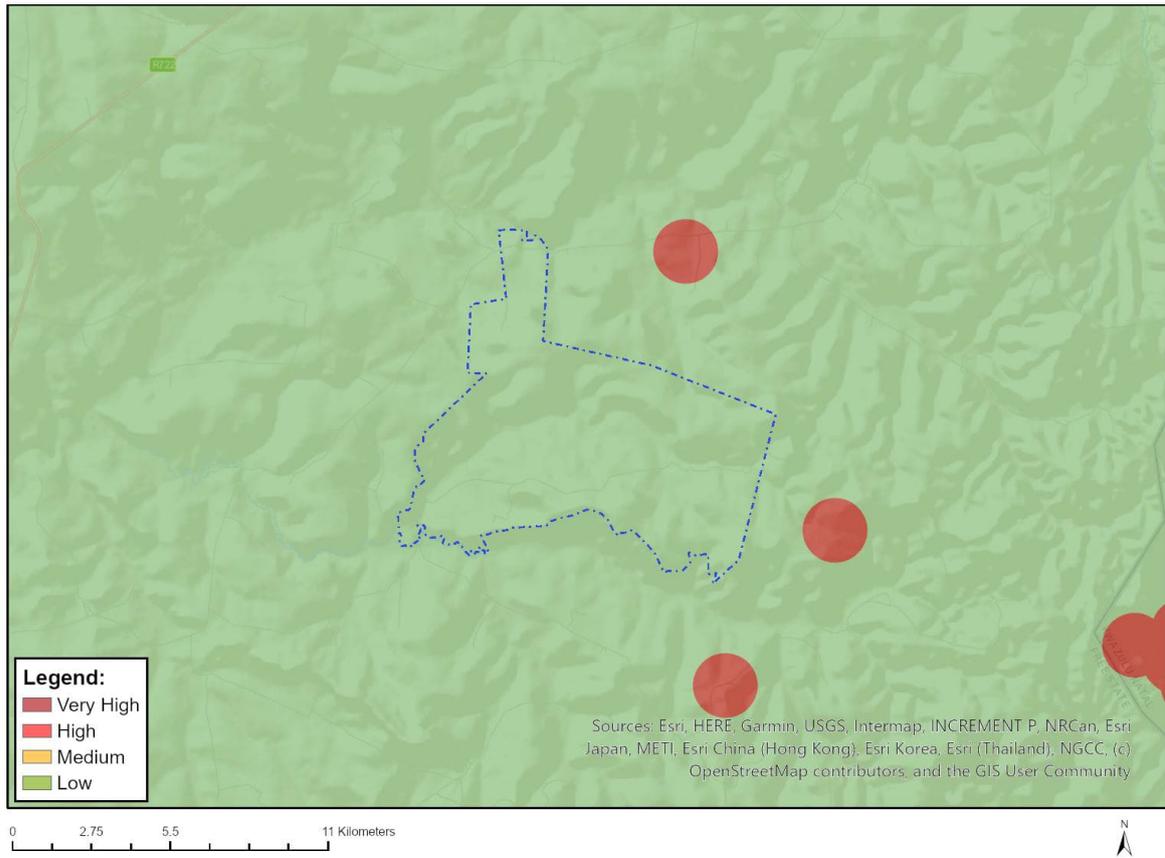


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE FLICKER THEME SENSITIVITY

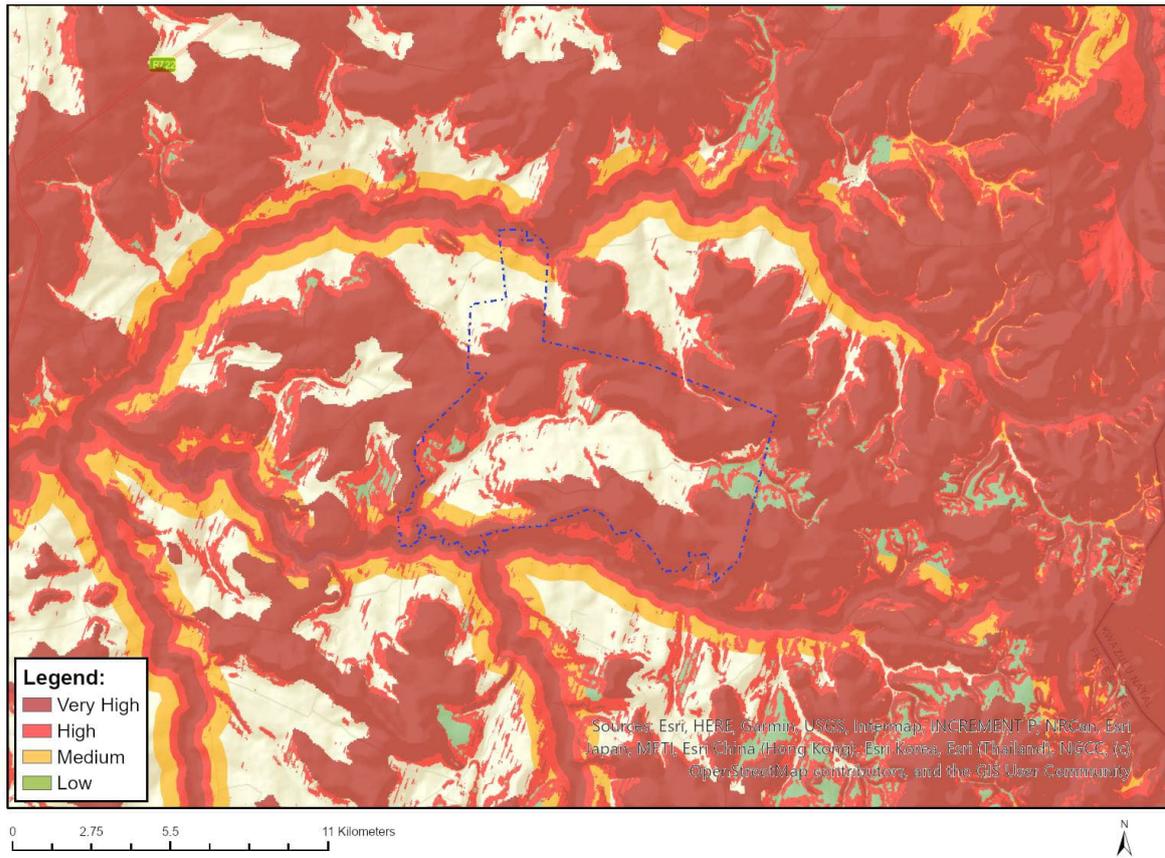


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Area of low sensitivity

MAP OF RELATIVE LANDSCAPE (WIND) THEME SENSITIVITY

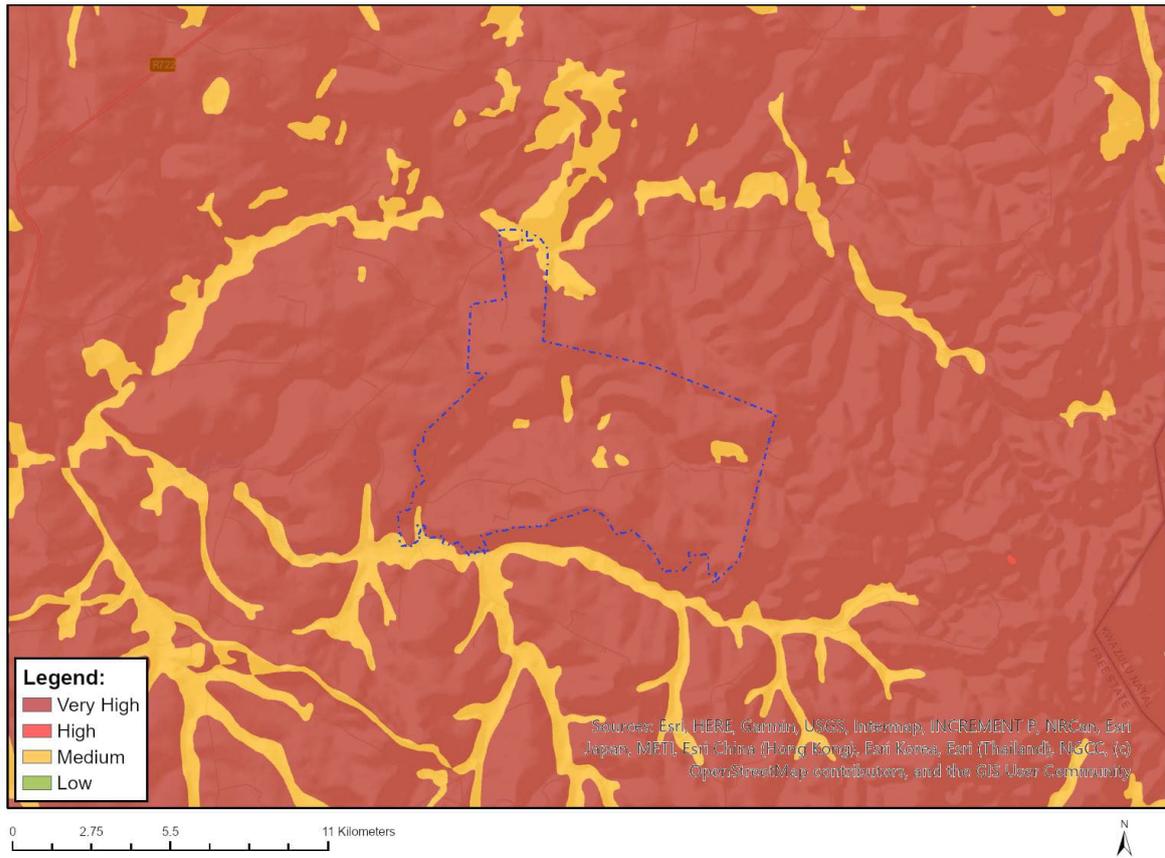


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Slope between 1:4 and 1:10
High	Within 500 m of a river
Low	Slope less than 1:10
Medium	Within 1000 m of a wetland
Very High	Mountain tops and high ridges
Very High	Slope more than 1:4
Very High	Within 250 m of a river

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

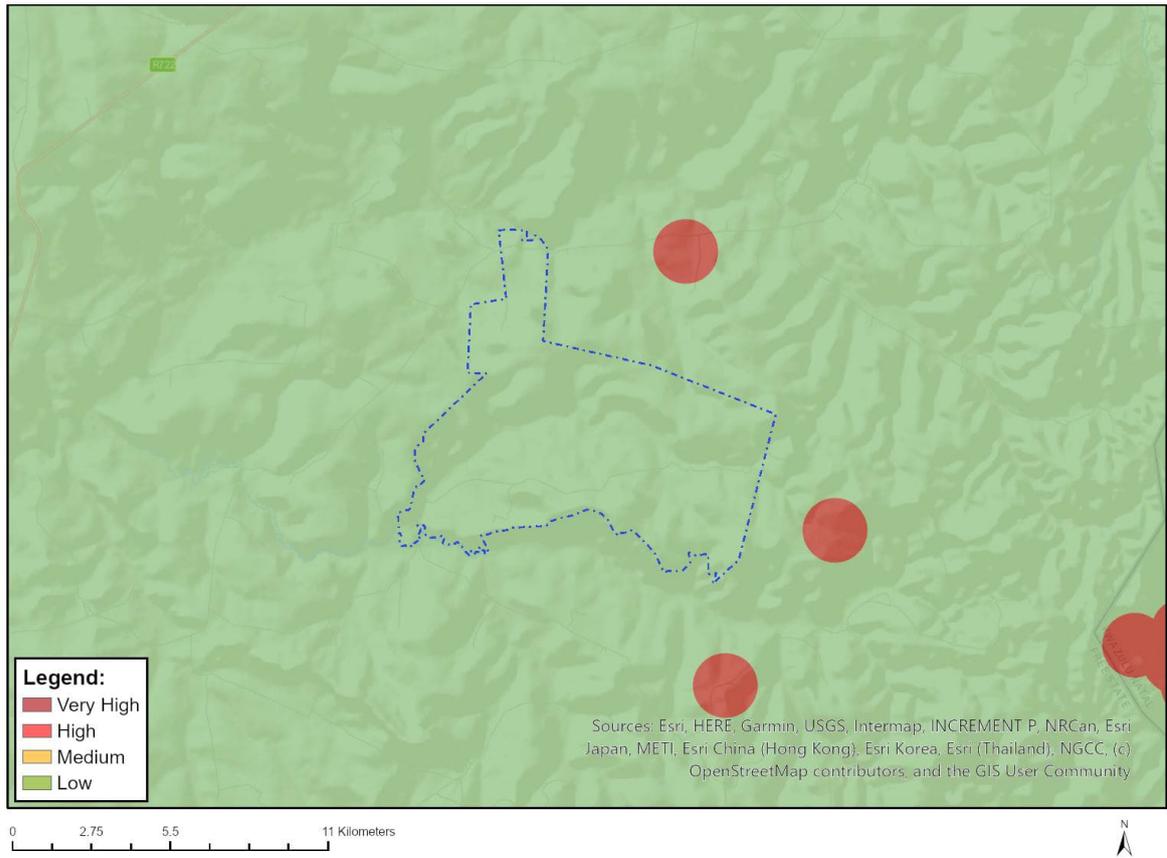


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

MAP OF RELATIVE NOISE THEME SENSITIVITY

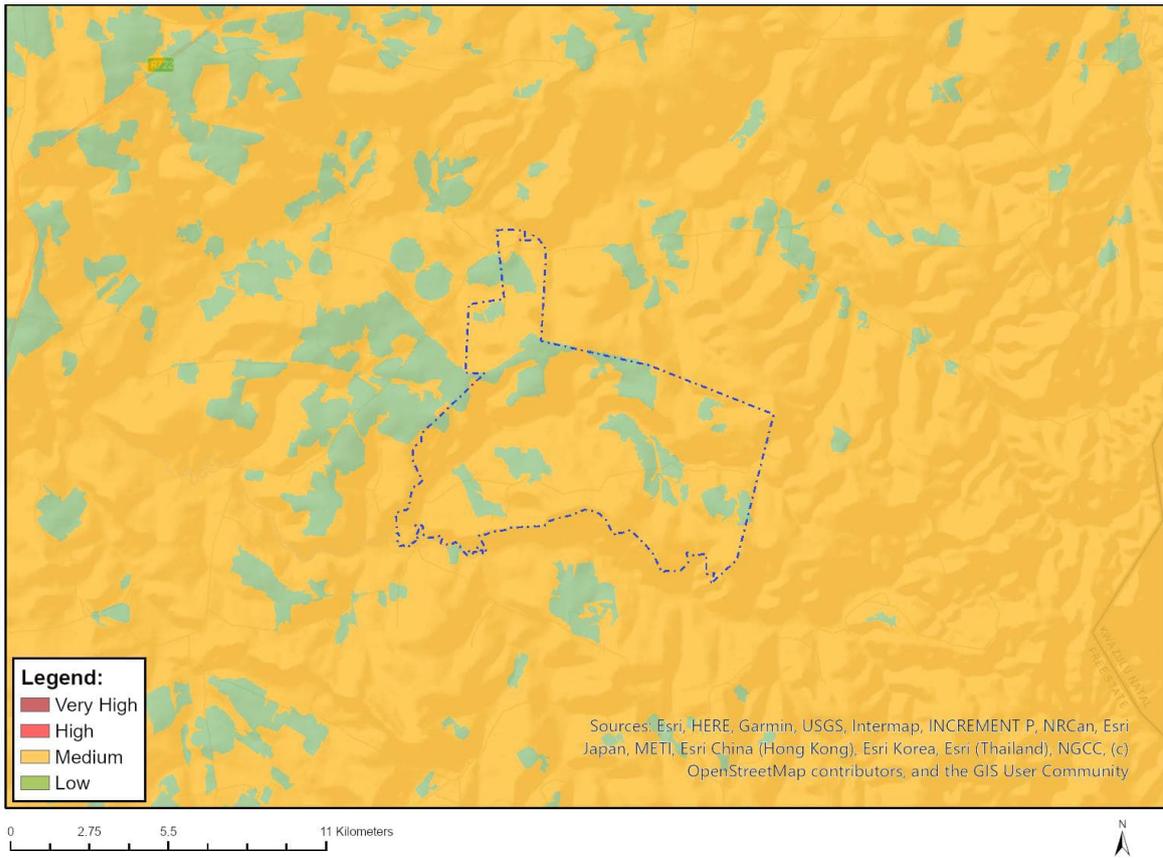


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Area of low sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



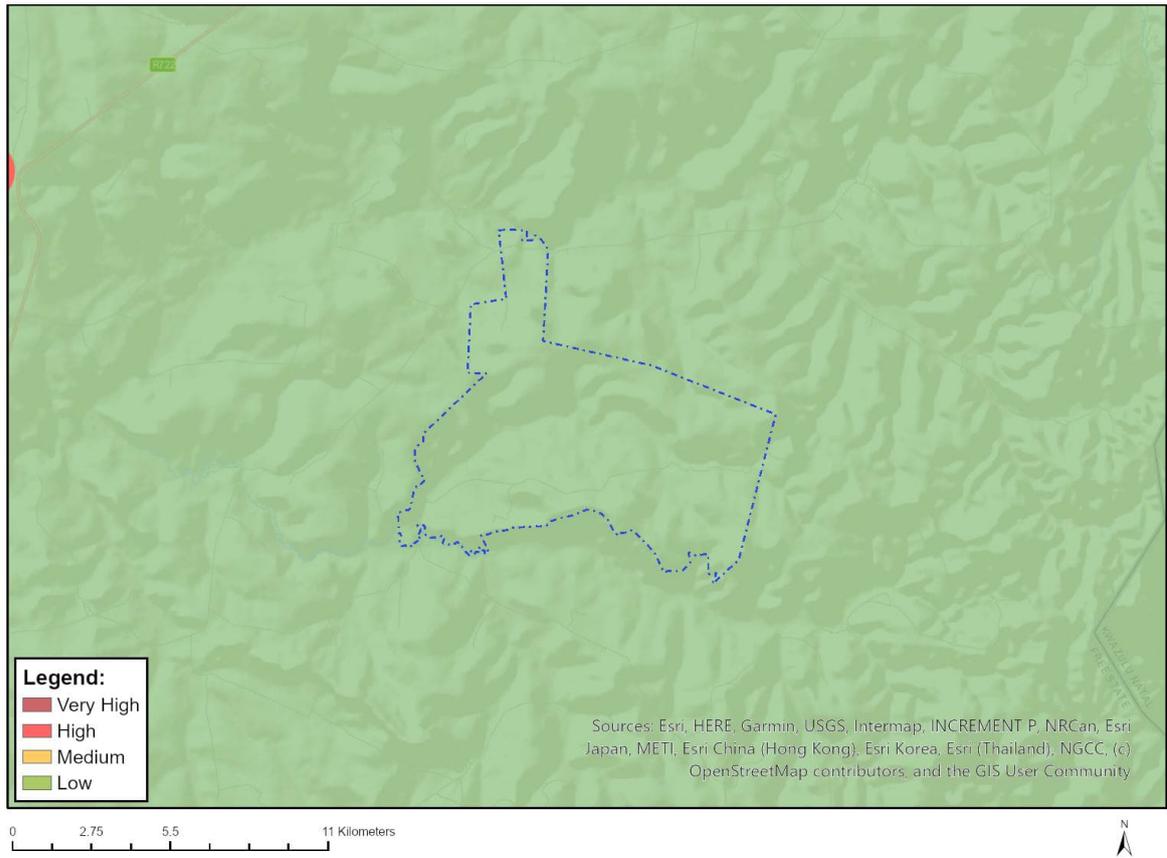
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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Medium	Sensitive species 1252
Medium	Sensitive species 998

MAP OF RELATIVE RFI (WIND) THEME SENSITIVITY

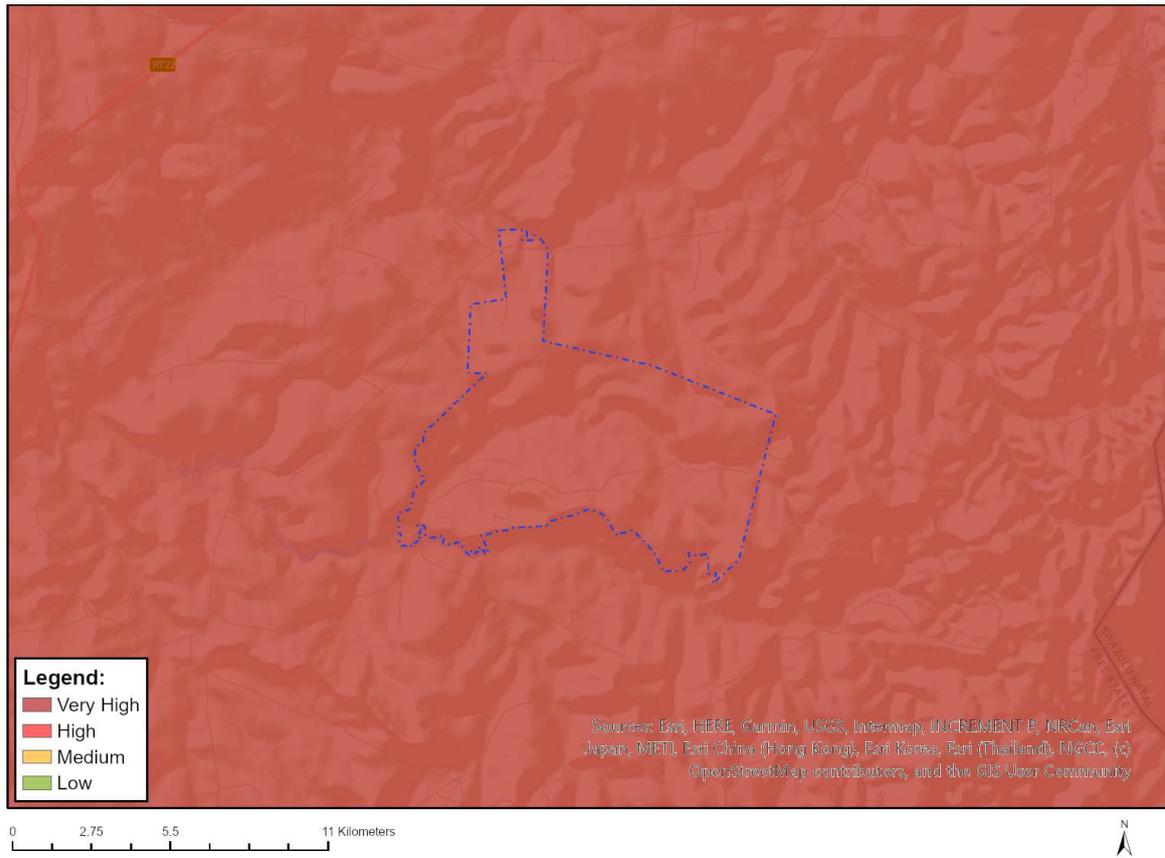


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

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

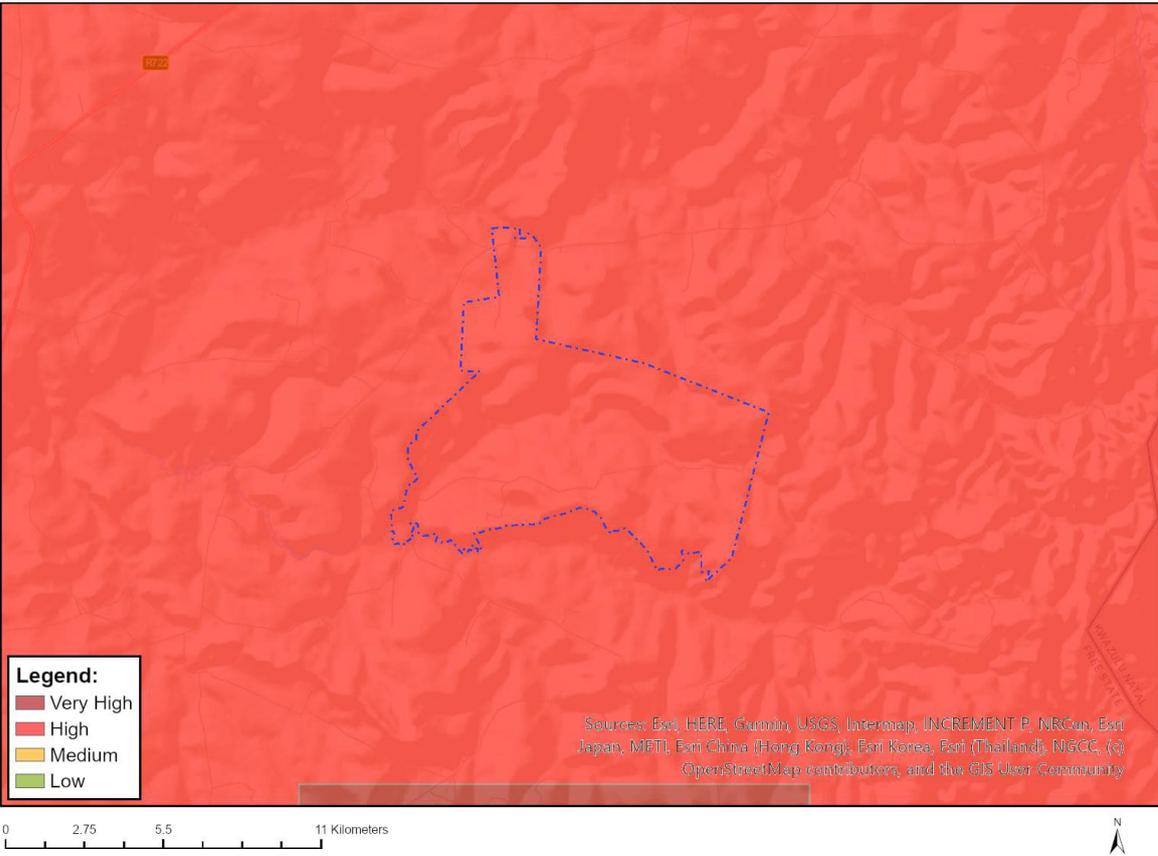


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	CBA 1
Very High	CBA 2
Very High	ESA 1
Very High	ESA 2
Very High	FEPA Subcatchment
Very High	National Protected Area Expansion Strategy (NPAES)

MAP OF RELATIVE VULTURE SPECIES THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	affecting an area between 10% - 20% of the population