# SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION OR FOR A PART TWO AMENDMENT OF AN ENVIRONMENTAL AUTHORISATION AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE ENVIRONMENTAL SENSITIVITY

EIA Reference number: TBC

**Project name:** Wind Relic - Ripponn (West 2)

**Project title:** Wind Relic - Ripponn (West 2)

Date screening report generated: 31/08/2020 08:56:38

**Applicant:** Ripponn (Pty) Ltd **Compiler:** Lisa Opperman

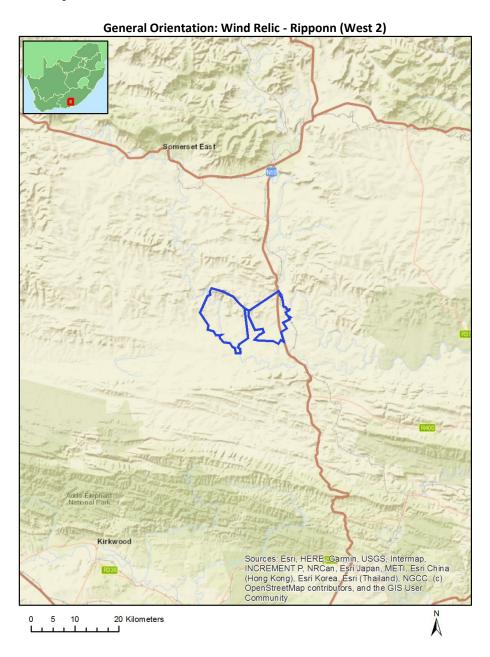
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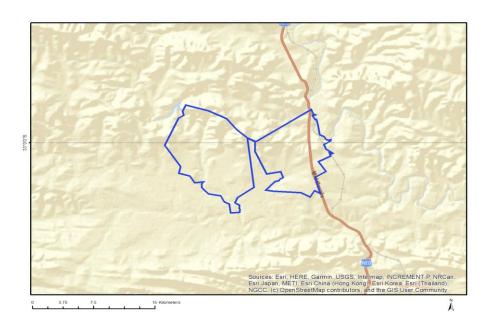
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# **Proposed Project Location**

# 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	Portion	Latitude	Longitude	Property
		No				Туре
1	MOORDENAARS DRIFT	174	0	32°57'9.88S	25°50'15.3E	Farm
2	DRIEFONTEIN	259	0	33°4'23.45S	25°49'42.39E	Farm
3	WILTON	409	0	32°57'57.15S	25°45'36.52E	Farm
4		431	0	33°2'39.55S	25°47'55.85E	Farm
5	BLOEMHOF	166	0	32°55'56.13S	25°41'50.3E	Farm
6	VOORSPOED	175	0	32°58'40.77S	25°50'8.45E	Farm
7		212	0	32°59'8.34S	25°41'32.66E	Farm
8	BOTHAS HOOP	358	0	33°5'38.23S	25°43'56.56E	Farm
9		385	0	33°2'48.26S	25°38'36.98E	Farm
10	HARTEBEEST KUIL	220	0	32°59'52.86S	25°47'47.17E	Farm
11	PAAUWKOM	223	0	33°2'6.58S	25°50'23.57E	Farm
12	KLEIN BEGIN	230	0	33°2'28.4S	25°46'9.51E	Farm
13		382	0	32°58'1.79S	25°38'36.46E	Farm
14	DRAAI HOEK	221	0	33°0'20.81S	25°50'37.07E	Farm
15		381	0	33°0'55.11S	25°42'31.64E	Farm
16		434	0	33°4'2.22S	25°48'12.75E	Farm
17	VOORSPOED	175	15	32°58'58.9S	25°49'47.11E	Farm Portion
18	VOORSPOED	175	14	32°59'32.82S	25°49'58E	Farm Portion
19		212	2	32°59'6.25S	25°41'32.23E	Farm Portion
20	DRAAI HOEK	221	5	33°0'44.08S	25°50'26.28E	Farm Portion
21	MOORDENAARS DRIFT	174	3	32°57'54.29S	25°49'24.06E	Farm Portion
22	HARTEBEEST KUIL	220	2	32°59'51.57S	25°49'18E	Farm Portion
23	DRAAI HOEK	221	31	33°0'48.01S	25°48'58.82E	Farm Portion
24	DRAAI HOEK	221	29	33°1'43.56S	25°49'7.95E	Farm Portion
25		381	0	33°0'37.12S	25°42'2.41E	Farm Portion
26	VOORSPOED	175	10	32°58'11.98S	25°49'37.7E	Farm Portion
27	HARTEBEEST KUIL	220	3	32°58'24.05S	25°49'16.15E	Farm Portion

28	HADTEDEECT VIIII	220	2	33°0'5.16S	25°48'17.49E	Farm Portion
29	HARTEBEEST KUIL HARTEBEEST KUIL	220	5	32°58'31.19S	25°48'55.17E	Farm Portion
30	DRAAI HOEK	221	4	33°1'16.29S	25°48'58.37E	Farm Portion
31	DRAAI HOEK	221	5	33°1'56.67S	25°49'3.76E	Farm Portion
32		220	4	32°59'50.26S	25°48'53.12E	Farm Portion
33	DRAAI HOEK	220	18	32 39 30.263 33°1'16.04S	25°50'19.83E	
34		221	21			Farm Portion
35	DRAAI HOEK	230	3	33°0'37.82S 33°1'50.6S	25°49'2.32E	Farm Portion
36	KLEIN BEGIN DRIEFONTEIN	259	3	33°4'23.45S	25°48'0.57E 25°49'42.39E	Farm Portion
37	DRIEFOINTEIN	381	0		25°42'47E	Farm Portion
38		381	8	33°3'50.78S 32°58'55.74S	25°41'37.17E	Farm Portion Farm Portion
39			2		25°39'39.98E	
40	HADTEDEECT KIIII	382 220	1	32°58'22.26S 33°1'0.05S		Farm Portion
	HARTEBEEST KUIL	-			25°47'1.17E	Farm Portion
41	DRAAI HOEK DRAAI HOEK	221	3	33°1'51.68S	25°48'40.81E	Farm Portion
42				32°59'54.63S	25°50'55.75E	Farm Portion
43	DRAALHOEK	221	3	33°1'51.68S	25°48'40.81E	Farm Portion
44	DRAAI HOEK	221	21	33°1'7.73S	25°48'32.23E	Farm Portion
45	PAAUWKOM	223	0	33°2'6.26S	25°50'24.39E	Farm Portion
46		381	12	32°59'11.47S	25°41'5.9E	Farm Portion
47		385	4	33°2'0.07\$	25°39'56.39E	Farm Portion
48		431	0	33°2'39.55S	25°47'55.85E	Farm Portion
49	DLOCMUOF	381	8	32°59'10.23S	25°41'15.16E	Farm Portion
50	BLOEMHOF	166	1	32°56'30.31S	25°42'31.19E	Farm Portion
51	VOORSPOED	175	1	32°58'4.81S	25°49'29.78E	Farm Portion
52	HARTEBEEST KUIL	220	0	32°59'32.4S	25°47'10.39E	Farm Portion
53	KLEIN BEGIN	230	0	33°1'42.64S	25°45'41.47E	Farm Portion
54	DRIEFONTEIN	259	3	33°4'14.87S	25°49'31E	Farm Portion
55		381	5	32°58'16.92S	25°40'30.22E	Farm Portion
56		381	6	33°0'31.75S	25°40'34.69E	Farm Portion
57		381	3	33°3'32.79S	25°43'17.46E	Farm Portion
58	WILTON	409	0	32°57'57.43S	25°45'36.19E	Farm Portion
59		434	0	33°4'2.22S	25°48'12.75E	Farm Portion
60		381	1	33°1'42.97S	25°41'52.33E	Farm Portion
61	_	382	0	32°58'21.62S	25°38'11.64E	Farm Portion
62	KLEIN BEGIN	230	2	33°1'14.82S	25°46'17.36E	Farm Portion
63	BOTHAS HOOP	358	0	33°4'38.28S	25°44'2.19E	Farm Portion
64		381	7	32°59'48.08S	25°42'44.89E	Farm Portion
65	VOORSPOED	175	16	32°58'27.8S	25°49'44.26E	Farm Portion
66	HARTEBEEST KUIL	220	0	32°58'39.24S	25°49'7.03E	Farm Portion
67	DRAAI HOEK	221	26	33°0'48.53S	25°50'21.75E	Farm Portion
68	DRAAI HOEK	221	30	33°1'7.37S	25°49'2.25E	Farm Portion
69	KLEIN BEGIN	230	5	33°3'27.19S	25°45'56.91E	Farm Portion
70	BOTHAS HOOP	358	2	33°3'42.28S	25°44'10.85E	Farm Portion
71		381	2	33°1'9.69S	25°43'13.66E	Farm Portion
72		431	0	33°2'39.55S	25°47'55.85E	Farm Portion
73	DRAAI HOEK	221	5	33°1'36.12S	25°49'25.05E	Farm Portion
74	DRAAI HOEK	221	4	33°0'42.59S	25°49'34.59E	Farm Portion
75	PAAUWKOM	223	2	33°2'29.43S	25°49'25.64E	Farm Portion
76	PAAUWKOM	223	0	33°2'6.26S	25°50'24.39E	Farm Portion
77		381	9	32°58'57.89S	25°40'39.86E	Farm Portion

Development footprint<sup>1</sup> vertices: No development footprint(s) specified.

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<sup>&</sup>lt;sup>1</sup> "development footprint", means the area within the site on which the development will take place and incudes 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.

# 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

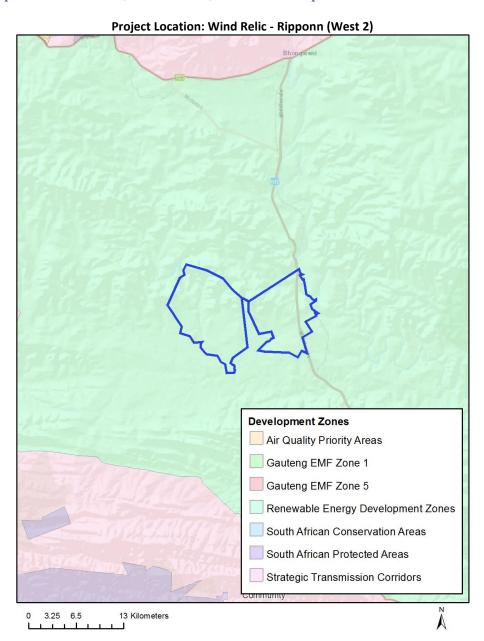
The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification that was selected. The application classification selected for this report is: Utilities Infrastructure | Electricity | Generation | Renewable | Wind | 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.

Incentiv	Implication
е,	
restricti	
on or	
prohibit	
ion	
Strategic	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GNR
Transmiss	350 of 13 April 2017.pdf
ion	
Corridor-	
Eastern	
corridor	
Renewabl	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GNR
e energy	350 of 13 April 2017.pdf
developm	
ent zones	
3-	
Cookhous	
е	

#### Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones



#### 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	Х			
Animal Species Theme		Х		

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31/08/2020

Aquatic Biodiversity Theme	Х			
Archaeological and Cultural		Х		
Heritage Theme				
Avian (Wind) Theme	Х			
Bats (Wind) Theme		Х		
Civil Aviation (Wind) Theme		Х		
Defence (Wind) Theme			Х	
Flicker Theme	Х			
Landscape (Wind) Theme	Х			
Noise Theme	Х			
Paleontology Theme		Х		
Plant Species Theme			Х	
RFI (Wind) Theme		Х		
Terrestrial Biodiversity Theme	Х			

#### Specialist assessments identified

Based on the selected classification, and the environmental sensitivities of the proposed development footprint, 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.

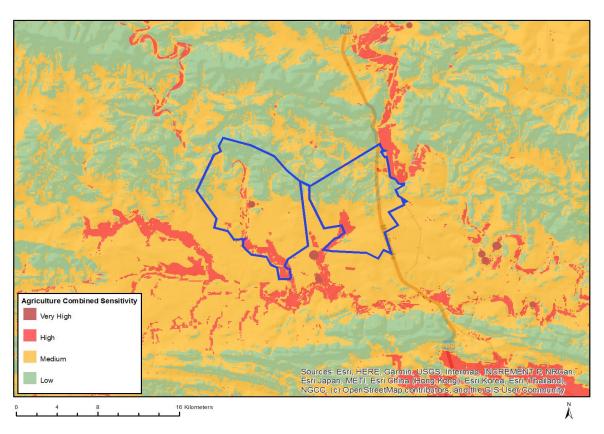
N 0	Specia list assess ment	Assessment Protocol
1	Agricult ural Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted_Agriculture_Assessment_Protocols.pdf
2	Landsca pe/Visu al Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted General Requirement Assessment Protocols.pdf
3	Archaeo logical and Cultural Heritag e Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted General Requirement Assessment Protocols.pdf
4	Palaeon tology Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ /DraftGazetted_General_Requirement_Assessment_Protocols.pdf
5	Terrestr ial Biodiver sity Impact Assess	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted Terrestrial Biodiversity Assessment Protocols.pdf

	ment	
6	Aquatic Biodiver sity Impact Assess	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted Aquatic Biodiversity Assessment.pdf
	ment	
7	Avian Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted General Requirement Assessment Protocols.pdf
8	Civil Aviation Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted Civil Aviation Installations Assessment Protocols.pdf
9	Defense Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted_Defence_Installations_Assessment_Protocols.pdf
0	RFI Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted_General_Requirement_Assessment_Protocols.pdf
1 1	Noise Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted Noise Impacts Assessment Protocols.pdf
1 2	Flicker Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted_General_Requirement_Assessment_Protocols.pdf
3	Traffic Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ /DraftGazetted General Requirement Assessment Protocols.pdf
1 4	Geotec hnical Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted General Requirement Assessment Protocols.pdf
1 5	Socio- Econom ic Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ /DraftGazetted General Requirement Assessment Protocols.pdf
1 6	Plant Species Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted General Requirement Assessment Protocols.pdf
7	Animal Species Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols /DraftGazetted General Requirement 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.

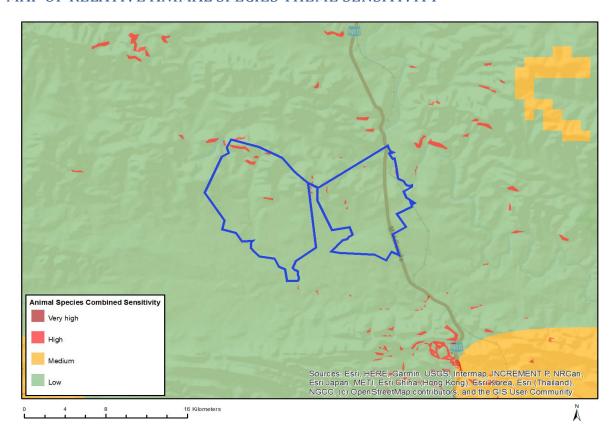
#### MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity	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
Very High	Pivot Irrigation;Land capability;09. Moderate-High/10. Moderate-High
Very High	Pivot Irrigation;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

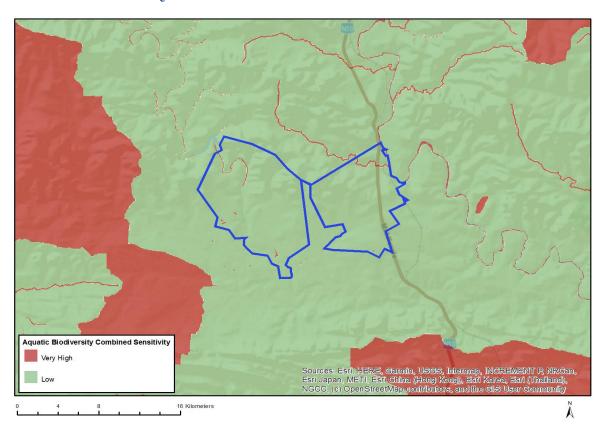
#### MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	Χ		

Sensitivity	Feature(s)
High	Aves-Aquila verreauxii
High	Aves-Circus maurus
Low	Low sensitivity

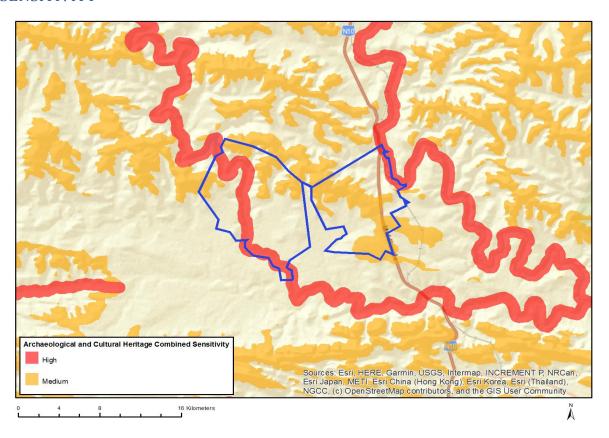
# MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Rivers
Very High	Wetlands and Estuaries

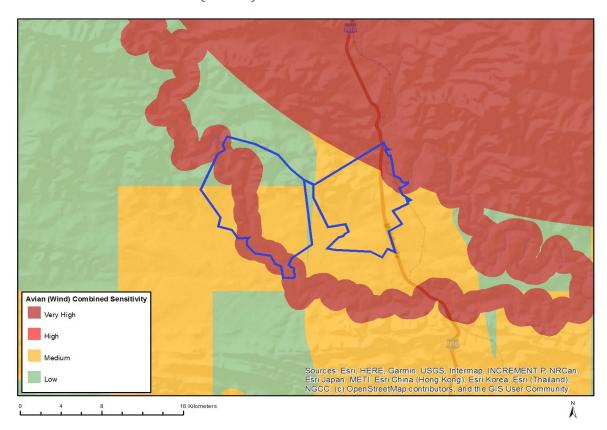
# MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	Х		

Sensitivity	Feature(s)
High	Within 500 m of an important river
Medium	Mountain or ridge

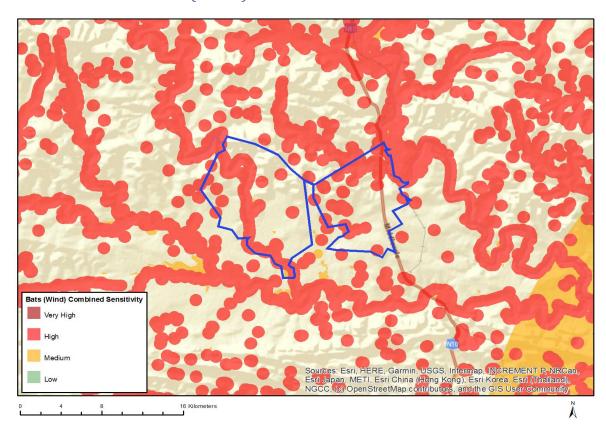
# MAP OF RELATIVE AVIAN (WIND) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

Sensitivity	Feature(s)
Low	Area Outside Sensitivities
Medium	within 5 km of power line ≥ 132kV
Medium	areas where susceptible large terrestrial birds were found to be present
Very High	within 1 km of major river Little Fish
Very High	within 50 km of Colonies; within 5 km of power line ≥ 132kV
Very High	within 1 km of major river Great Fish River; within 5 km of power line ≥ 132kV
Very High	within 1 km of major river Little Fish; areas where susceptible large terrestrial birds were found to be
	present
Very High	within 50 km of Colonies; within 1 km of major river Great Fish River; within 5 km of power line ≥ 132kV

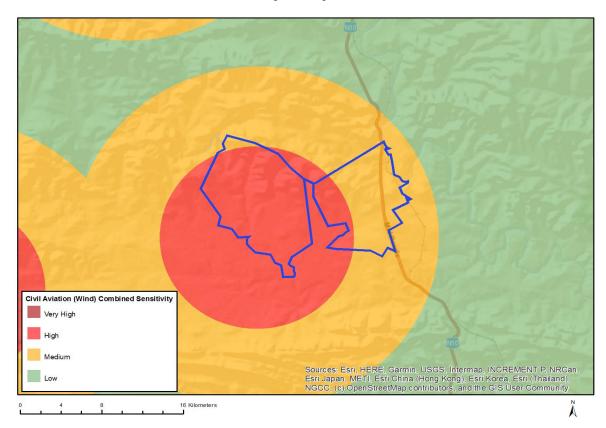
# MAP OF RELATIVE BATS (WIND) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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

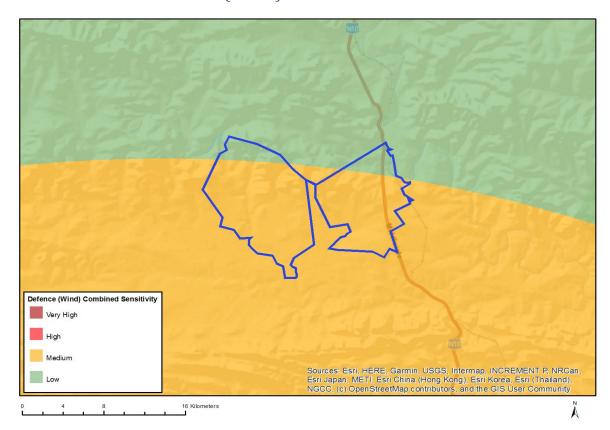
# MAP OF RELATIVE CIVIL AVIATION (WIND) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	Χ		

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

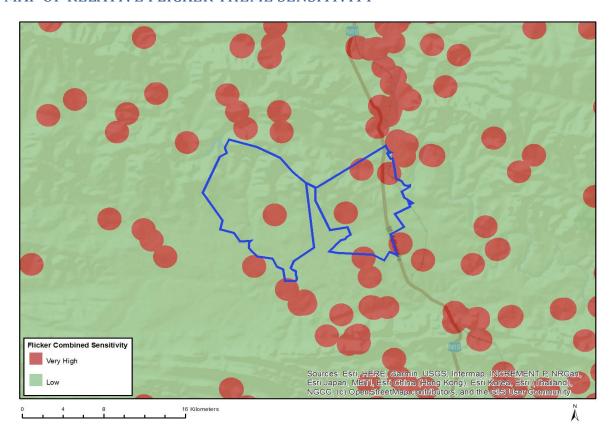
# MAP OF RELATIVE DEFENCE (WIND) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

Sensitivity	Feature(s)	
Low	Low sensitivity	
Medium	Defence Site	

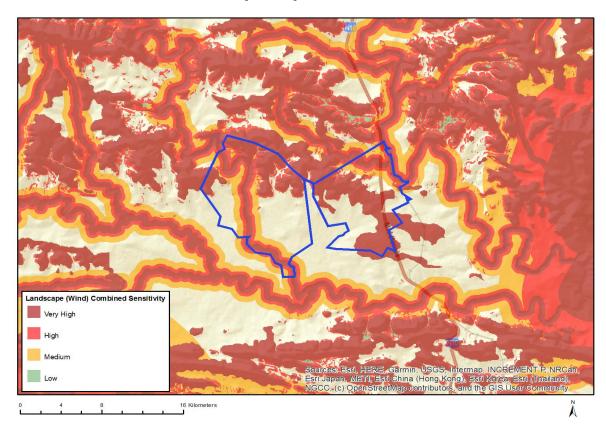
#### MAP OF RELATIVE FLICKER THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

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

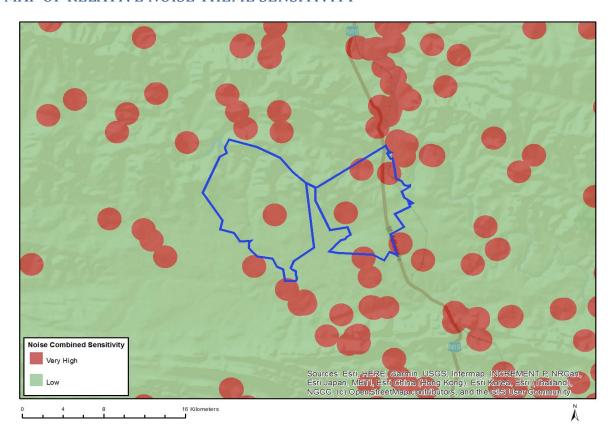
# MAP OF RELATIVE LANDSCAPE (WIND) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

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

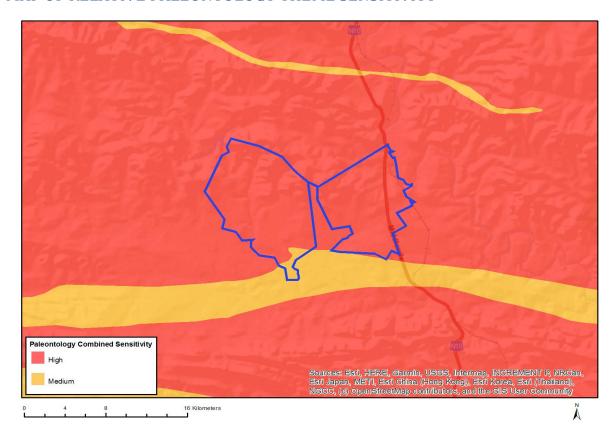
#### MAP OF RELATIVE NOISE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Х			

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

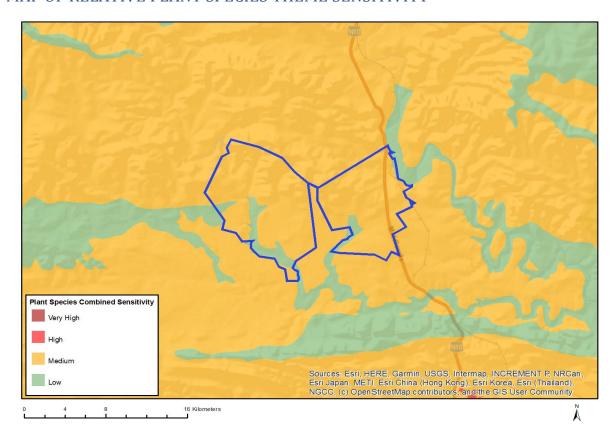
#### MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity	Feature(s)
High	Rock units with a high paleontological sensitivity
Medium	Rock units with a medium paleontological sensitivity

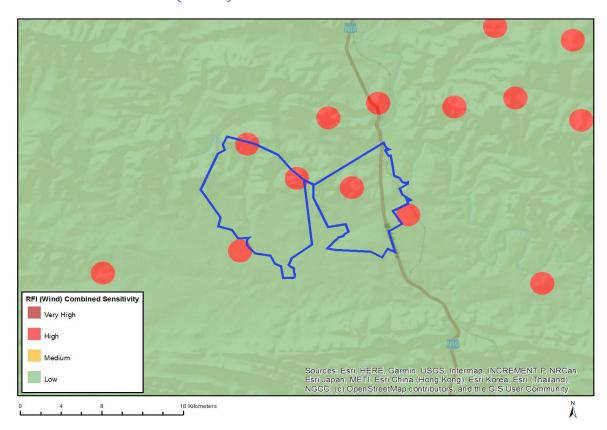
#### MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		Х	

Sensitivity	Feature(s)
Low	Low sensitivity
Medium	Sensitive species 275
Medium	Sensitive species 481

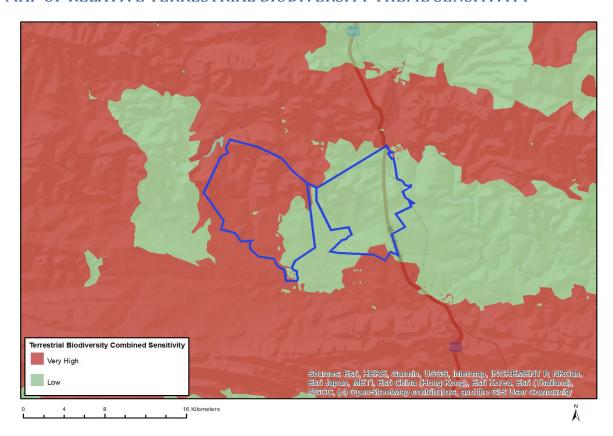
# MAP OF RELATIVE RFI (WIND) THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity	Feature(s)
High	Within 1 km of a telecommunication facility; None; More than 60 km from a Weather Radar installation
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
Х			

Sensitivity	Feature(s)
Low	Low Sensitivity
Very High	Critical Biodiversity Area 2
Very High	Ecological Support Area 1
Very High	Ecological Support Area 2