

**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 - Wind Garden (East 1)

Project title: Wind Relic - Wind Garden (East 1)

Date screening report generated: 31/08/2020 08:53:45

Applicant: Wind Garden (Pty) Ltd

Compiler: Lisa Opperman

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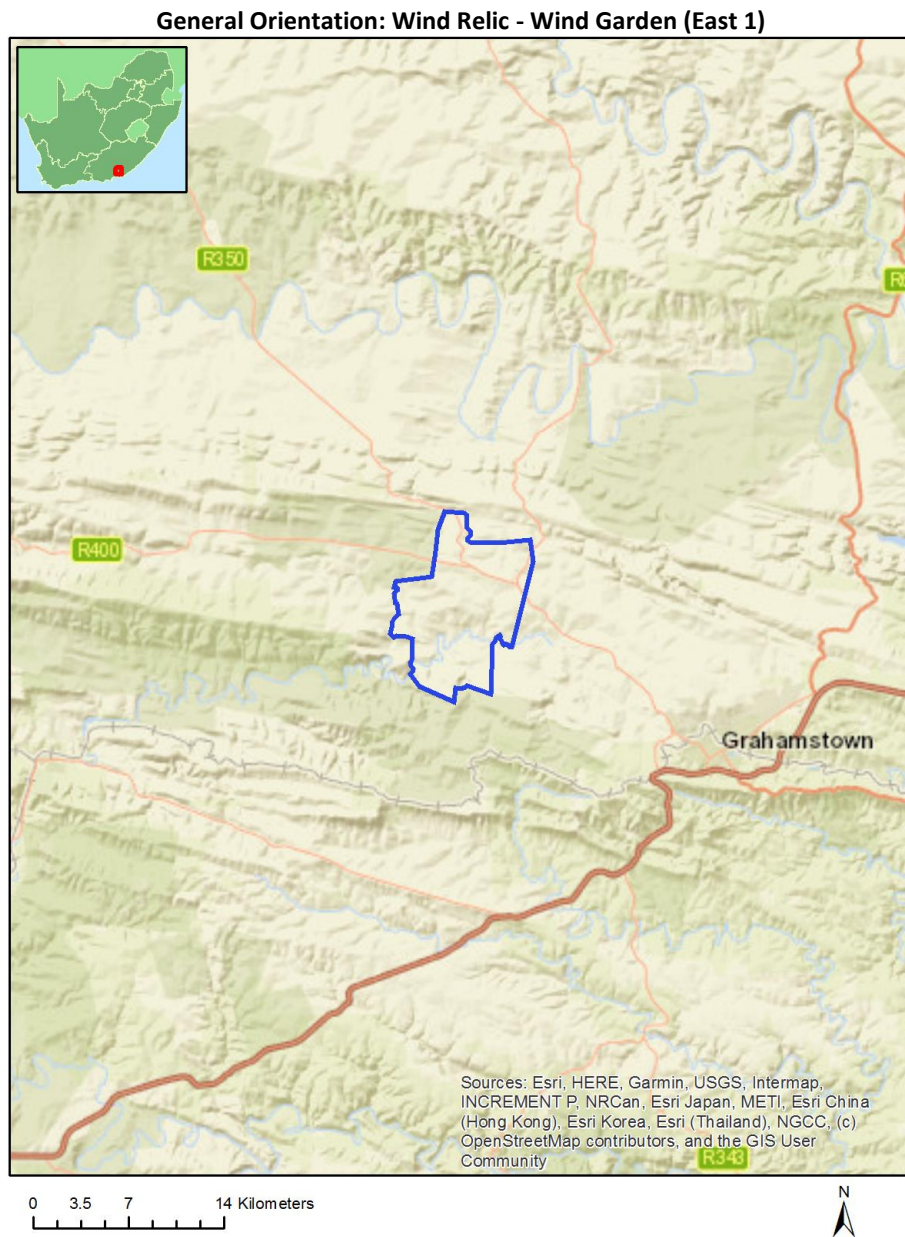
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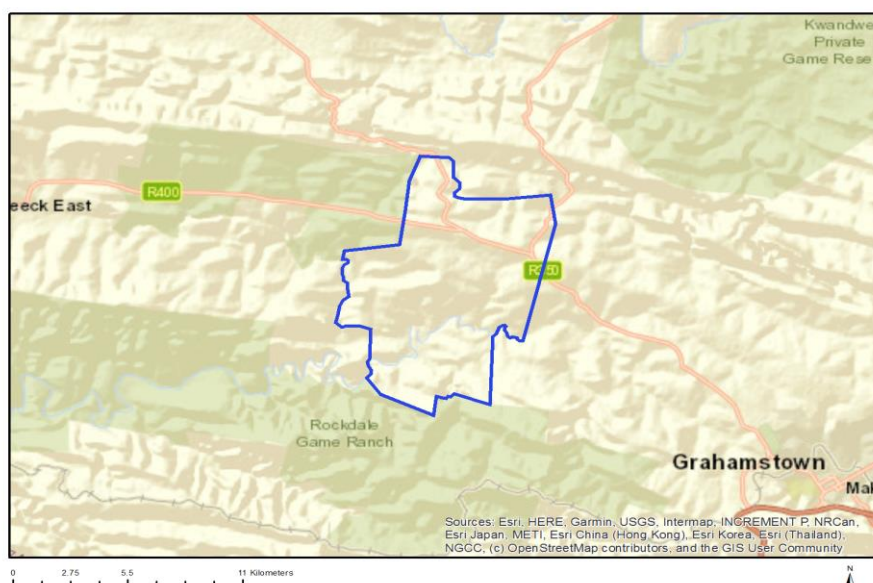
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Proposed Project Location

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		662	0	33°11'14.12S	26°19'20.05E	Farm
2	DOORNFONTEIN	268	0	33°16'54.35S	26°18'16.14E	Farm
3	HILTON	182	0	33°14'58.41S	26°21'16.4E	Farm
4	THORN KLOOF	554	0	33°15'31.9S	26°18'29.93E	Farm
5	CLIFTON	132	0	33°11'4.65S	26°22'52.28E	Farm
6	KRUISFONTEIN	252	0	33°17'50.22S	26°22'43.35E	Farm
7	YELLOW WOODS ANNEX	178	0	33°18'9.31S	26°19'48.25E	Farm
8	HILTON	182	0	33°14'55.37S	26°21'18.58E	Farm
9	HILTON	182	0	33°15'40.68S	26°22'2.29E	Farm
10	TABLE HILL	187	0	33°14'55.66S	26°25'20.38E	Farm
11		695	0	33°12'47.48S	26°18'28.18E	Farm
12		697	0	33°14'36.04S	26°18'28.05E	Farm
13	BRACK KLOOF	183	0	33°13'29.68S	26°22'31.51E	Farm
14	BRACK KLOOF	183	1	33°12'44.99S	26°23'13.47E	Farm Portion
15		172	0	33°14'5.81S	26°18'19.25E	Farm Portion
16	HILTON	182	3	33°15'31.7S	26°21'38.53E	Farm Portion
17	HILTON	182	2	33°16'14.61S	26°20'44.85E	Farm Portion
18	BRACK KLOOF	183	0	33°13'38.93S	26°22'22.82E	Farm Portion
19	HILTON	182	7	33°14'58.3S	26°21'16.63E	Farm Portion
20	GROENE FOUNTAIN	11	182	33°14'12.28S	26°19'21.66E	Farm Portion
21	VAALE KRANS	134	6	33°12'34.51S	26°18'56.07E	Farm Portion
22	HILTON	182	4	33°16'7.11S	26°22'25.56E	Farm Portion
23	HILTON	182	9	33°15'4.71S	26°22'13.39E	Farm Portion
24	HILTON	182	0	33°14'42.83S	26°20'3.71E	Farm Portion
25	KRUISFONTEIN	252	0	33°17'42.64S	26°23'0.85E	Farm Portion
26		695	0	33°12'44.77S	26°18'28.2E	Farm Portion
27	BURGHERS DRIFT	4	172	33°13'43.89S	26°18'23.32E	Farm Portion
28	CLIFTON	132	1	33°11'37.8S	26°24'32.59E	Farm Portion

29	CLIFTON	132	4	33°11'50.66S	26°22'22.36E	Farm Portion
30	THORN KLOOF	554	0	33°15'31.9S	26°18'29.93E	Farm Portion
31	CLIFTON	132	5	33°10'38.62S	26°23'3.34E	Farm Portion
32	YELLOW WOODS ANNEX	178	2	33°17'39.37S	26°20'25.88E	Farm Portion
33	HILTON	182	1	33°14'54.53S	26°21'19.3E	Farm Portion
34	TABLE HILL	187	1	33°14'16.81S	26°24'45.64E	Farm Portion
35	HILTON	182	5	33°13'30.82S	26°20'1.22E	Farm Portion
36	HILTON	182	10	33°15'24.24S	26°20'12.95E	Farm Portion
37	HILTON	182	8	33°14'20.06S	26°20'49.34E	Farm Portion
38	KRUISFONTEIN	252	1	33°16'32.78S	26°21'36.77E	Farm Portion
39	DOORNFONTEIN	268	0	33°16'48.28S	26°18'54.62E	Farm Portion
40		697	0	33°14'33.33S	26°18'28.07E	Farm Portion
41	HILTON	182	12	33°14'13.27S	26°20'4.42E	Farm Portion
42		662	0	33°11'19.77S	26°19'20.01E	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 | Wind.

Relevant development incentives, restrictions, exclusions or prohibitions

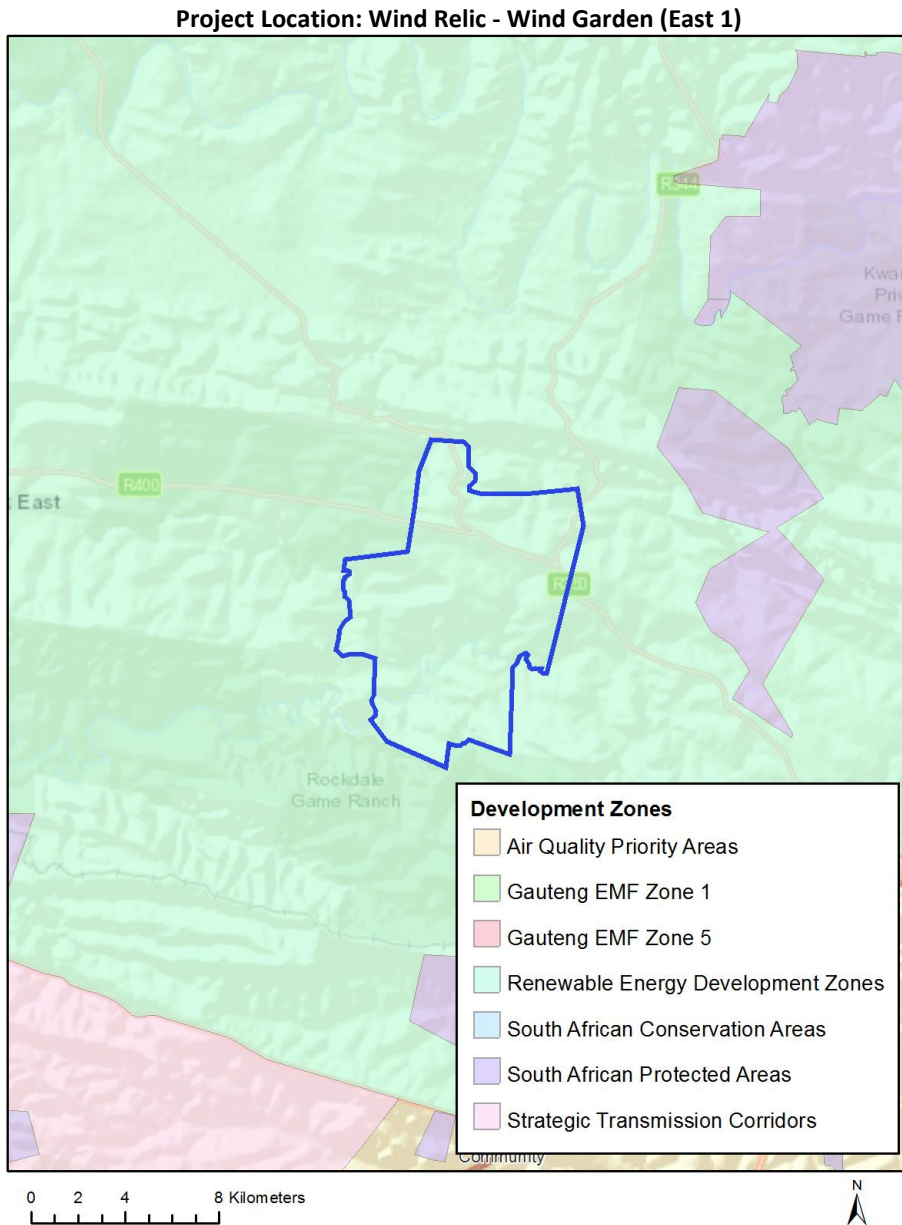
The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

Incentive,	Implication
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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.

restricti on or prohibit ion	
Strategic Transmiss ion Corridor- Eastern corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GNR_350_of_13_April_2017.pdf
Renewabl e energy developm ent zones 3- Cookhous e	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GNR_350_of_13_April_2017.pdf

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		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			
Noise Theme	X			
Paleontology Theme		X		
Plant Species Theme			X	
RFI (Wind) Theme		X		
Terrestrial Biodiversity Theme	X			

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.

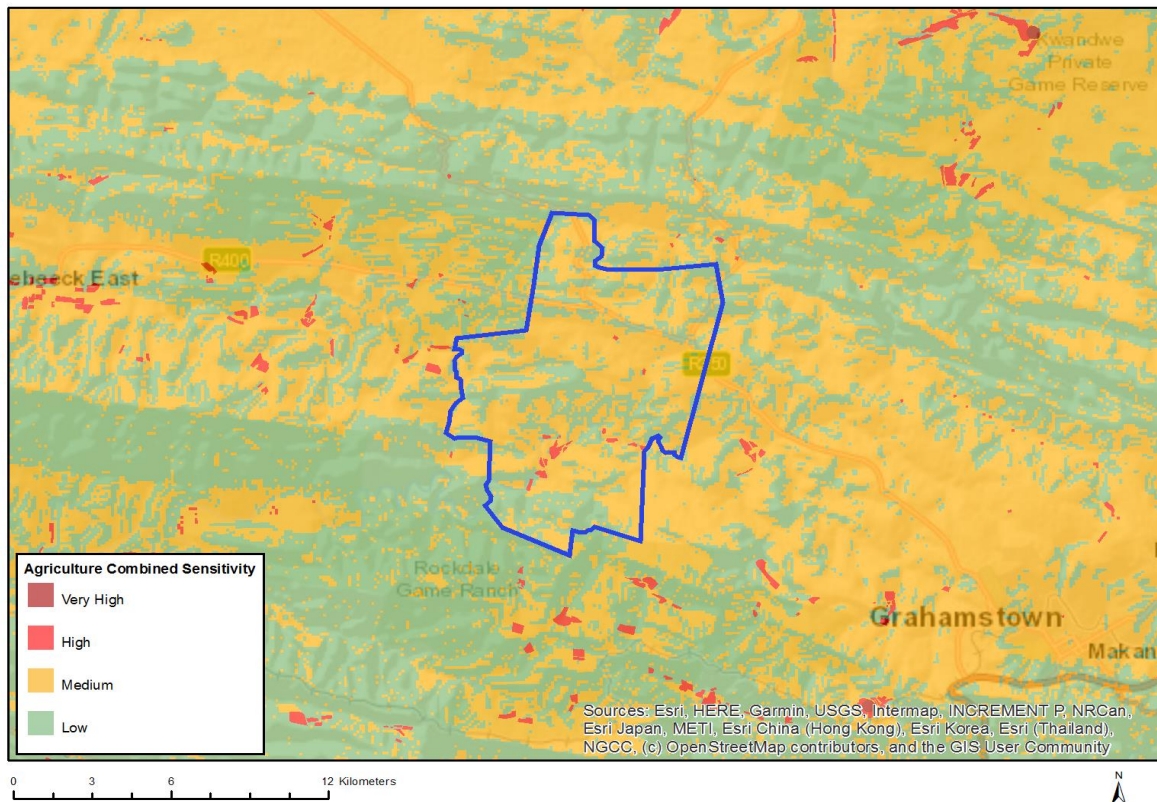
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
3	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
4	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
5	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf

	ment	
6	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Aquatic_Biodiversity_Assessment.pdf
7	Avian Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
8	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf
9	Defense Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Defence_Installations_Assessment_Protocols.pdf
10	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
11	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Noise_Impacts_Assessment_Protocols.pdf
12	Flicker Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
13	Traffic Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
14	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
15	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
16	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf
17	Animal Species Assessment	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

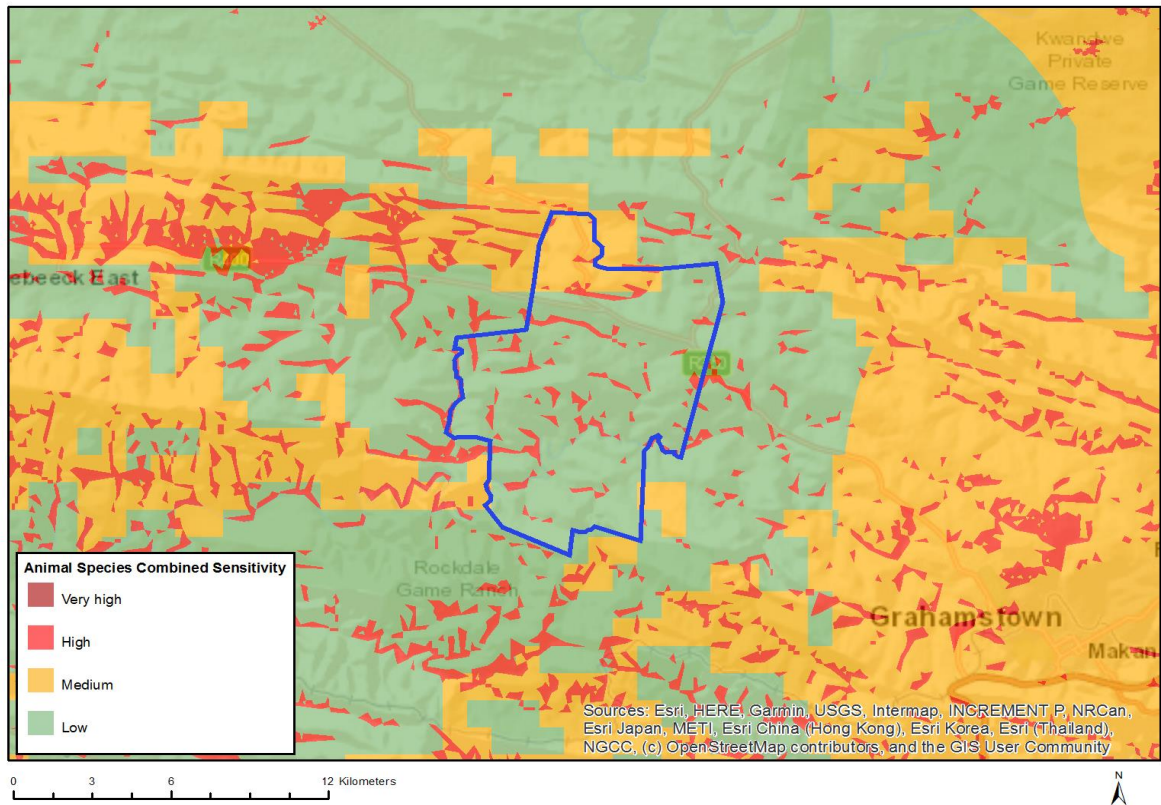


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity 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
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

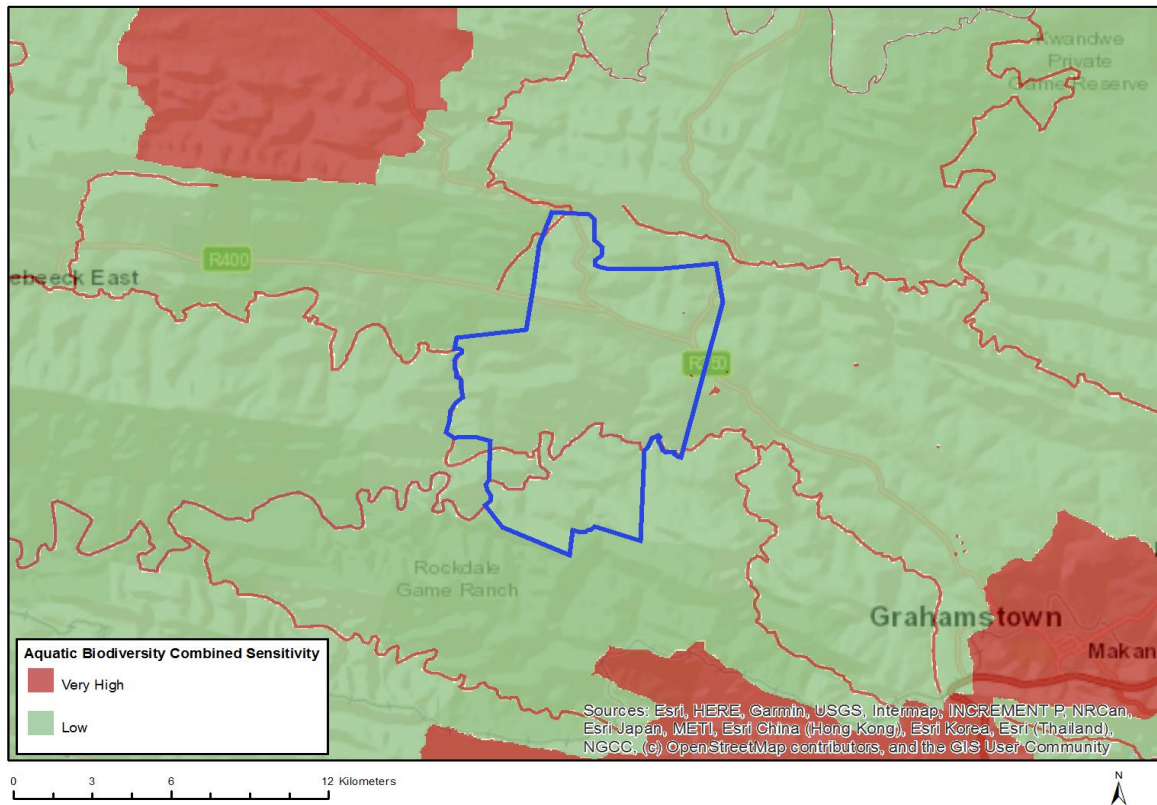


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Aves-Circus maurus
Low	Low sensitivity
Medium	Mammalia-Ourebia ourebi ourebi

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

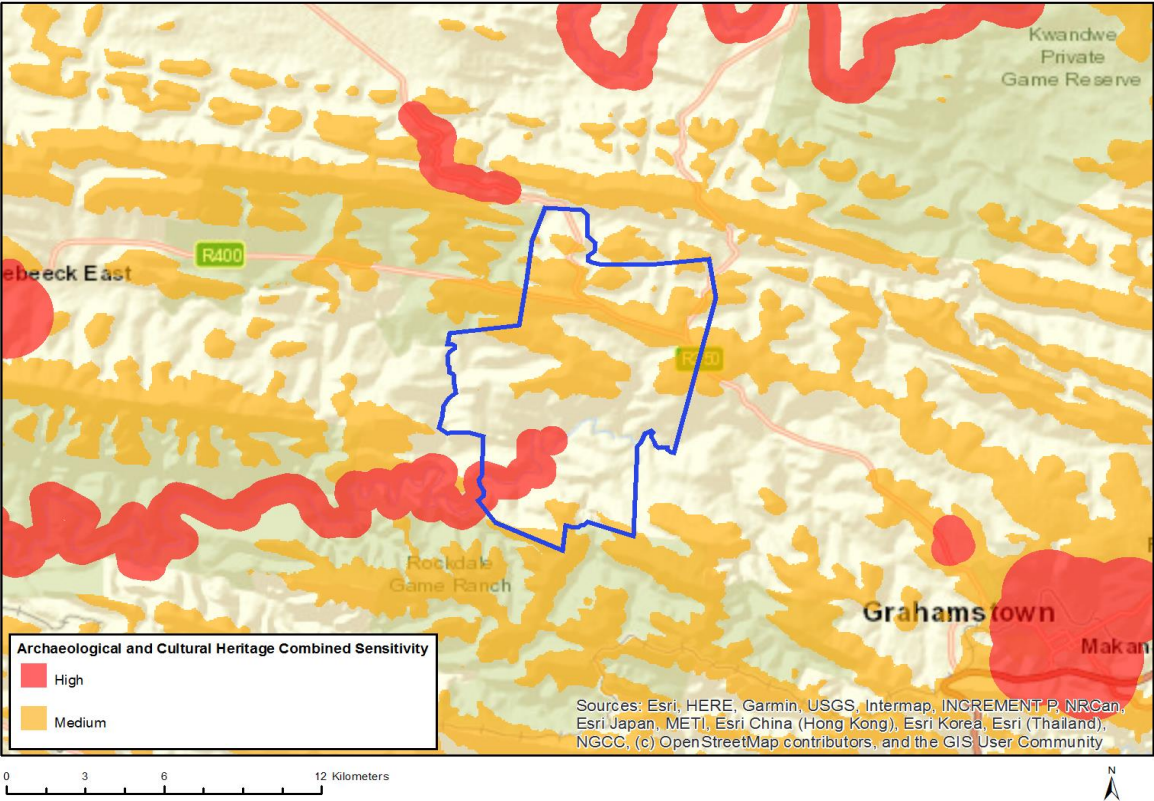


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

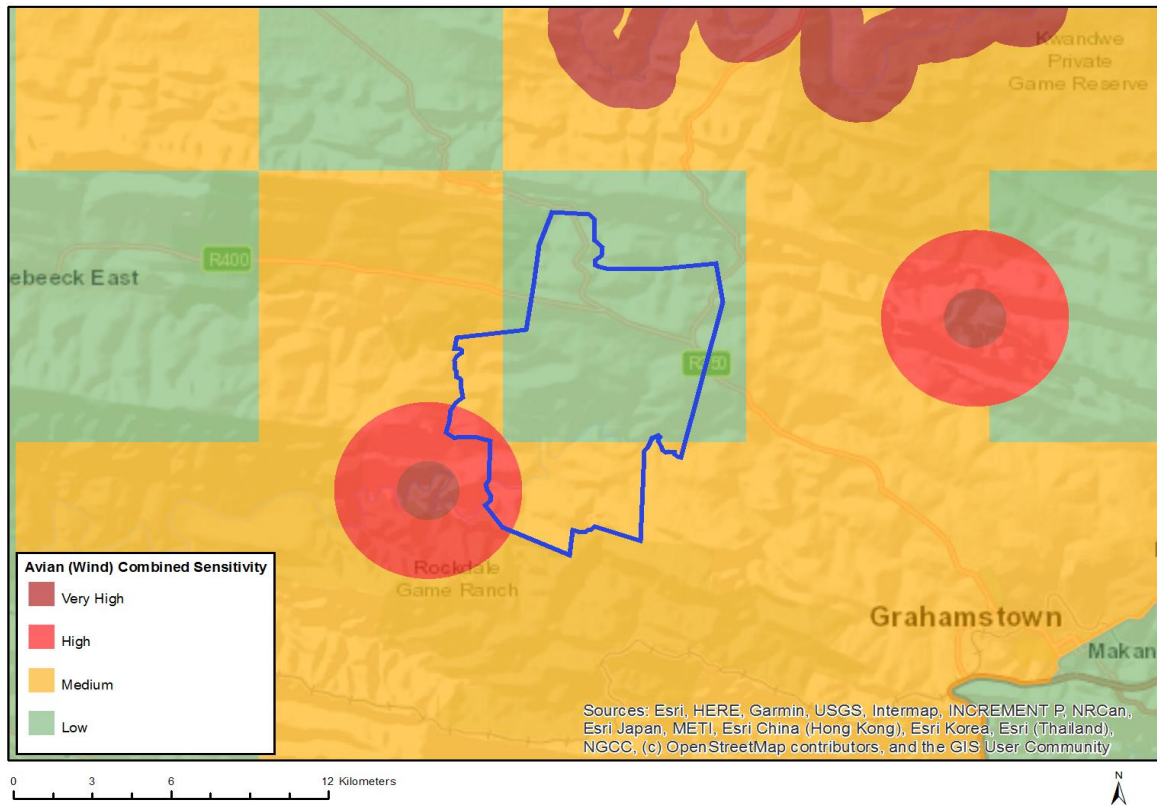


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE AVIAN (WIND) THEME SENSITIVITY

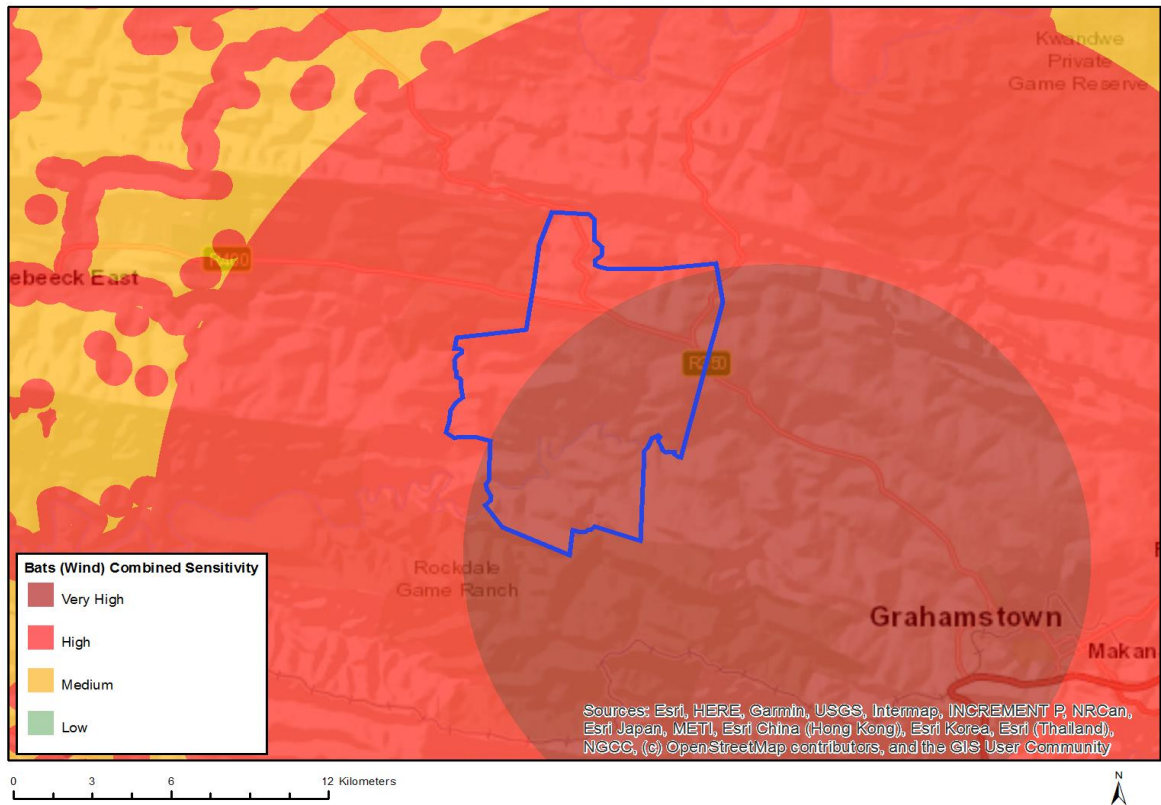


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	between 1 and 3 km from Lanner Falcon nest sites
High	between 1 and 3 km from Lanner Falcon nest sites; areas where susceptible large terrestrial birds were found to be present
Low	Area Outside Sensitivities
Medium	areas where susceptible large terrestrial birds were found to be present

MAP OF RELATIVE BATS (WIND) THEME SENSITIVITY

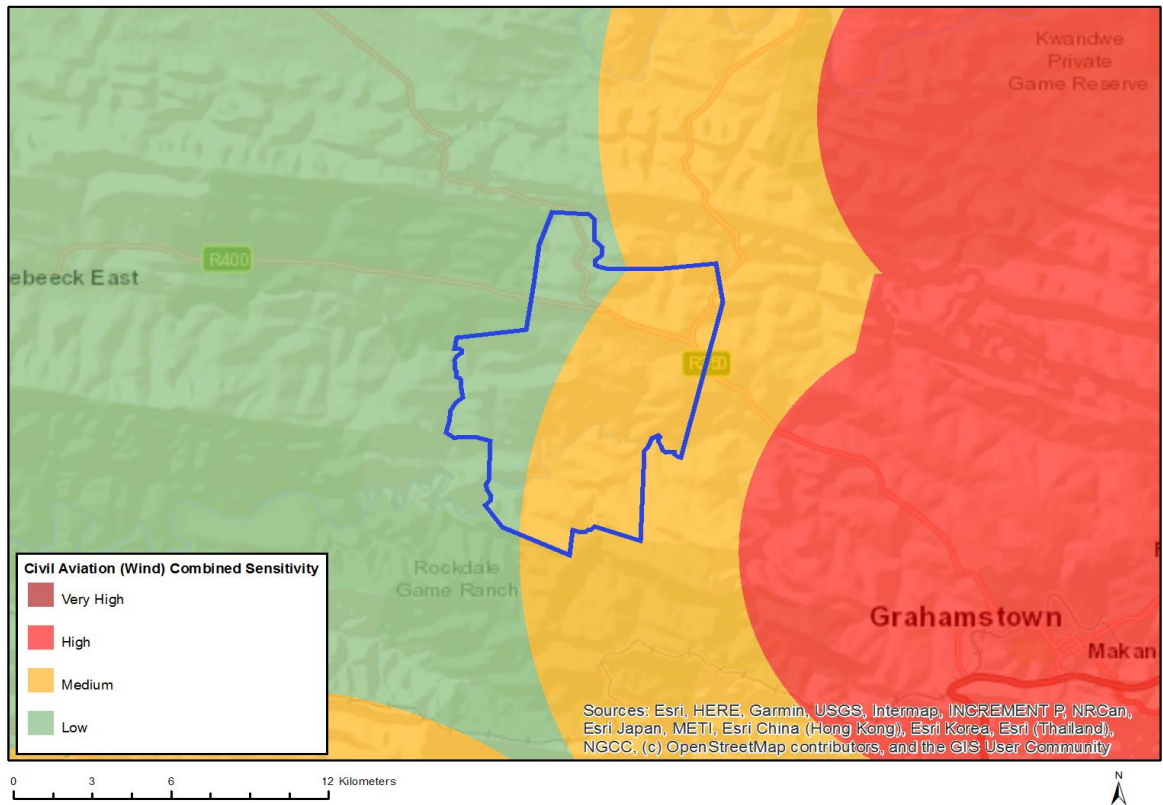


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	Between 10 and 20 km from a large bat roost
High	Bat roost
High	Within 500 m of a river
High	Wetland
High	Within 500 m of a wetland
Medium	Croplands
Medium	Within 10 km of an unconfirmed bat roost
Very High	Within 10 km of a large bat roost

MAP OF RELATIVE CIVIL AVIATION (WIND) THEME SENSITIVITY

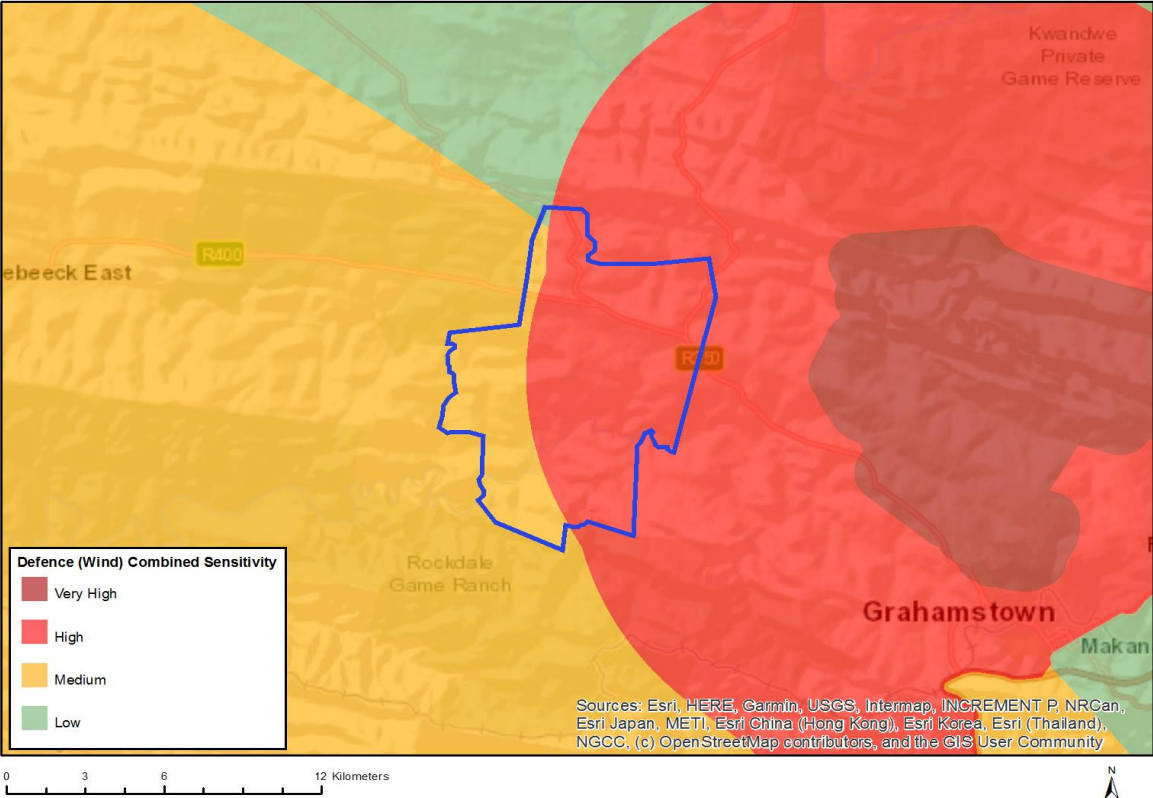


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE (WIND) THEME SENSITIVITY

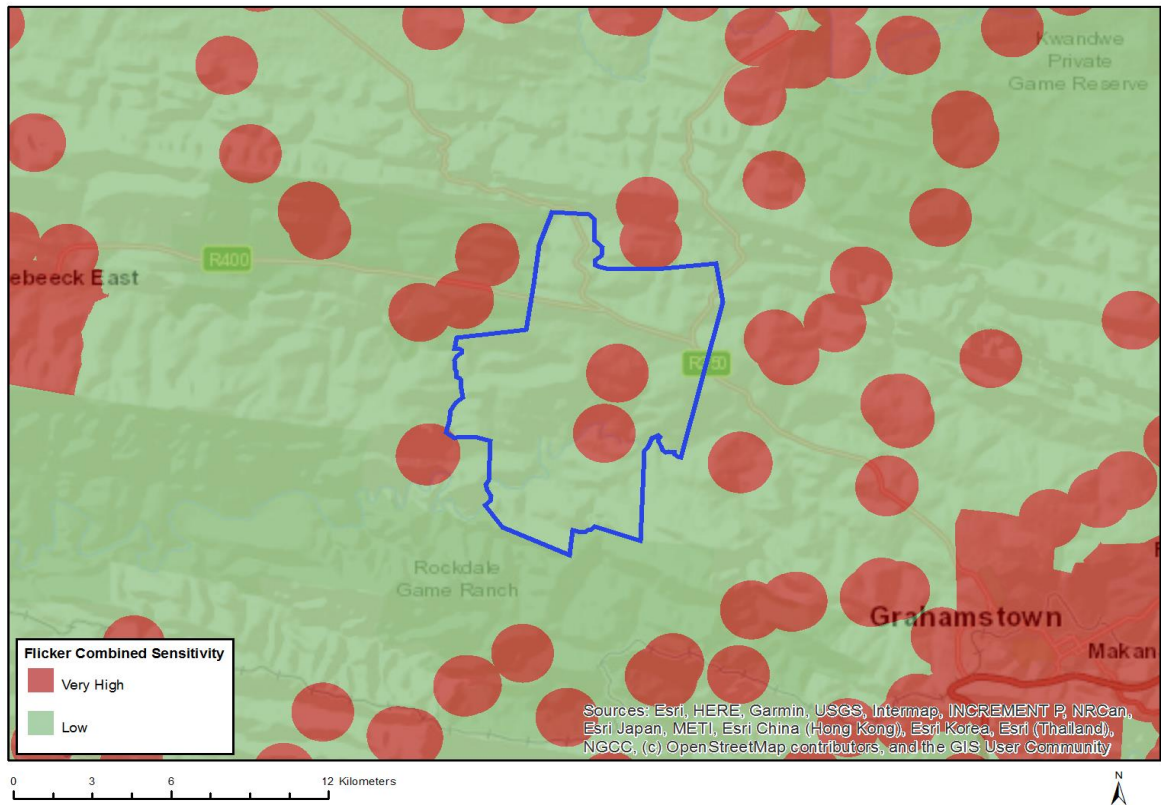


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Defence Site
Low	Low sensitivity
Medium	Defence Site

MAP OF RELATIVE FLICKER THEME SENSITIVITY

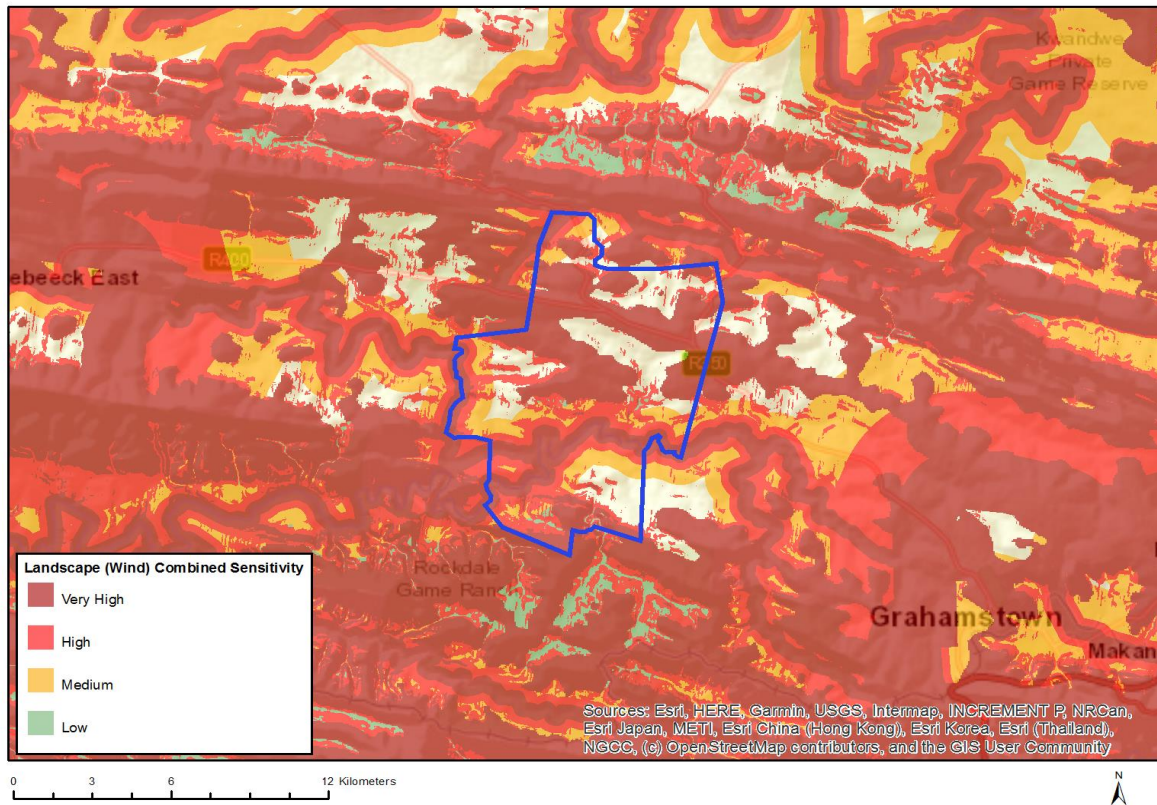


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

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

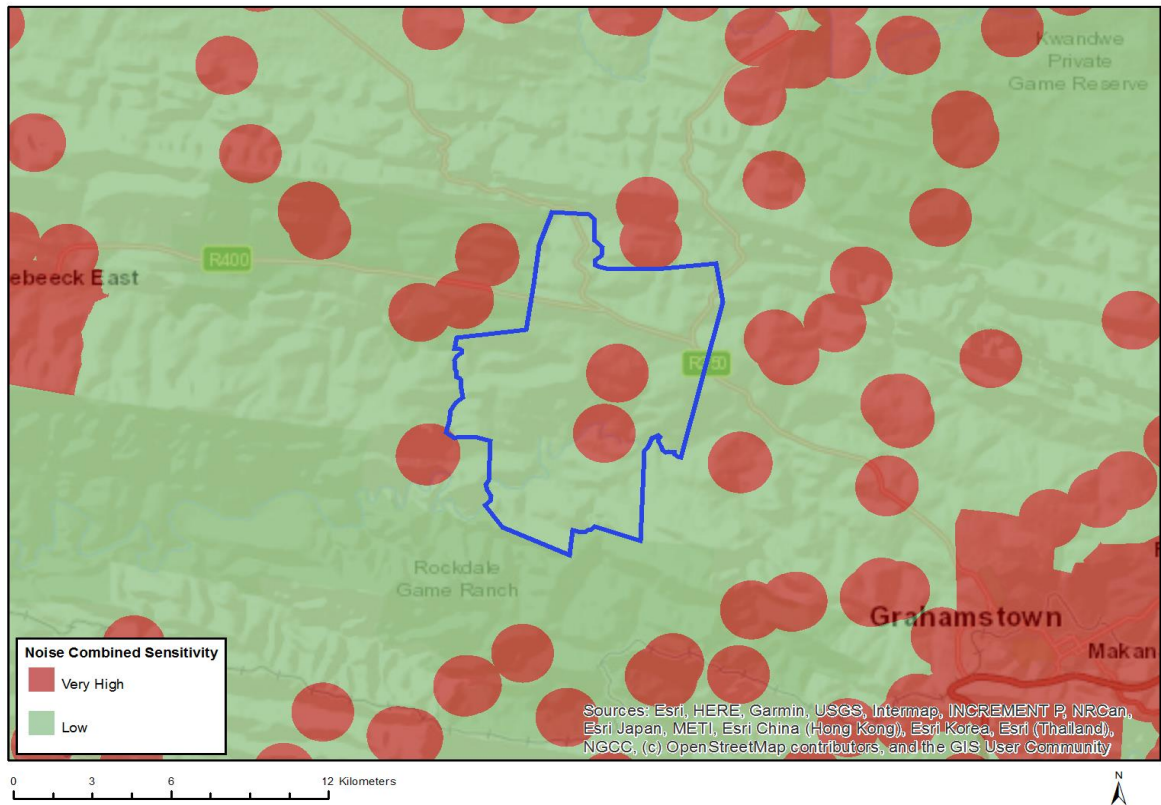


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
High	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

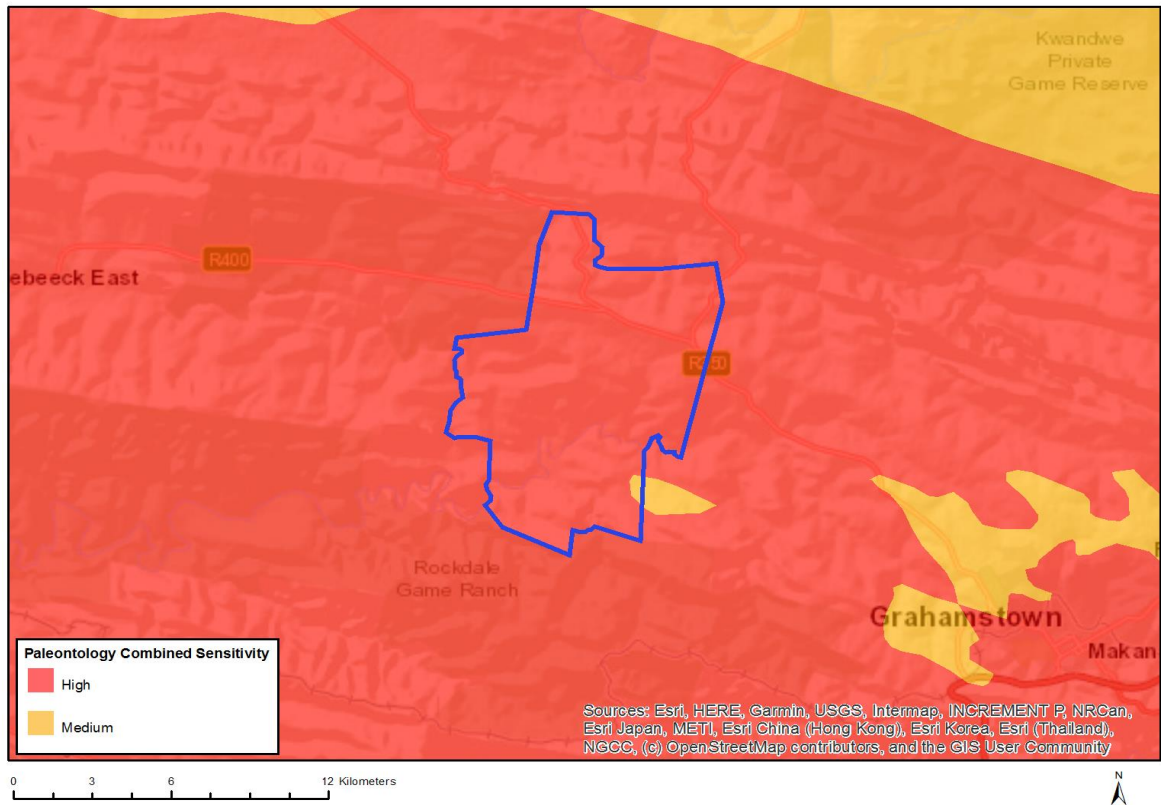


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

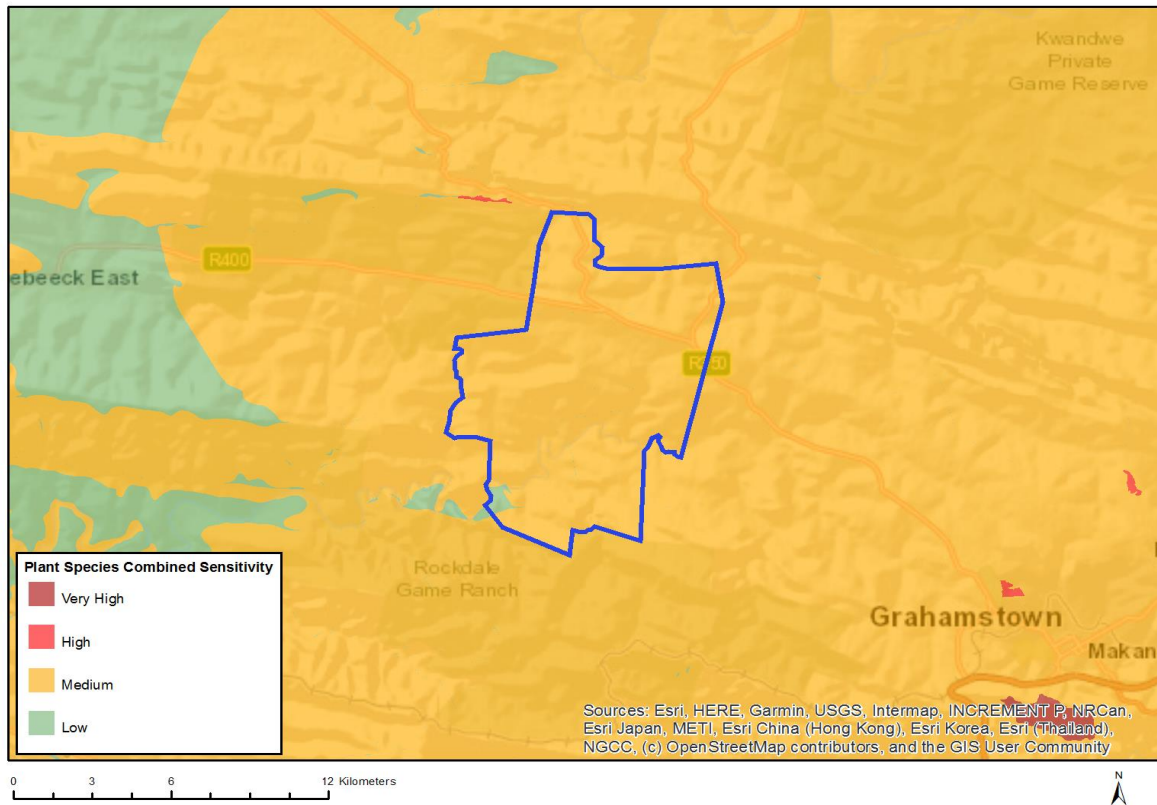


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

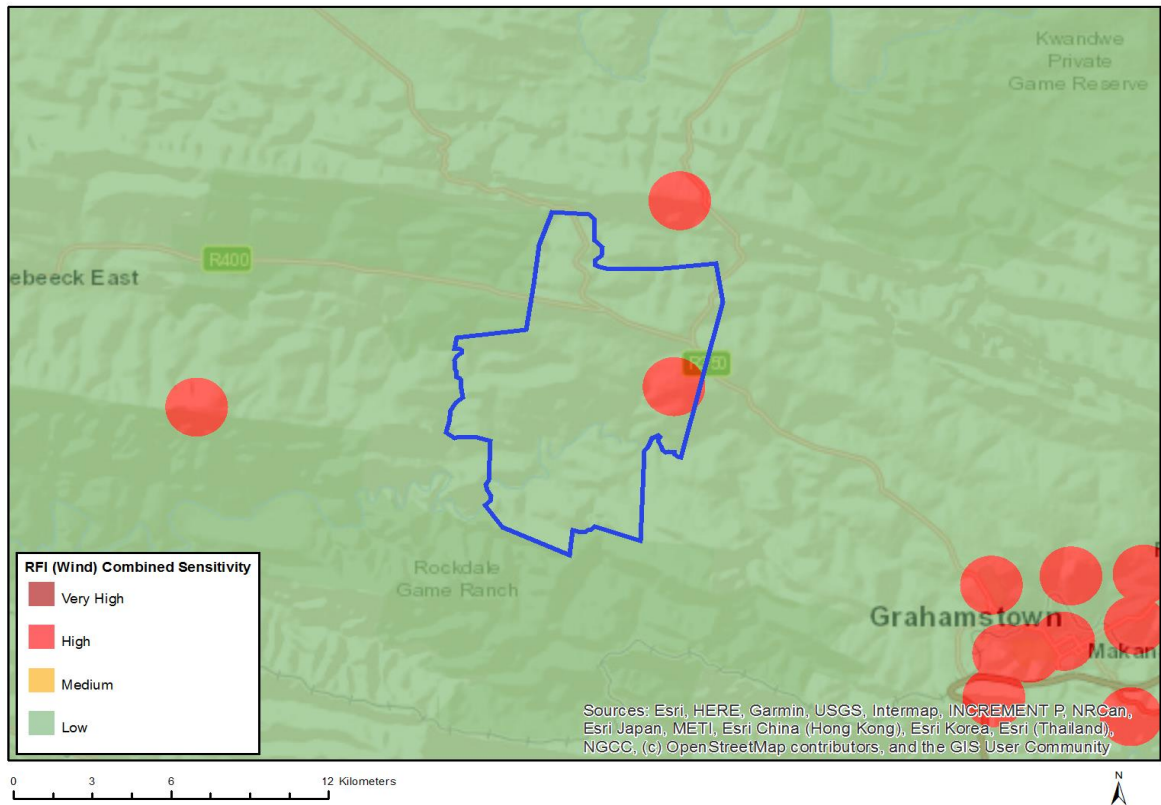


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Medium	Syringodea flanaganii
Medium	Sensitive species 491
Medium	Sensitive species 348
Medium	Isoetes wormaldii
Medium	Sensitive species 123
Medium	Sensitive species 294
Medium	Pterygodium cleistogamum
Medium	Agathosma bicornuta
Medium	Sensitive species 655
Medium	Sensitive species 661
Medium	Searsia albomarginata
Medium	Sensitive species 333

MAP OF RELATIVE RFI (WIND) THEME SENSITIVITY

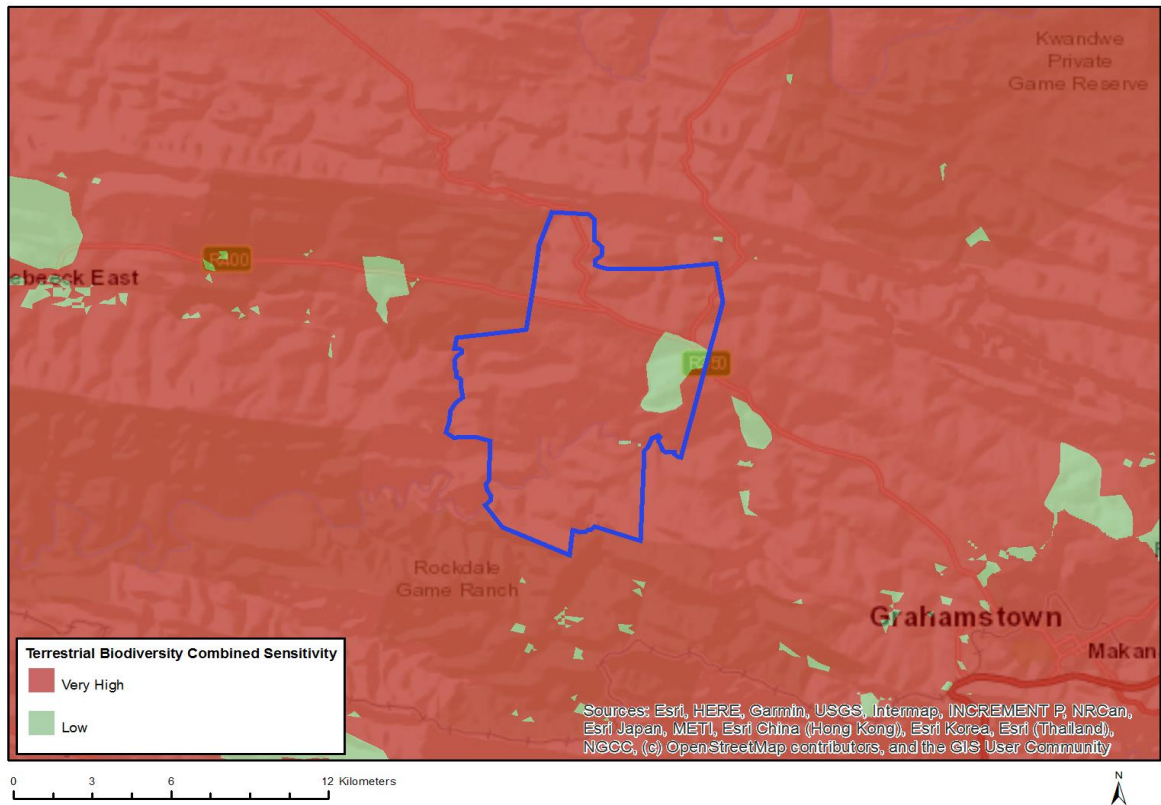


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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
X			

Sensitivity Features:

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