

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

EIA Reference number: 14/12/16/3/3/2/730/2/AM2

Project name: The proposed addition of Synchronous Condensers to the Kuroson substation

Project title: The proposed addition of synchronous condensers to the existing Kuroson substation on Portion 8 of Farm Uitzicht No.3 within the Umsobomvu Local Municipality, Pixley Ka Seme District Municipality in the Northern Cape Province

Date screening report generated: 22/10/2025 10:49:51

Applicant: National Transmission Company South Africa

Compiler: QEMS Management and Business Solutions

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Application Category: Utilities Infrastructure|Electricity|Distribution and
Transmission|Substation

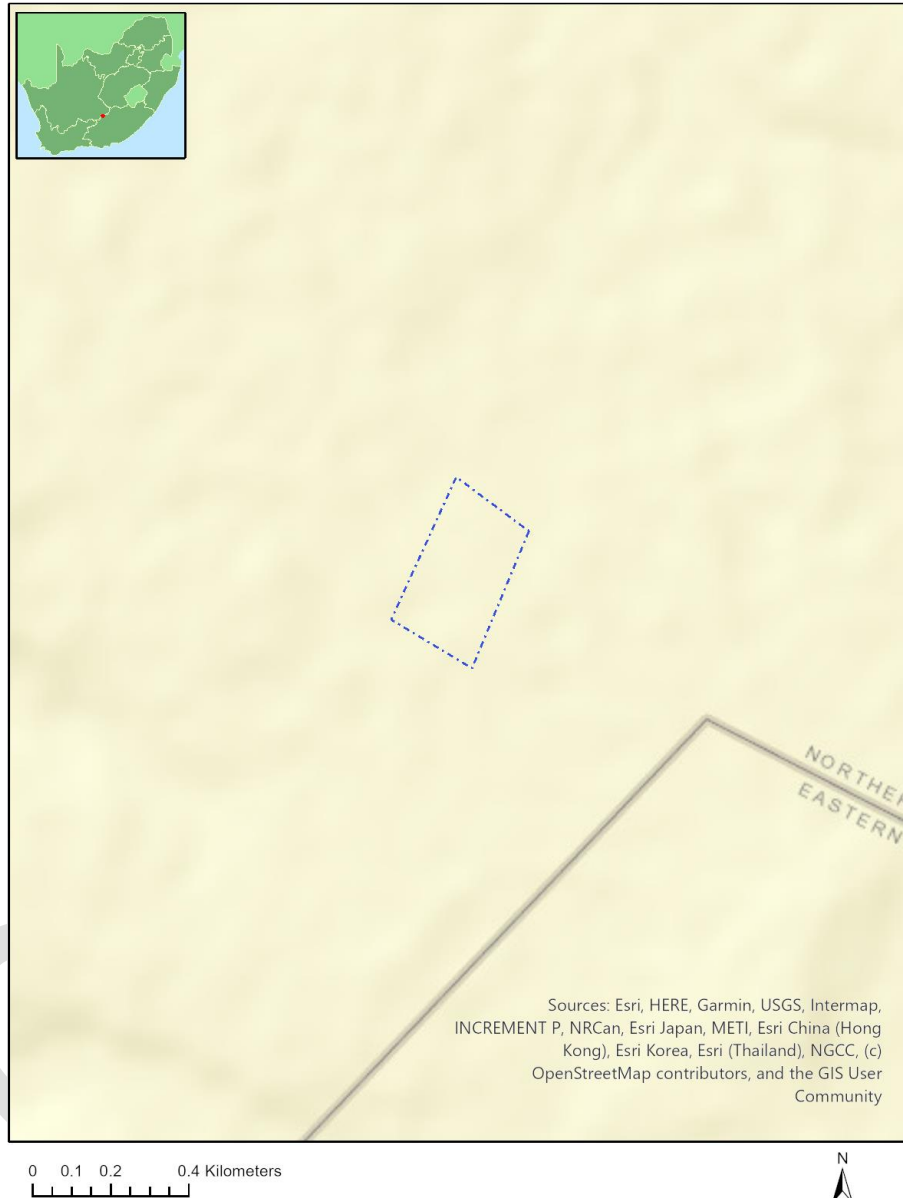
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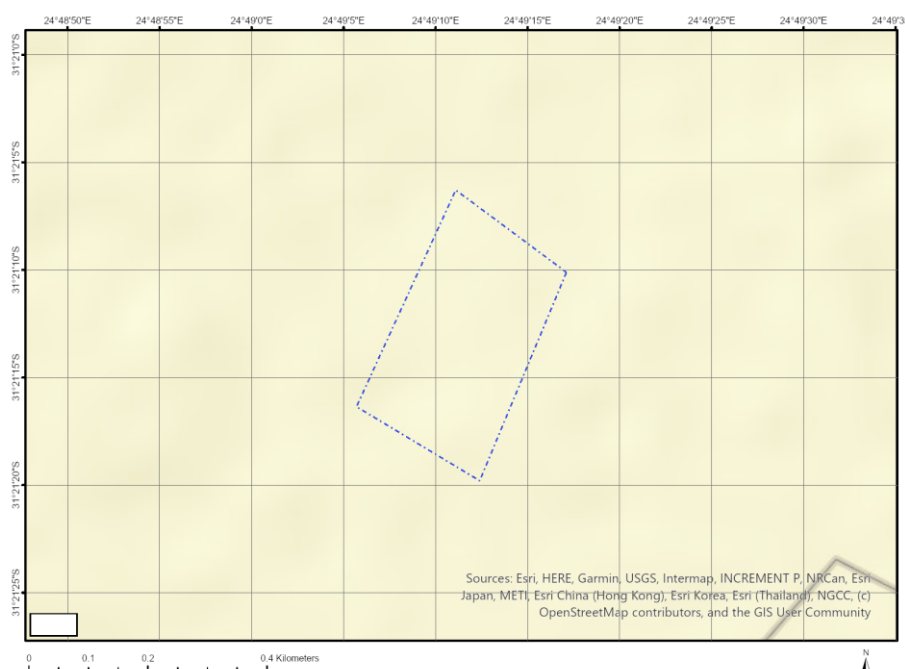
Proposed Project Location

Orientation map 1: General location

General Orientation: The proposed addition of Synchronous Condensers to the Kuroson substation



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		3	0	31°23'0.48S	24°49'20.9E	Farm
2		3	0	31°20'54.03S	24°48'0.62E	Farm
3		3	8	31°21'43.75S	24°48'56.48E	Farm Portion
4		3	8	31°21'45.73S	24°48'55.33E	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	14/12/16/3/3/2/1028	Wind	Approved	15
2	14/12/16/3/3/1/729	Solar PV	Approved	26.3
3	14/12/16/3/3/1/1730/AM1	Solar PV	Approved	28.2
4	12/12/20/2319	Wind	Approved	27.2

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.

5	14/12/16/3/3/2/1136	Solar PV	Approved	14
6	14/12/16/3/3/2/944	Solar PV	Approved	24
7	14/12/16/3/3/2/1028/AM1	Wind	Approved	15
8	14/12/16/3/3/1/2076	Wind	Approved	4.3
9	12/12/20/2653/AM4	Solar PV	Approved	24.3
10	14/12/16/3/3/2/355	Solar PV	Approved	11.8
11	12/12/20/1651	Wind	Approved	28.5
12	12/12/20/1651/A2	Wind	Approved	28.5
13	14/12/16/3/3/1/553	Solar PV	Approved	27.4
14	14/12/16/3/3/1/553/AM2	Solar PV	Approved	27.4
15	14/12/16/3/3/1/2487	Wind	Approved	0
16	14/12/16/3/3/2/1029/1/AM1	Wind	Approved	18.8
17	12/12/20/2654	Solar PV	Approved	24
18	12/12/20/2654/AM4	Solar PV	Approved	24
19	14/12/16/3/3/2/730/AM1	Solar PV	Approved	0
20	14/12/16/3/3/1/735/AM2	Solar PV	Approved	25.4
21	14/12/16/3/3/2/1029/1	Wind	Approved	22.5
22	14/12/16/3/3/2/355/AM1	Solar PV	Approved	12
23	14/12/16/3/3/1/528/AM2	Solar PV	Approved	11.8
24	14/12/16/3/3/2/1134	Solar PV	Approved	5.2
25	14/12/16/3/3/1/735	Solar PV	Approved	25.4
26	14/12/16/3/3/2/730	Wind	Approved	0
27	14/12/16/3/3/1/730/AM2	Solar PV	Approved	28.2
28	14/12/16/3/3/2/1135	Solar PV	Approved	7.4
29	14/12/16/3/3/1/730/AM1	Solar PV	Approved	28.2
30	12/12/20/2653	Solar PV	Approved	24.3
31	14/12/16/3/3/1/735/AM1	Solar PV	Approved	25.4
32	14/12/16/3/3/1/730	Solar PV	Approved	28.2
33	14/12/16/3/3/1/2132	Solar PV	Approved	0
34	12/12/20/1651/AM4	Wind	Approved	22.5
35	14/12/16/3/3/1/729/AM1	Solar PV	Approved	26.3
36	12/12/20/2465/2	Solar PV	Approved	14.3
37	14/12/16/3/3/2/1029	Wind	Approved	12

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 | Distribution and Transmission | Substation.

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
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Main Electricity Distribution Substation	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Distribution_Transmission.pdf
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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
Civil Aviation Theme				X
Defence Theme				X
Paleontology Theme	X			
Plant Species 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.

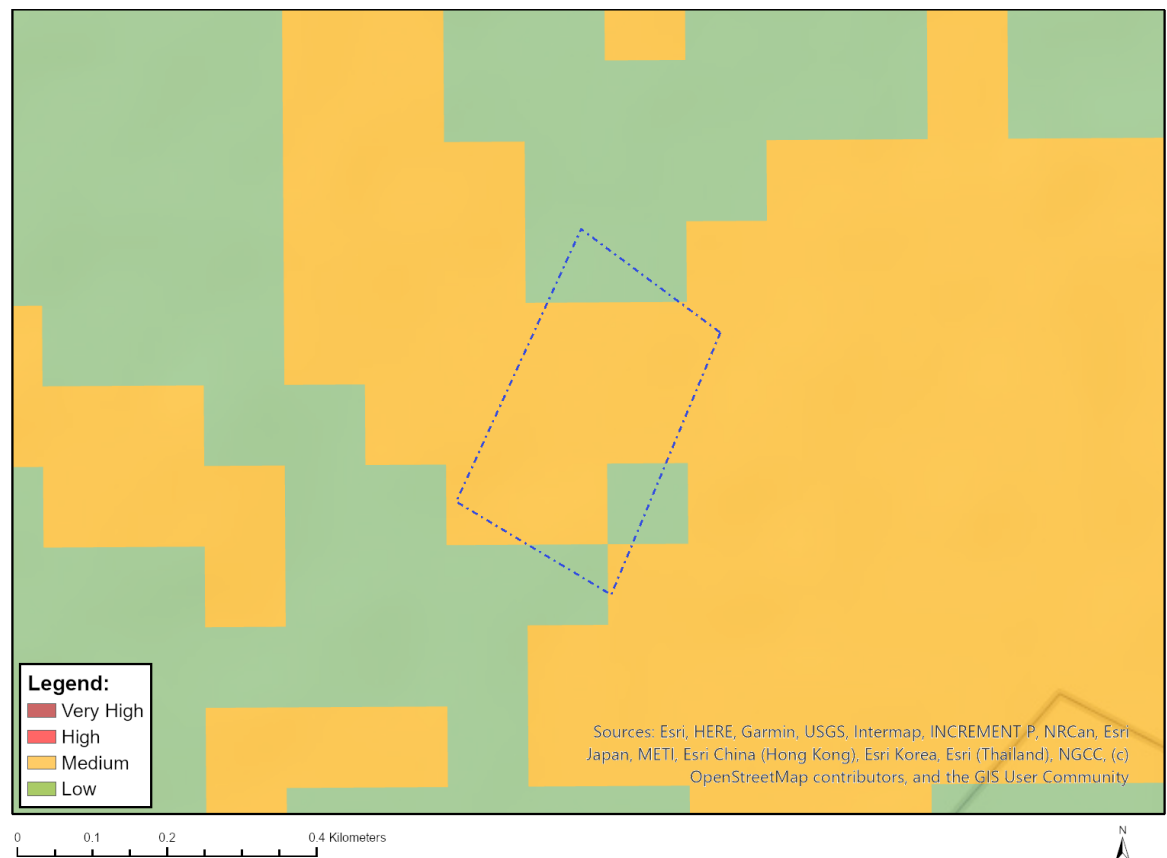
No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/GuidanceforHIA.pdf
3	Palaeontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/GuidanceforPIA.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
7	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf

		ssmentProtocols/Gazetted Plant Species Assessment Protocols.pdf
8	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	05. Low
Medium	06. Low-Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



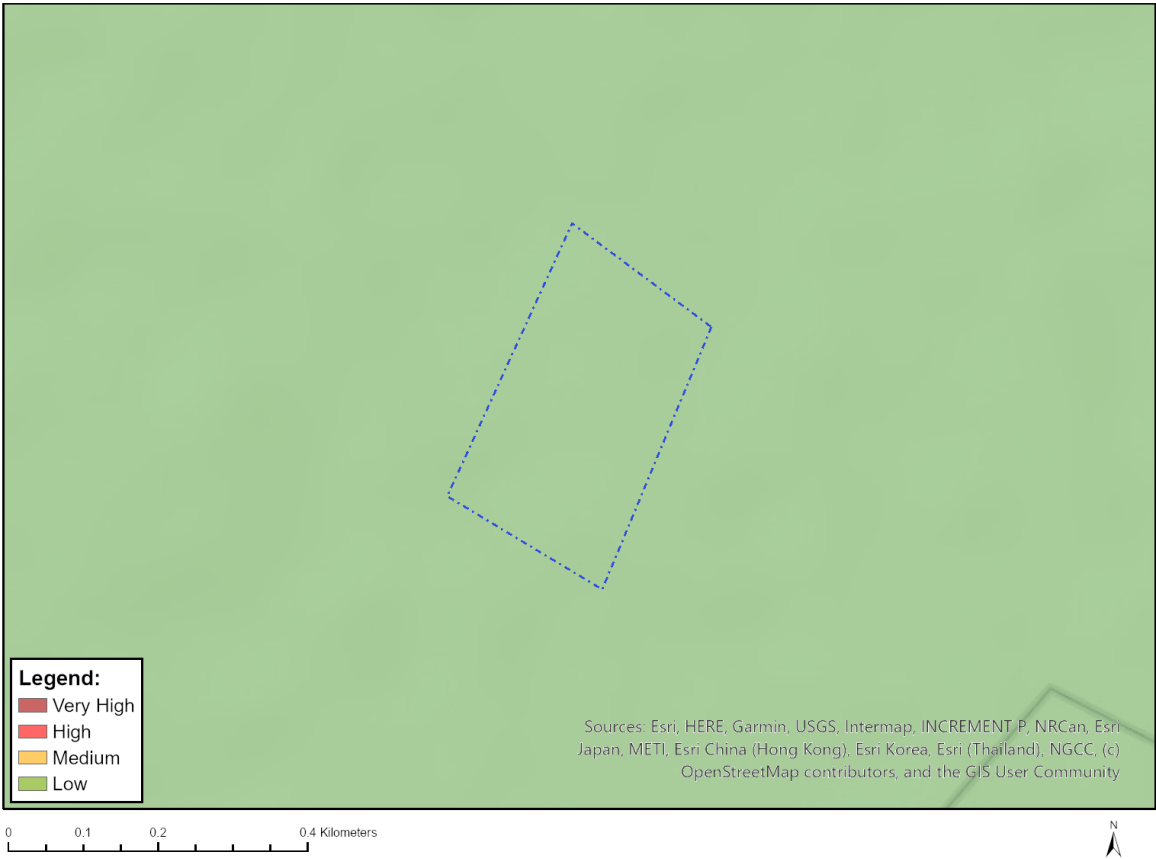
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their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

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

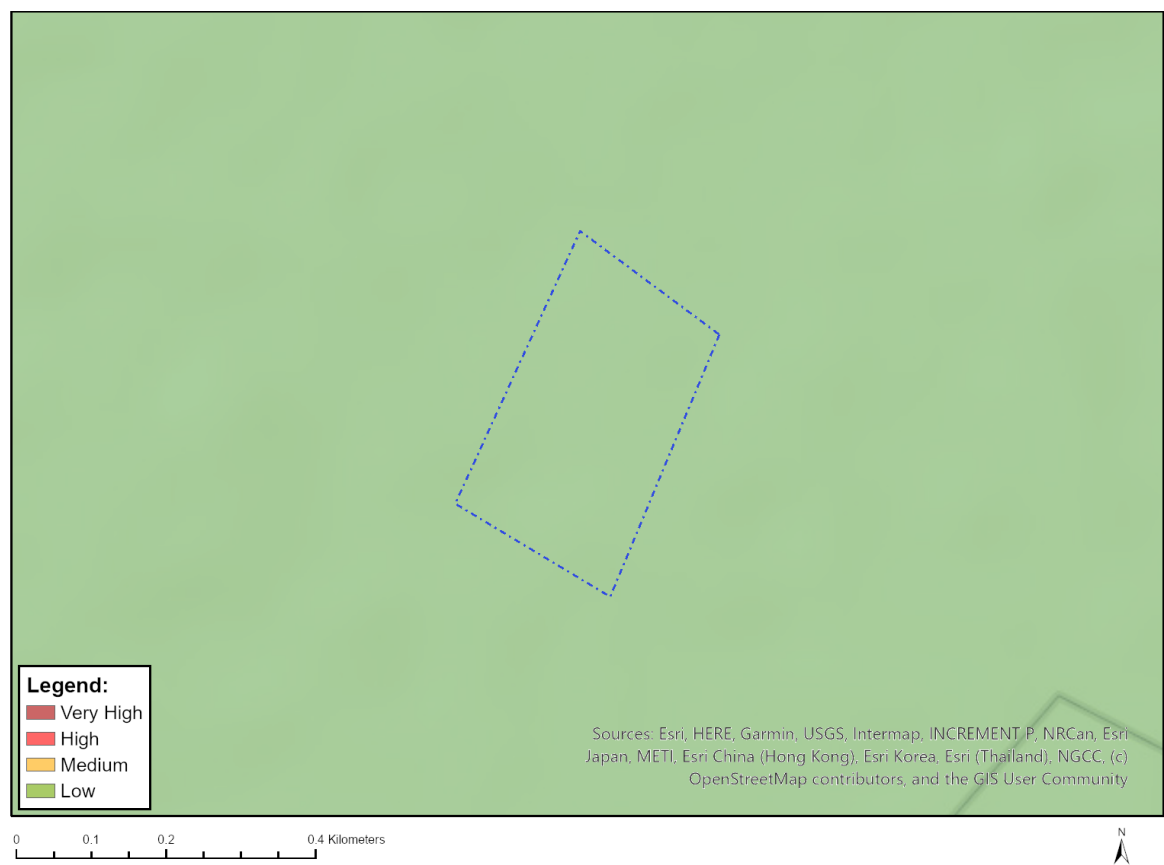


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

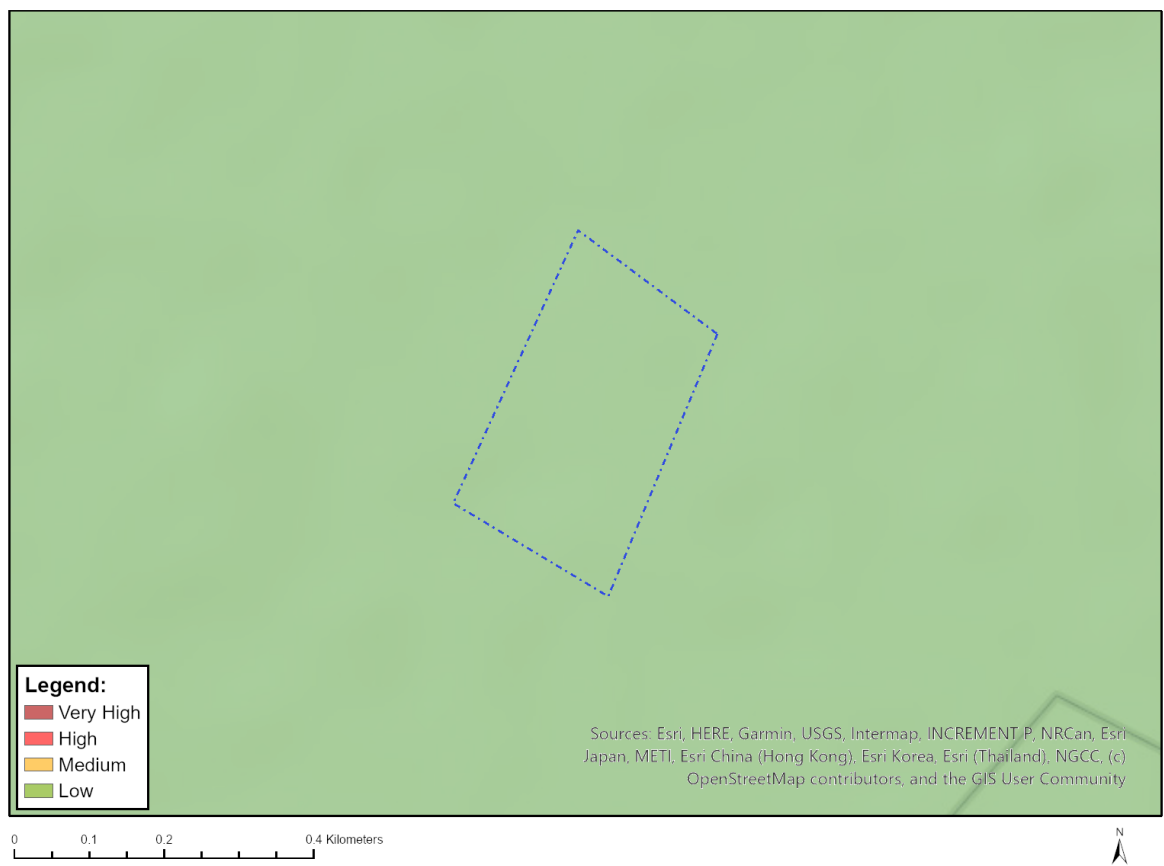


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

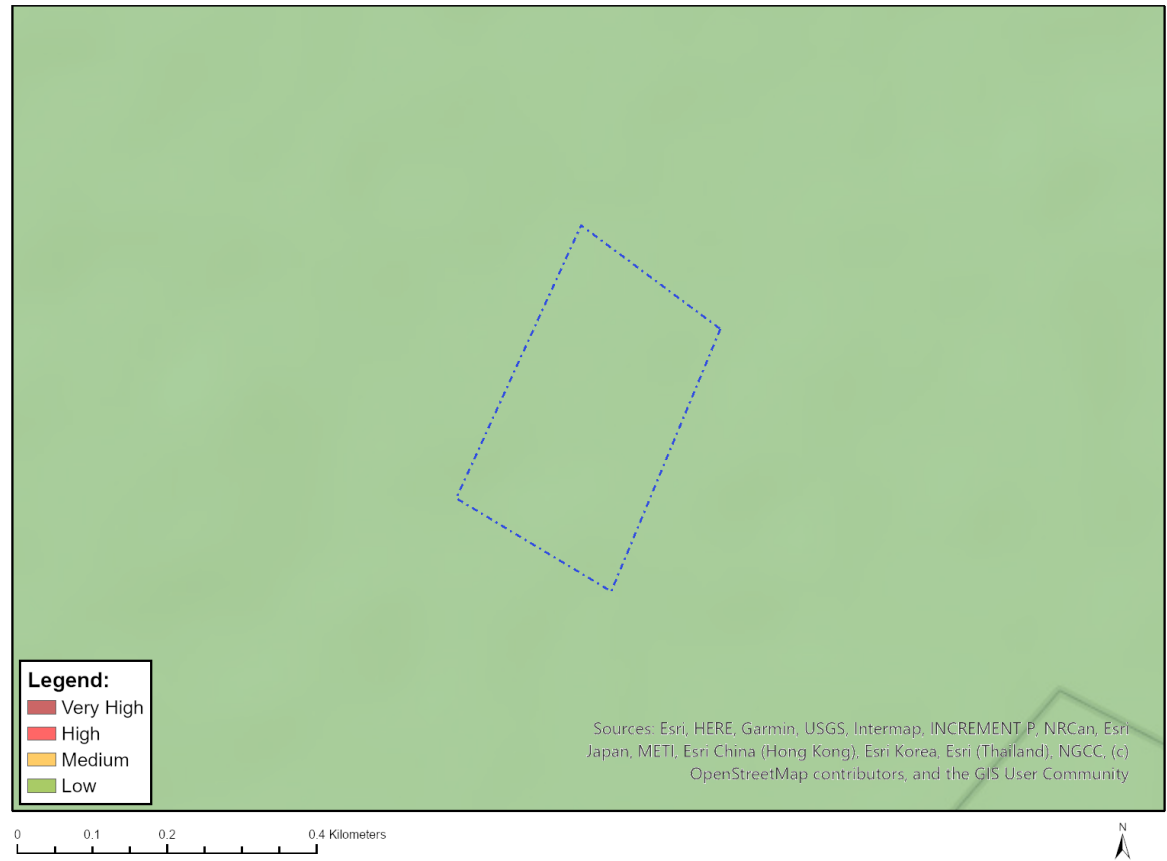


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE DEFENCE THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

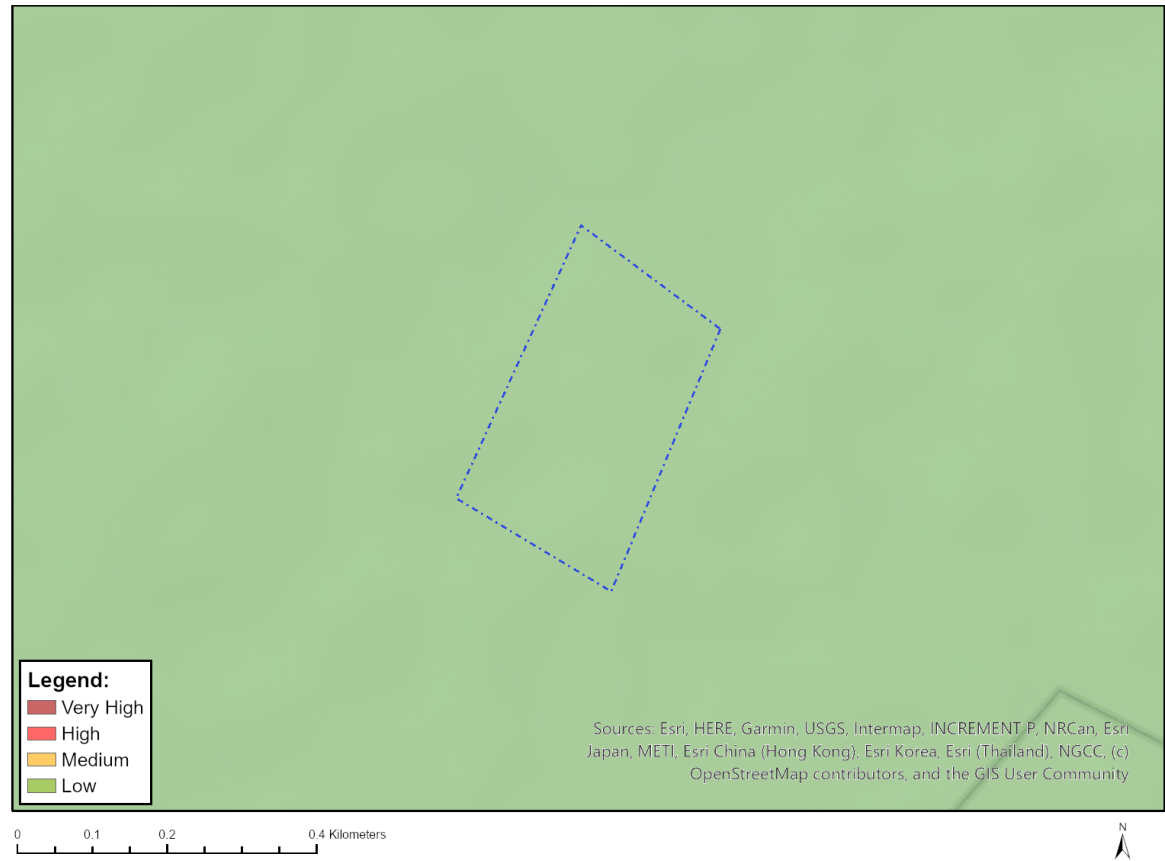


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



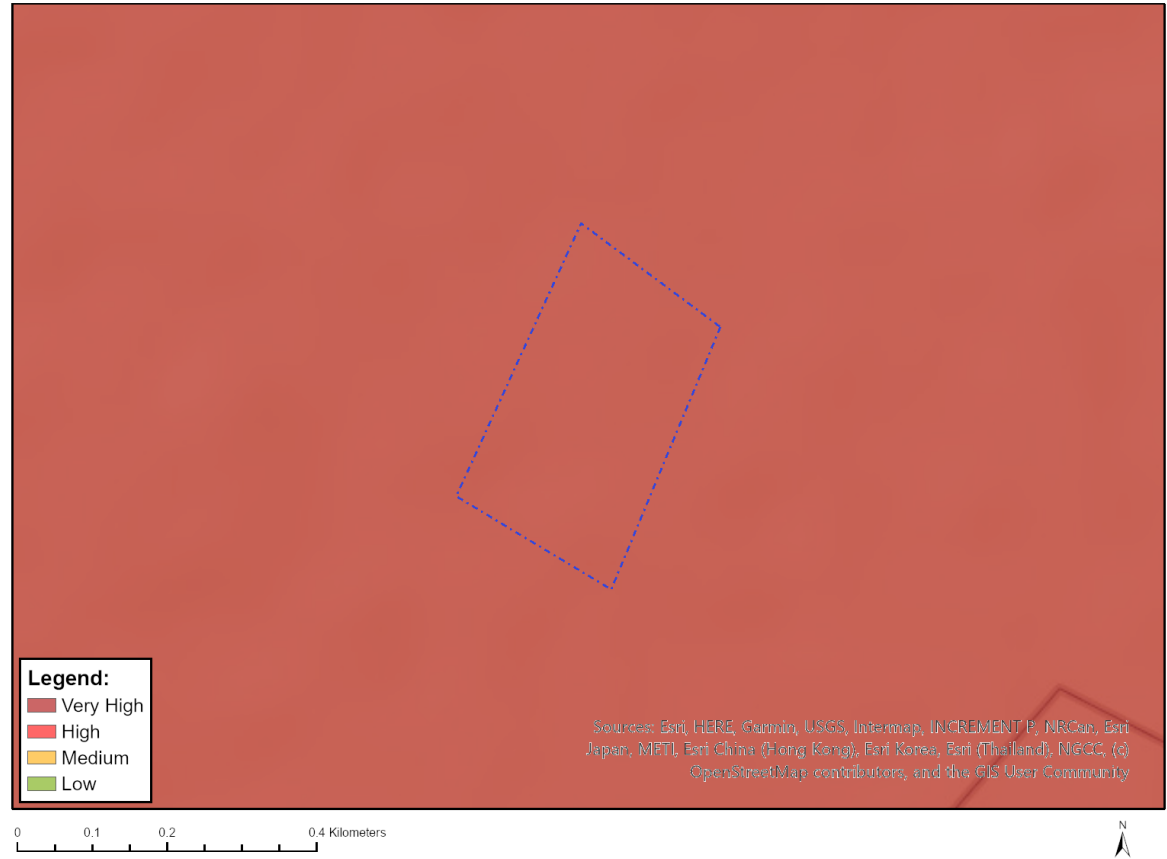
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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

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	National Protected Area Expansion Strategy (NPAES)