



5 October 2023  
581877

Assistant Director

Department of Forestry, Fisheries and the Environment: Integrated Environmental Authorisation  
Cnr. Steve Biko and Soutpansberg Road  
473 Steve Biko, Arcadia,  
Pretoria, 8000

**Attention: Mohammad Essop**

Dear Mohammed

**Environmental Authorisation for the Basic Assessment for the Stilfontein Photovoltaic Facilities Cluster and Associated Infrastructure, North West Province: Site Sensitivity Verification Report for Shrike Grid**

## 1. Introduction

South Africa Mainstream Renewable Power (Pty) Ltd (Mainstream) propose to construct up to nine Photovoltaic (PV) facilities (or “projects”) and associated infrastructure for the Stilfontein PV Cluster. The Stilfontein Cluster is located ~20 km south-west of Potchefstroom and ~6 km north-east of Stilfontein, in the in the City of Matlosana and JB Marks Local Municipalities and Dr Kenneth Kaunda District Municipality (DKKDM) in North West Province (Figure 1-1). The Stilfontein Cluster lies within the Klerksdorp Renewable Energy Development Zone (REDZ).

A Basic Assessment (BA) process in terms of the National Environmental Management Act 107 of 1998, as amended (NEMA) and the EIA Regulations, 2014, as amended, is required to support an application for EA for the project(s). SRK Consulting (South Africa) (Pty) Ltd (SRK) was appointed by Mainstream to undertake the BA processes for each project in the Stilfontein PV Cluster.

**Partners** R Armstrong, P Aucamp, JS Bartels, CM Bauman, N Brien, LSE Coetser, CD Dalglish, IT Doku, BM Engelsman, R Gardiner, M Hinsch, SG Jones, W Jordaan, WC Joughin, DA Kilian, F Lake, JA Lake, LM Linzer, NG Macfarlane, V Maharaj, I Mahomed, JI Mainama, HAC Meintjes, MJ Morris, DH Mossop, GP Nel, RD O'Brien, VS Reddy, PJ Shepherd, T Shepherd, MJ Sim, JS Stiff, M van Huyssteen, AT van Zyl, MD Wanless, ML Wertz

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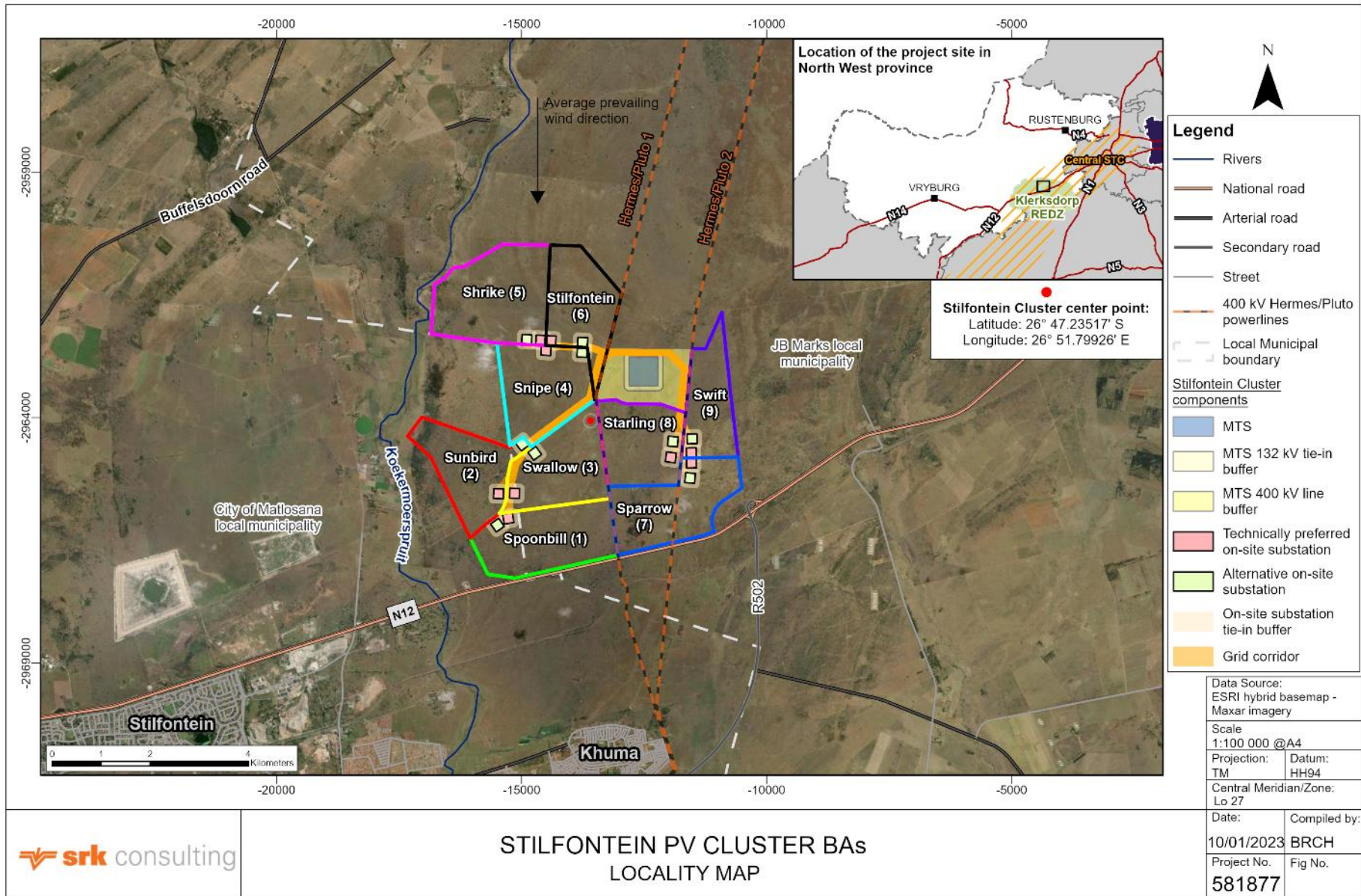
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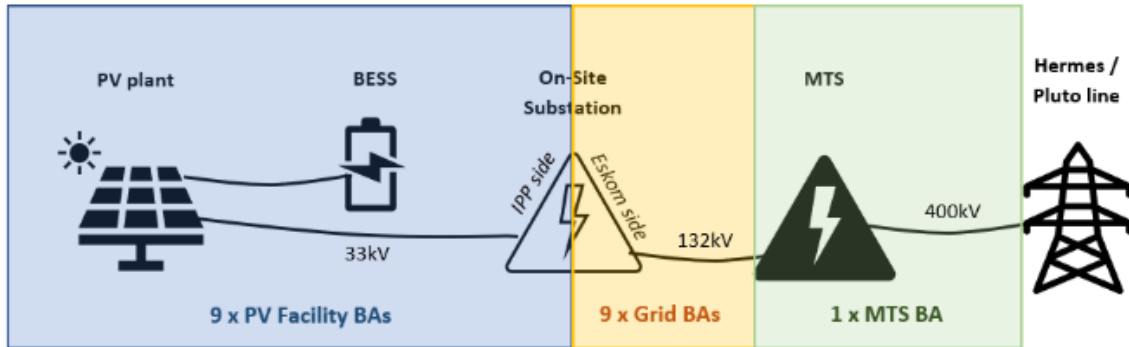
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Revision: A Date: 14 02 2023

**Figure 1-1: Locality Map**

Separate EAs are to be applied for the individual projects in the Stilfontein Cluster (as well as the associated grid connections):

- 9 x PV facilities, including 11-33 kV transmission lines, each including Battery Energy Storage Systems (BESS), and 9 x Independent Power Producer (IPP)-side on-site substations;
- 9 x Eskom-side on-site substations and 132 kV transmission lines to the Main Transmission Station (MTS); and
- 1 x MTS and 400 kV lines to existing Hermes Pluto transmission lines.



**Figure 1-2: Components included in the individual BA processes for the Stilfontein Cluster**

In terms of Regulation 16(1)(b)(v) of the NEMA EIA Regulation, 2014, an application for EA must include “the report generated by the national web based environmental screening tool”, and on 5 July 2019, notice was given that that the submission of such a report would be compulsory after 90 days of publication of this notice (i.e. by 4 October 2019 – GN R 960). As such, the national web based environmental screening report is hereby appended for the Shrike Grid application.

## 2. Site Sensitivity Verification

The DFFE have advised that it is the responsibility of the Environmental Assessment Practitioner (EAP) to confirm whether these specialist studies will be conducted or provide a motivation as to why the specialist studies will not be conducted as part of the BA processes. SRK’s opinion in this regard (as presented below) and the proposed specialist studies were discussed and agreed on during the Pre-Application Meeting held on 1 March 2022.

This site sensitivity verification report relates specifically to Shrike Grid project.

All specialists, except the Socio-Economic Specialist, conducted site visits in February 2022, and confirmed that it was the appropriate time and season to undertake a site visit to adequately verify the site sensitivity.



**Figure 2-1: Photograph of the Stilfontein Cluster from the N12 highway**

## 2.1 Site Sensitivity Verification

An indication of which specialist studies are to be undertaken and a motivation as to why certain specialist studies will not be undertaken, based on site verification, is provided in Table 2-1 below.

**Table 2-1: Site sensitivity verification of the Shrike Grid**

Studies Required in Terms of the Screening Tool	Screening Sensitivity	Sensitivity Verification <sup>1</sup>	Reference / Motivation as to why not conducted
<b>Agricultural Impact Assessment</b>	High	Very Low	A soil and land capability study has been undertaken and identified that the agricultural sensitivity of the site is Very Low due to soil, slope, temperatures or rainfall. Non-arable land.
<b>Landscape (solar) Impact Assessment</b>	N/A	High	A Visual Impact Assessment has been undertaken and identified that the site is rated as High landscape (solar) sensitivity due to the proximity of residential areas and receptors, rural nature of the project area and the vast project area.
<b>Archaeological and Cultural Heritage Impact Assessment</b>	Very High	Low	The site is rated as Very High heritage sensitivity because it is located within 2 km of a Grade II heritage site and of very high paleontological sensitivity. A combined heritage study will be undertaken to address the archaeological and paleontological impact of the development.
<b>Paleontology Impact Assessment</b>	Very High		
<b>Aquatic Biodiversity Impact Assessment</b>	Low	Very Low	The project site does not overlap with any areas classified as Aquatic Critical Biodiversity Areas (CBA). However, an Aquatic Biodiversity Impact Assessment report, nevertheless has been compiled confirming this.
<b>Terrestrial Biodiversity Impact Assessment</b>	Very High	High	The project site contains a habitat type that has medium conservation importance and high functional integrity. Therefore the specialist confirmed that the terrestrial biodiversity sensitivity is High.
<b>Plant Species Assessment</b>	Medium	Medium	While no SCC was identified on the site, the intact habitat may support the expected SCC.
<b>Animal Species Assessment</b>	Medium	Medium	While no SCC was identified on the site, the intact habitat may support the expected SCC.
<b>Avian Assessment</b>	N/A	Medium	Due to the proximity of the infrastructure to a Vulture roost on the existing Hermes – Pluto 400kV 2 overhead powerline.
<b>Geotechnical Assessment</b>	N/A	N/A	The proponent will obtain geotechnical input for the design of the facility.
<b>Socio-Economic Assessment</b>	N/A	N/A	The development and operation of the facility may result in an increase in revenue and / or jobs and may have regional economic benefits. As such, SRK considers it necessary to conduct a Socio-Economic Impact Assessment.
<b>Civil Aviation Assessment</b>	Low	Insignificant	No major or other types of civil aviation aerodromes are located near the Stilfontein Cluster, therefore it is anticipated that impacts to civil aviation will be insignificant. Comments from relevant authorities, e.g. the SACAA, will be sought through the stakeholder engagement process.
<b>Defence Assessment</b>	Low	Insignificant	It is anticipated that impacts to defense will be insignificant. Comment from relevant authorities will be sought through the stakeholder engagement process.

<sup>1</sup> An EAP or specialist is only required to confirm the sites sensitivity (by means of “site sensitivity verification”) for themes for which a Protocol exists, in accordance with the requirements set out in the relevant Protocol. Where N/A is indicated, there is no Protocol and therefore “site sensitivity verification” has not been provided, rather a motivation as to why no specialist study is required.

Studies Required in Terms of the Screening Tool	Screening Sensitivity	Sensitivity Verification <sup>1</sup>	Reference / Motivation as to why not conducted
Radio Frequency Interference (RFI)	N/A	Insignificant	It is anticipated that impacts to civil aviation will be insignificant. However, comment from relevant authorities will be sought through the stakeholder engagement process.

### 3. Proposed Specialist Studies

To summarise, SRK has undertaken the following specialist studies to inform this project:

- Biodiversity Impact Assessment (including terrestrial and aquatic ecology);
- Soil and Land Capability Assessment;
- Socio-Economic Assessment;
- Heritage Assessment (including archaeology and palaeontology); and
- Visual Impact Assessment.

Yours faithfully,

#### SRK Consulting (South Africa) (Pty) Ltd

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 581877/45202/Report  
 3953-7372-305-STEY-05/10/2013  
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Kate Steyn

Principal Environmental Consultant

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

**EIA Reference number:** TBC

**Project name:** Stilfontein Cluster PV

**Project title:** Eskom-side of the Shrike on-site substation and 132kV transmission line to Main Transmission Substation (MTS), Stilfontein, North West Province, South Africa

**Date screening report generated:** 17/03/2023 08:58:30

**Applicant:** Mainstream Renewable Power South Africa (Pty) Ltd

**Compiler:** SRK Consulting (South Africa) (Pty) Ltd

**Compiler signature:**

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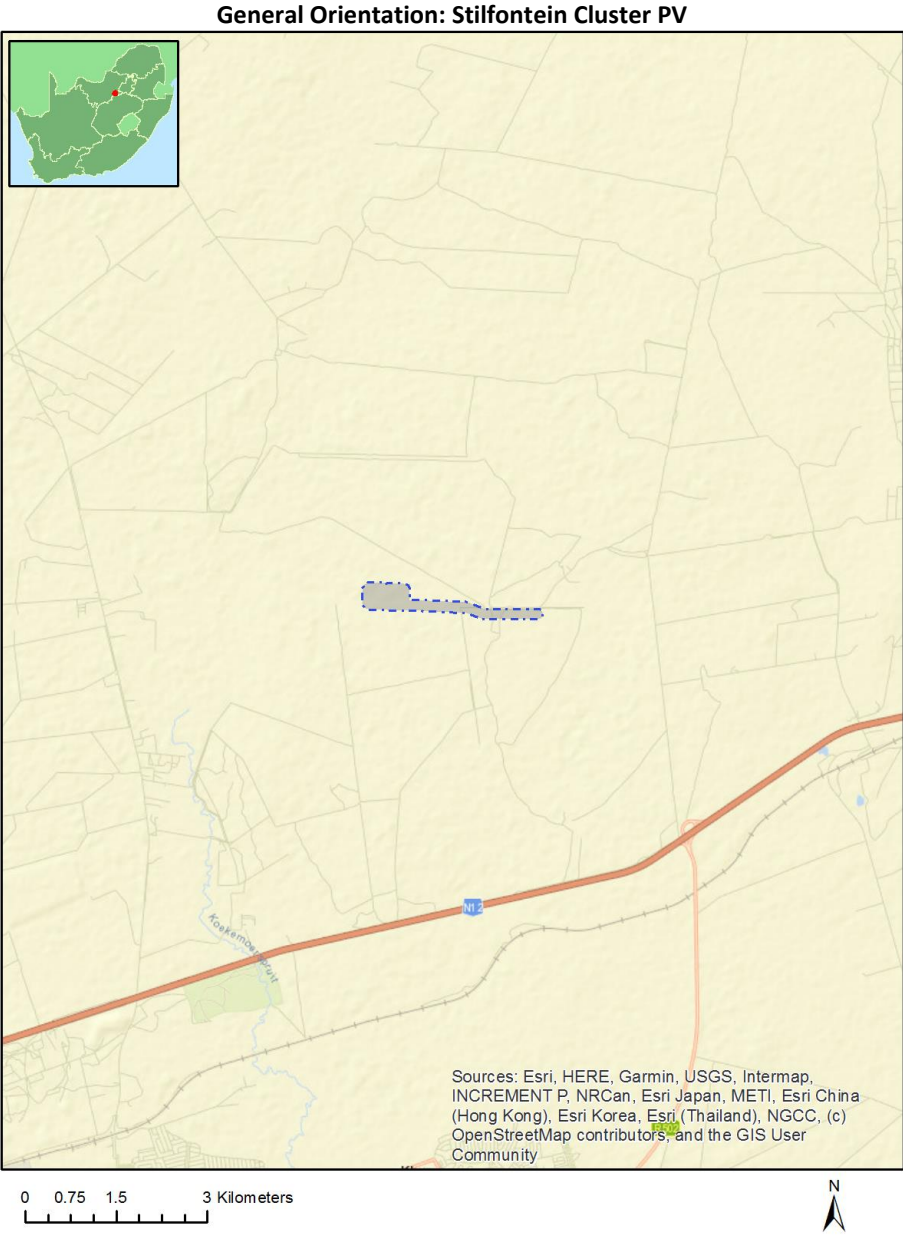
**Application Category:** Utilities Infrastructure|Electricity|Distribution and Transmission|Powerline

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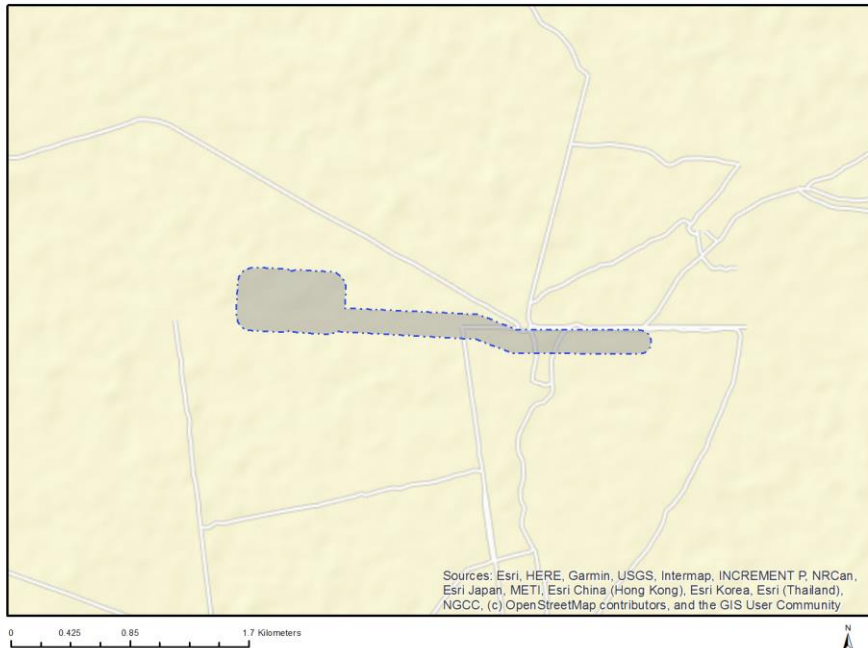
# Proposed Project Location

## 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	RIETFontein	388	0	26°44'30.12S	26°49'25.48E	Farm
2	DOORNPLAAT	410	0	26°47'43.21S	26°52'17.45E	Farm
3	RIETFontein	388	0	26°45'59.37S	26°50'11.42E	Farm Portion
4	DOORNPLAAT	410	3	26°47'30.16S	26°52'38.14E	Farm Portion
5	DOORNPLAAT	410	4	26°47'34.98S	26°51'30.29E	Farm Portion

Development footprint<sup>1</sup> vertices:

Footprint	Latitude	Longitude
1	26°46'13.71S	26°50'56.52E
1	26°46'13.61S	26°50'57.3E
1	26°46'13.97S	26°51'5.21E
1	26°46'14.22S	26°51'6.04E
1	26°46'14.34S	26°51'6.46E
1	26°46'14.19S	26°51'6.84E
1	26°46'14.08S	26°51'7.36E
1	26°46'14.08S	26°51'7.41E
1	26°46'14.5S	26°51'15.75E
1	26°46'14.7S	26°51'16.65E
1	26°46'15.02S	26°51'17.1E

<sup>1</sup> “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.

1	26°46'15.39S	26°51'17.66E
1	26°46'15.92S	26°51'18.08E
1	26°46'16.52S	26°51'18.48E
1	26°46'17.32S	26°51'18.78E
1	26°46'22.03S	26°51'18.48E
1	26°46'23.42S	26°51'49.6E
1	26°46'26.4S	26°51'58.15E
1	26°46'26.58S	26°52'26.95E
1	26°46'26.66S	26°52'27.61E
1	26°46'27.05S	26°52'28.3E
1	26°46'27.42S	26°52'28.8E
1	26°46'28.16S	26°52'29.24E
1	26°46'28.65S	26°52'29.44E
1	26°46'29.18S	26°52'29.38E
1	26°46'29.76S	26°52'29.25E
1	26°46'30.25S	26°52'29.09E
1	26°46'30.69S	26°52'28.72E
1	26°46'31.12S	26°52'28.11E
1	26°46'31.37S	26°52'27.49E
1	26°46'31.41S	26°52'27.15E
1	26°46'31.44S	26°52'26.12E
1	26°46'31.17S	26°51'57.34E
1	26°46'28.3S	26°51'48.75E
1	26°46'26.8S	26°51'16.93E
1	26°46'27.21S	26°51'16.02E
1	26°46'27.42S	26°51'15.29E
1	26°46'26.97S	26°51'6.72E
1	26°46'26.87S	26°51'6.22E
1	26°46'26.65S	26°51'5.76E
1	26°46'26.81S	26°51'5.4E
1	26°46'26.94S	26°51'4.66E
1	26°46'26.59S	26°50'56.7E
1	26°46'26.55S	26°50'56.32E
1	26°46'26.39S	26°50'55.68E
1	26°46'26.2S	26°50'55.28E
1	26°46'25.78S	26°50'54.68E
1	26°46'25.23S	26°50'54.11E
1	26°46'24.68S	26°50'53.75E
1	26°46'23.78S	26°50'53.48E
1	26°46'23.48S	26°50'53.44E
1	26°46'16.29S	26°50'53.87E
1	26°46'15.89S	26°50'54.01E
1	26°46'15.63S	26°50'54.09E
1	26°46'15.37S	26°50'54.23E
1	26°46'14.8S	26°50'54.64E
1	26°46'14.35S	26°50'55.18E
1	26°46'13.99S	26°50'55.77E
1	26°46'13.71S	26°50'56.52E

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	12/12/20/2122	Solar PV	Approved	21.4
2	12/12/20/2513/3	Solar PV	Approved	19.5

3	12/12/20/2629	Solar PV	Approved	21.4
4	14/12/16/3/3/2/778	Solar PV	Approved	11.4
5	12/12/20/2513/1	Solar PV	Approved	19.5
6	12/12/20/2513/2	Solar PV	Approved	25.2
7	12/12/20/2513/1/AM3	Solar PV	Approved	19.5
8	14/12/16/3/3/2/777	Solar PV	Approved	12.8
9	12/12/20/2513/4	Solar PV	Approved	19.5

## 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 footprint as well as the most environmental sensitive features on the footprint based on the footprint sensitivity screening results for the application classification that was selected. The application classification selected for this report is:

**Utilities Infrastructure | Electricity | Distribution and Transmission | Powerline.**

### Relevant development incentives, restrictions, exclusions or prohibitions

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

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-Central corridor	<a href="https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf">https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf</a>
Renewable energy development zones 10-Klerksdorp	<a href="https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_REDZ.pdf">https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_REDZ.pdf</a>

### Proposed Development Area Environmental Sensitivity

The following summary of the development footprint 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 footprint situation.

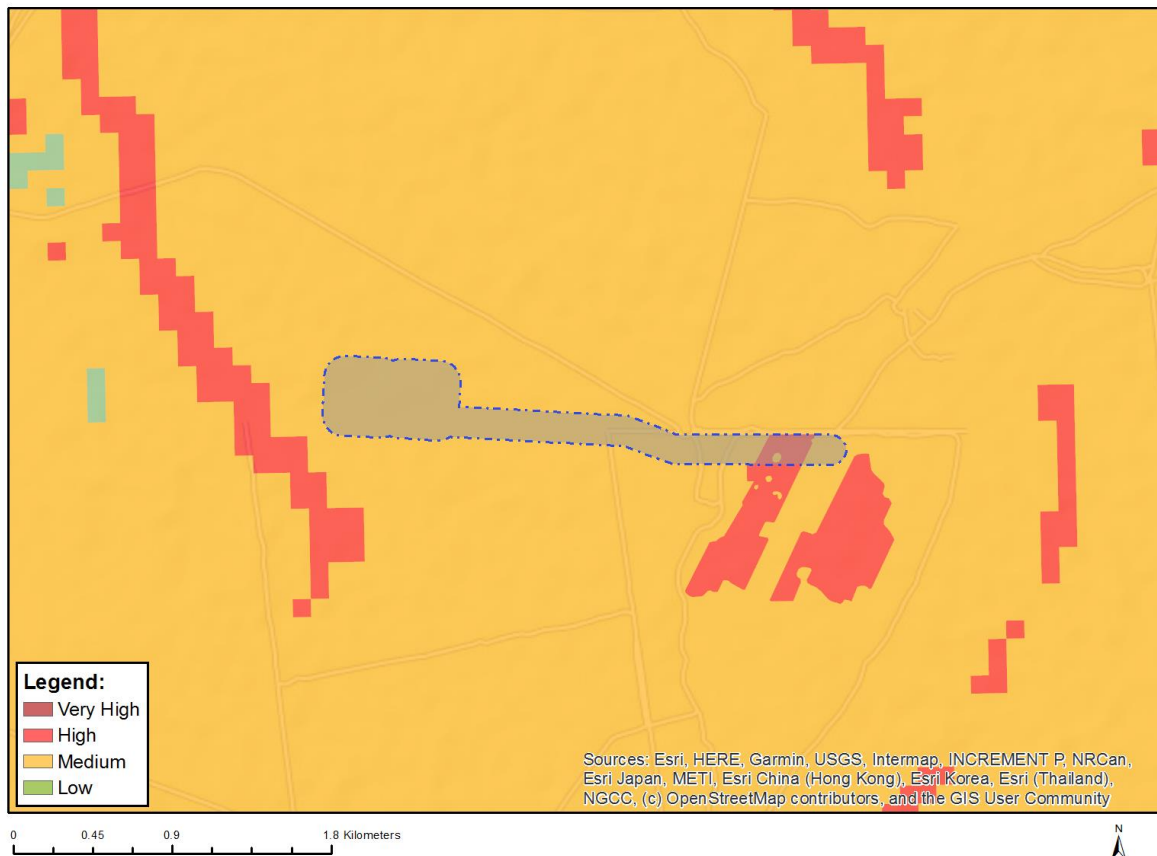
No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf</a>
2	Landscape/Visual Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>
3	Archaeological and Cultural Heritage Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>
4	Palaeontology Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>
5	Terrestrial Biodiversity Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf</a>
6	Aquatic Biodiversity Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf</a>
7	Avian Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Avifauna_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Avifauna_Assessment_Protocols.pdf</a>
8	Civil Aviation Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf</a>
9	RFI Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>
10	Geotechnical Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>
11	Plant Species Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf</a>
12	Animal Species Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf</a>

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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 footprint 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

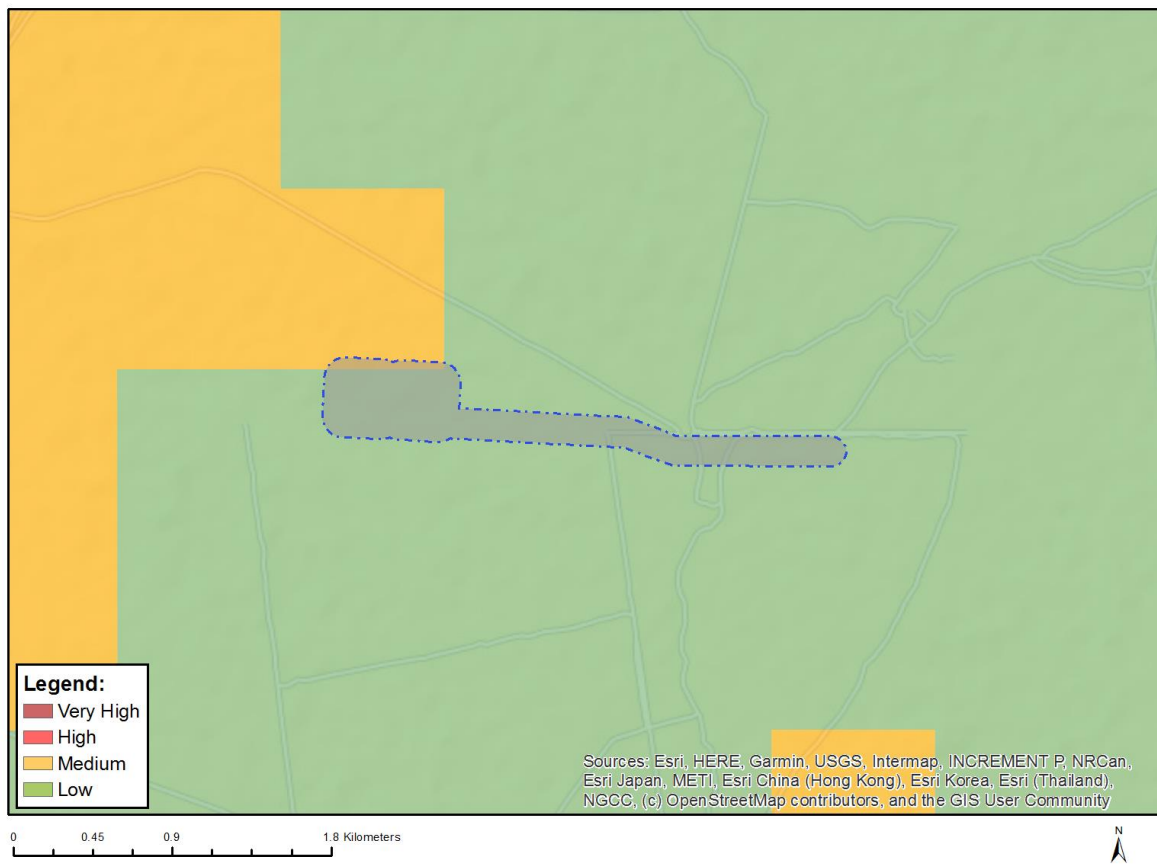


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

#### 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
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

## MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



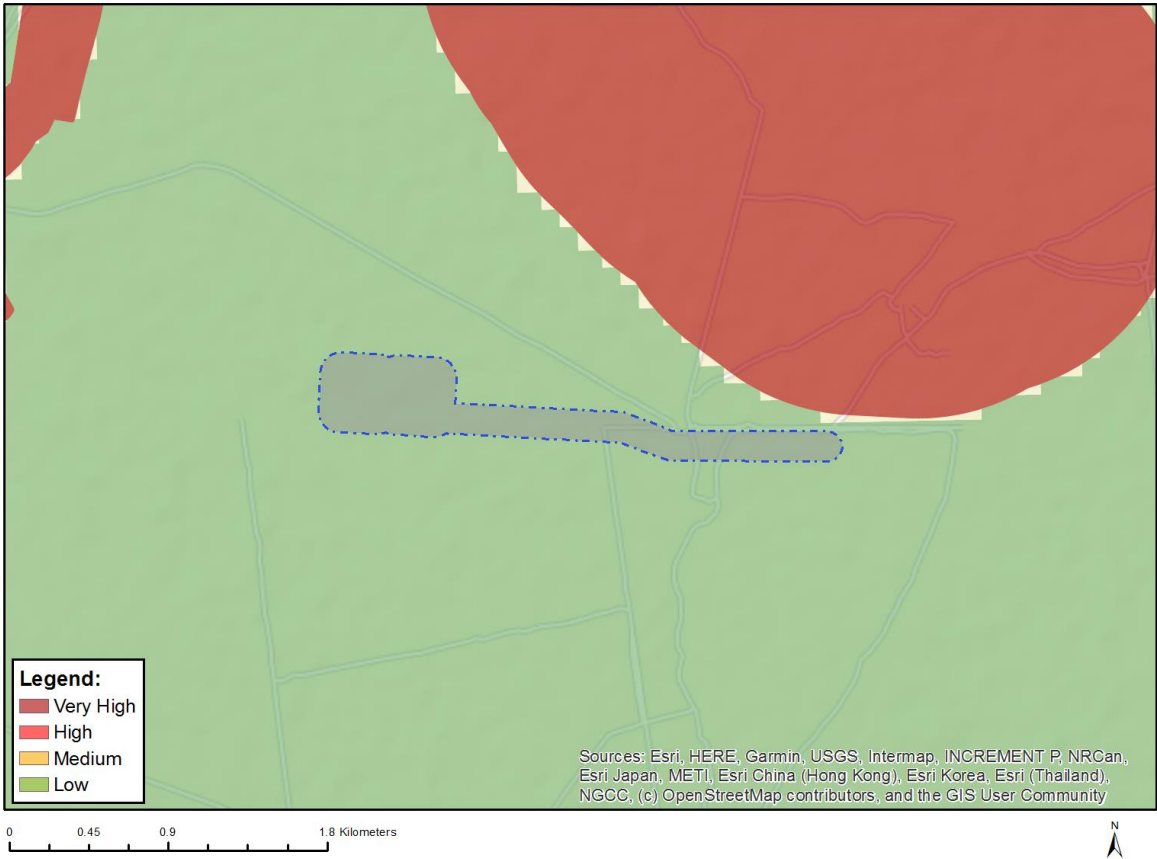
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at [eiadatarequests@sanbi.org.za](mailto:eiadatarequests@sanbi.org.za) 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	Subject to confirmation
Medium	Mammalia-Hydriectis maculicollis

# MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY



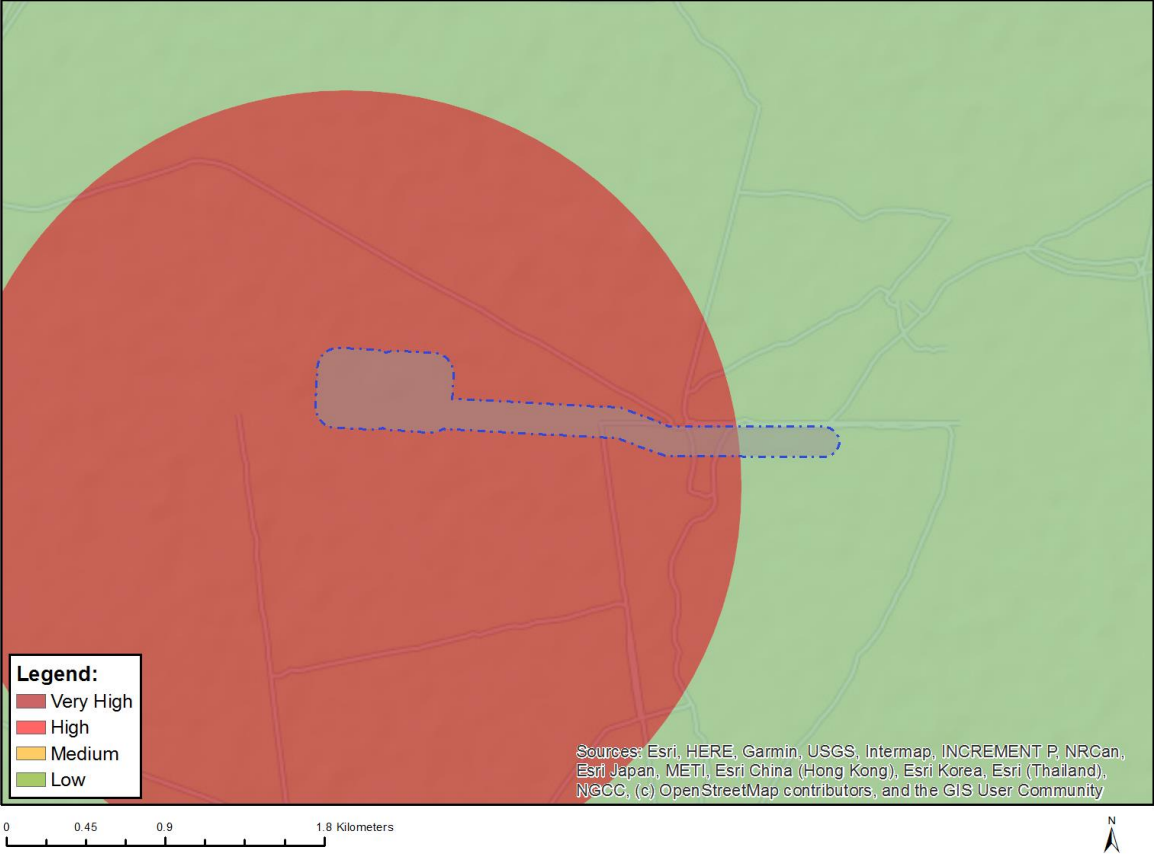
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

**Sensitivity Features:**

Sensitivity	Feature(s)
Low	Low sensitivity



# MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

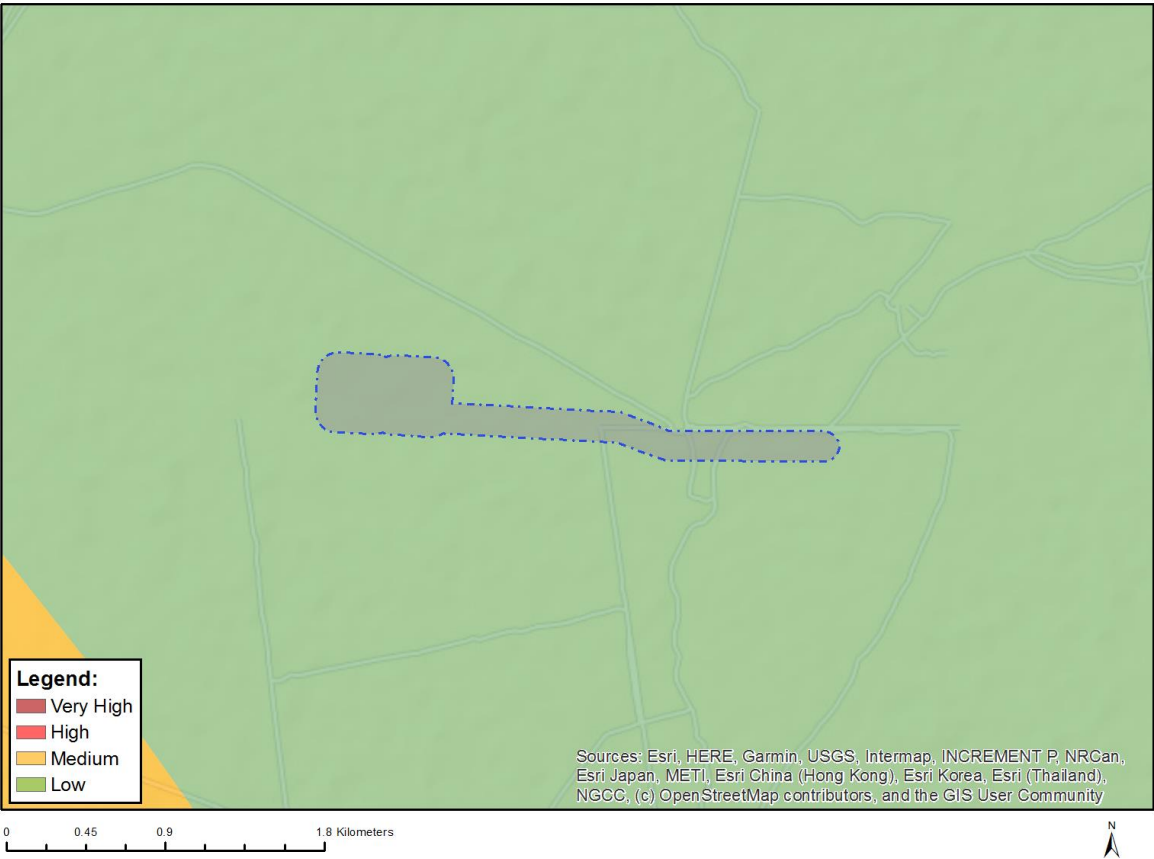


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

**Sensitivity Features:**

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Within 2km of a Grade II Heritage site

# 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

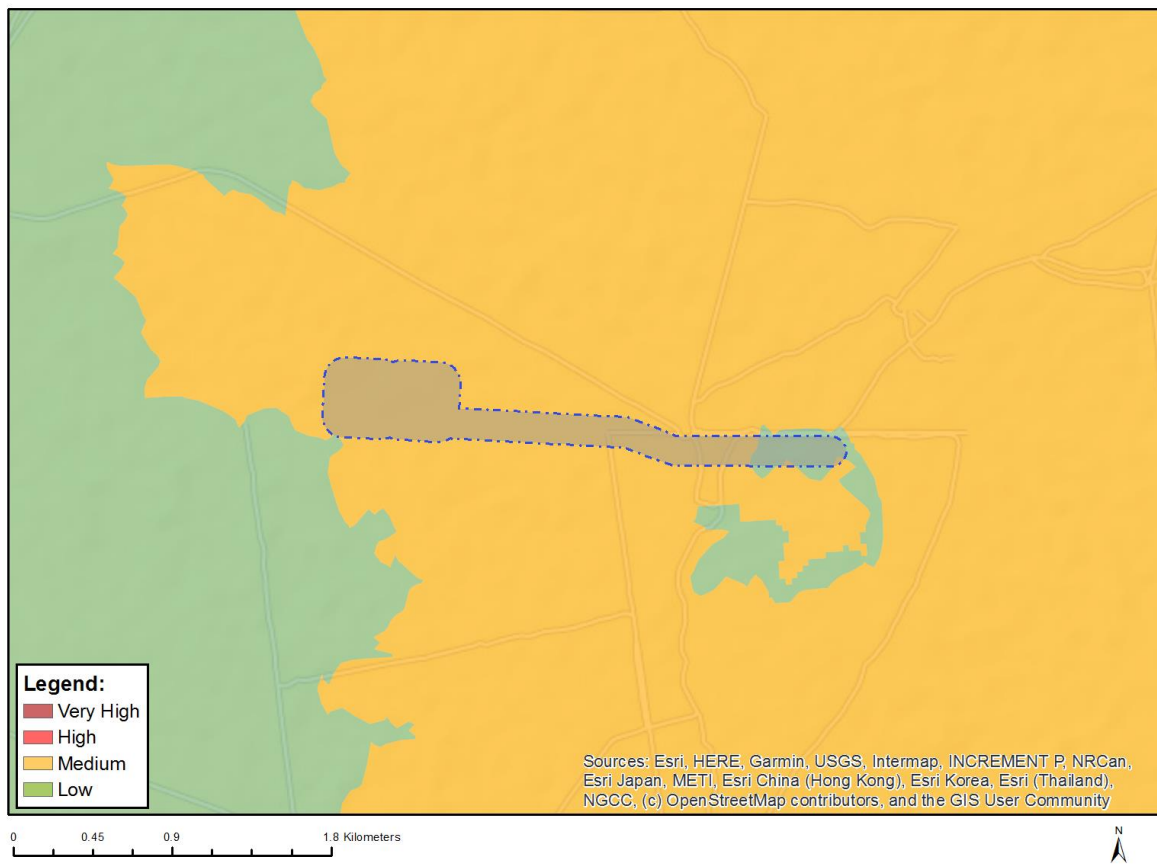


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

**Sensitivity Features:**

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

## MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



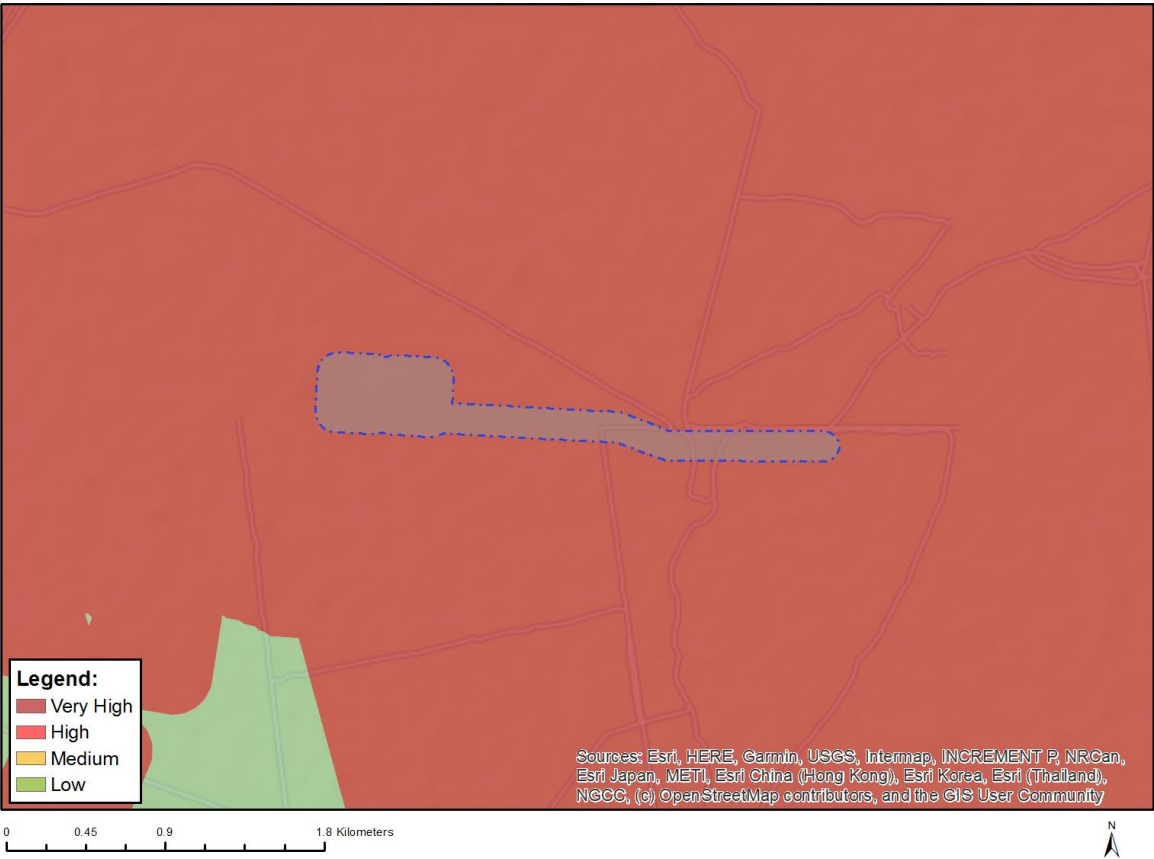
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at [eiadatarequests@sanbi.org.za](mailto:eiadatarequests@sanbi.org.za) 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	Sensitive species 1261

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Ecological support area 1
Very High	Ecological support area 2