

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

EIA Reference number: 1610

Project name: Tetra4 PR extension BA

Project title: A north

Date screening report generated: 15/04/2024 12:49:58

Applicant: Tetra4

Compiler: EIMS

Compiler signature:

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Application Category: Mining|Production Right|Gas or Oil Terrestrial

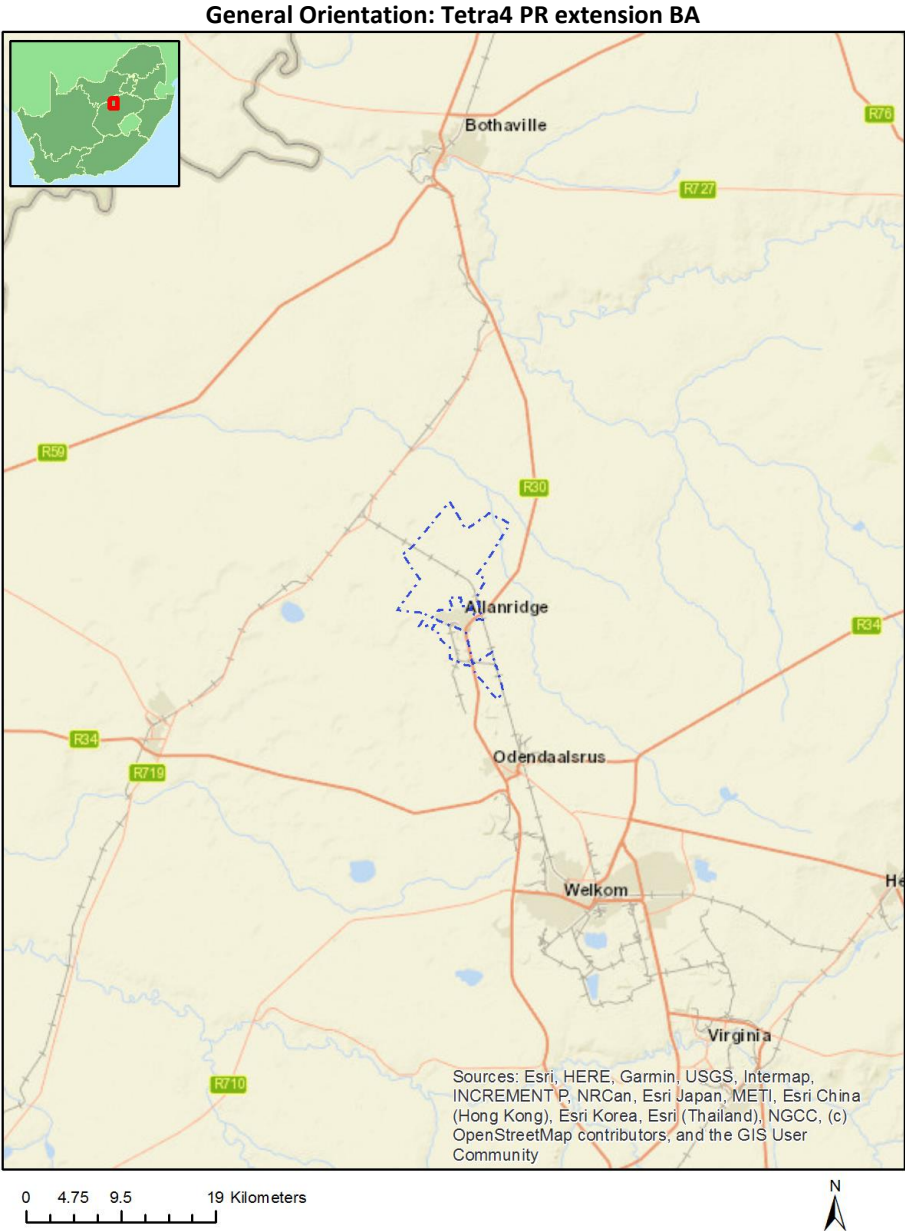
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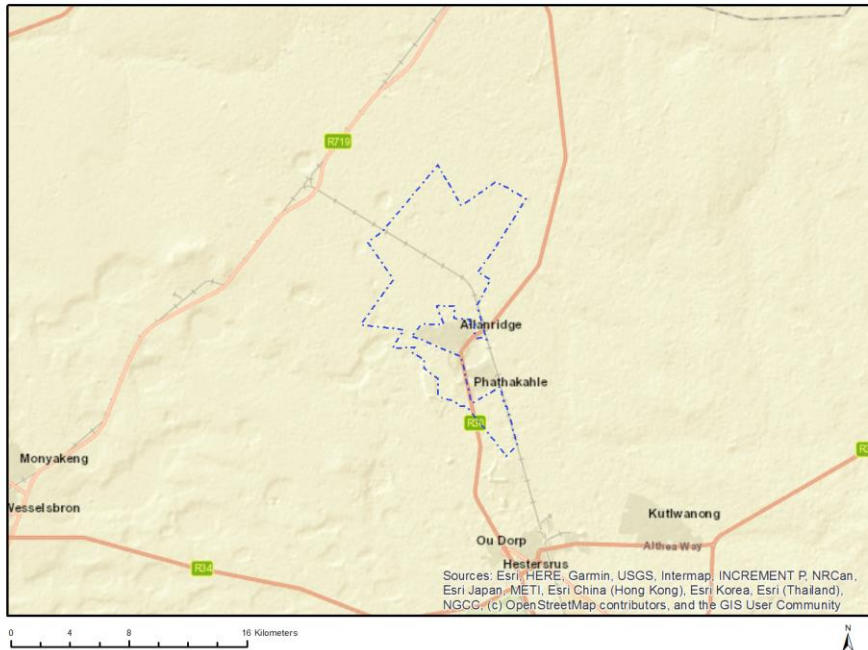
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Proposed Project Location

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	ALLANRIDGE	425	0	27°45'40.51S	26°36'26.37E	Farm
2	KROMDRAAI	386	0	27°46'34.53S	26°37'50.46E	Farm
3	UITKYK	258	0	27°47'15.89S	26°38'43.46E	Farm
4	LE ROEXS PAN 240	1232	0	27°41'44.21S	26°39'7.55E	Farm
5	LECLUSA	70	0	27°48'20.17S	26°39'59.68E	Farm
6	DAM PLAATS	361	0	27°44'18.16S	26°39'43.72E	Farm
7	SWARTPAN	436	0	27°46'21S	26°36'51.72E	Farm
8	LE ROEXS PAN	240	0	27°41'42.97S	26°39'7.83E	Farm
9	ONRUST	377	0	27°45'33.67S	26°35'38.61E	Farm
10	PARADISE	222	0	27°43'14.48S	26°37'10.2E	Farm
11	SWARTPAN	436	0	27°45'35.26S	26°36'46.03E	Farm
12	ZUURBRON	444	0	27°44'33.48S	26°36'5.61E	Farm
13	WESSELSRUST	58	0	27°47'45.56S	26°40'29.12E	Farm
14	LE ROEXS PAN	455	0	27°42'41.18S	26°38'57.35E	Farm
15	ALLANRIDGE	425	0	27°44'38S	26°38'19.84E	Farm
16	DREYERSKUIL	420	0	27°41'24.79S	26°37'18.98E	Farm
17	ELDORADO	211	0	27°43'46.9S	26°36'46.87E	Farm
18	RUSTOORD	33	0	27°45'30.77S	26°39'41.11E	Farm
19	SIBERIA	230	0	27°42'43.99S	26°36'4.09E	Farm
20	DAM PLAATS	361	2	27°44'44.22S	26°39'21.06E	Farm Portion
21	KROMDRAAI	386	1	27°47'4.3S	26°37'36.89E	Farm Portion
22	LE ROEXS PAN	455	0	27°42'41.18S	26°38'57.35E	Farm Portion
23	DREYERSKUIL	420	0	27°41'38.94S	26°37'33.14E	Farm Portion
24	SWARTPAN	436	0	27°45'33.59S	26°36'47.76E	Farm Portion
25	DAM PLAATS	361	0	27°44'52.74S	26°39'11.95E	Farm Portion
26	KROMDRAAI	386	0	27°46'16.35S	26°37'59.48E	Farm Portion

27	SWARTPAN	436	0	27°46'21S	26°36'51.72E	Farm Portion
28	ALLANRIDGE	425	0	27°45'17.34S	26°39'23.72E	Farm Portion
29	WESSELSRUST	58	1	27°47'59.12S	26°40'26.03E	Farm Portion
30	ALLANRIDGE	425	4	27°45'40.51S	26°36'26.37E	Farm Portion
31	ALLANRIDGE	425	6	27°43'45.03S	26°39'22.01E	Farm Portion
32	ALLANRIDGE	425	16	27°44'1.7S	26°38'22.46E	Farm Portion
33	SIBERIA	230	0	27°42'43.99S	26°36'4.09E	Farm Portion
34	PARADISE	222	0	27°43'14.48S	26°37'10.2E	Farm Portion
35	LE ROEXS PAN	240	0	27°41'37.49S	26°40'16.98E	Farm Portion
36	UITKYK	258	0	27°47'21.62S	26°38'30.5E	Farm Portion
37	LECLUSA	70	0	27°48'20.17S	26°39'59.68E	Farm Portion
38	LE ROEXS PAN	240	2	27°42'15.38S	26°37'59E	Farm Portion
39	LE ROEXS PAN	240	4	27°41'0.39S	26°39'28.67E	Farm Portion
40	DREYERSKUIL	420	1	27°41'10.64S	26°37'4.81E	Farm Portion
41	RUSTOORD	33	0	27°45'30.77S	26°39'41.11E	Farm Portion
42	UITKYK	258	1	27°46'27.15S	26°38'32.86E	Farm Portion
43	ALLANRIDGE	425	15	27°44'39.46S	26°37'14.41E	Farm Portion
44	LE ROEXS PAN	240	3	27°41'27.12S	26°39'43.63E	Farm Portion
45	WELVAART	63	1	27°46'29.6S	26°36'9.99E	Farm Portion
46	ONRUST	377	0	27°45'33.67S	26°35'38.61E	Farm Portion
47	ZUURBRON	444	0	27°44'15.86S	26°36'23.07E	Farm Portion
48	ALLANRIDGE	425	8	27°45'8.4S	26°39'18.09E	Farm Portion
49	ALLANRIDGE	425	9	27°43'47.58S	26°38'59.89E	Farm Portion
50	ELDORADO	211	0	27°43'46.9S	26°36'46.87E	Farm Portion
51	UITKYK	258	4	27°46'45.89S	26°38'43.88E	Farm Portion
52	WESSELSRUST	58	0	27°47'45.03S	26°40'29.24E	Farm Portion
53	ZUURBRON	444	1	27°44'46.86S	26°35'52.38E	Farm Portion
54	UITKYK	258	7	27°47'2.13S	26°38'40.7E	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	14/12/16/3/3/2/2219	Solar PV	Approved	20.2
2	14/12/16/3/3/1/1471	Solar PV	Approved	10.7
3	14/12/16/3/3/1/1471/AM1	Solar PV	Approved	10.7
4	14/12/16/3/3/2/2218	Solar PV	Approved	19.1
5	14/12/16/3/3/3/1/644/AM1	Solar PV	Approved	8.6
6	14/12/16/3/3/2/376/2	Solar PV	Approved	8.6
7	14/12/16/3/3/2/376/1	Solar PV	Approved	8.6
8	14/12/16/3/3/2/2091	Solar PV	Approved	1.1
9	14/12/16/3/3/2/2220	Solar PV	Approved	19.1
10	14/12/16/3/3/1/1444	Solar PV	Approved	6
11	14/12/16/3/3/1/2410	Solar PV	Approved	0
12	14/12/16/3/3/3/1/644	Solar PV	Approved	8.6

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.

13	14/12/16/3/3/2/376/AM2	Solar PV	Approved	8.6
14	14/12/16/3/3/1/2499	Solar PV	Approved	8.6
15	14/12/16/3/3/2/2221	Solar PV	Approved	21.4
16	14/12/16/3/3/2/376/2/AM6	Solar PV	Approved	8.6
17	14/12/16/3/3/1/1472	Solar PV	Approved	9.2

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:

Mining | Production Right | Gas or Oil Terrestrial.

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 Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf

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	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 Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
7	Hydrology Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
9	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Noise_Impacts_Assessment_Protocol.pdf
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
11	Health Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
12	Ambient Air Quality Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
13	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
14	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf

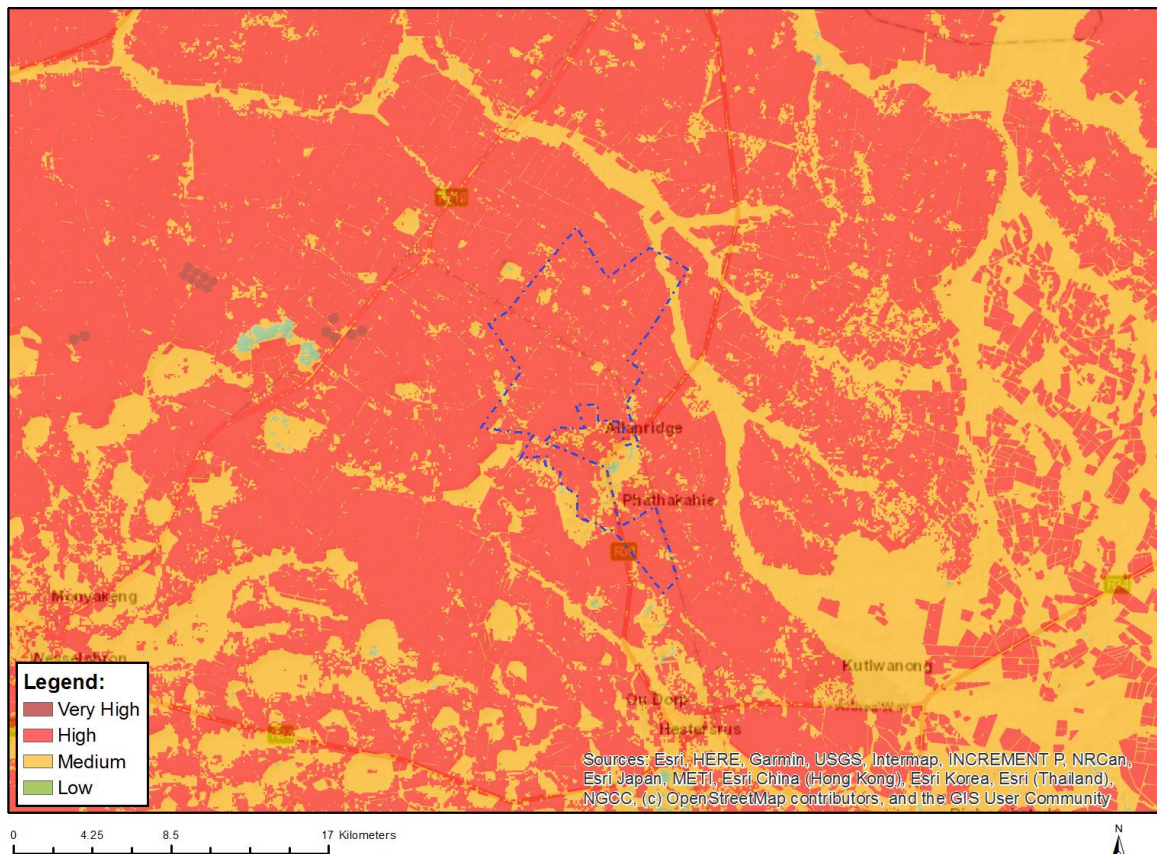
		ssmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf
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Results of the environmental sensitivity of the proposed area.

The following section represents the results of the screening for environmental sensitivity of the proposed 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

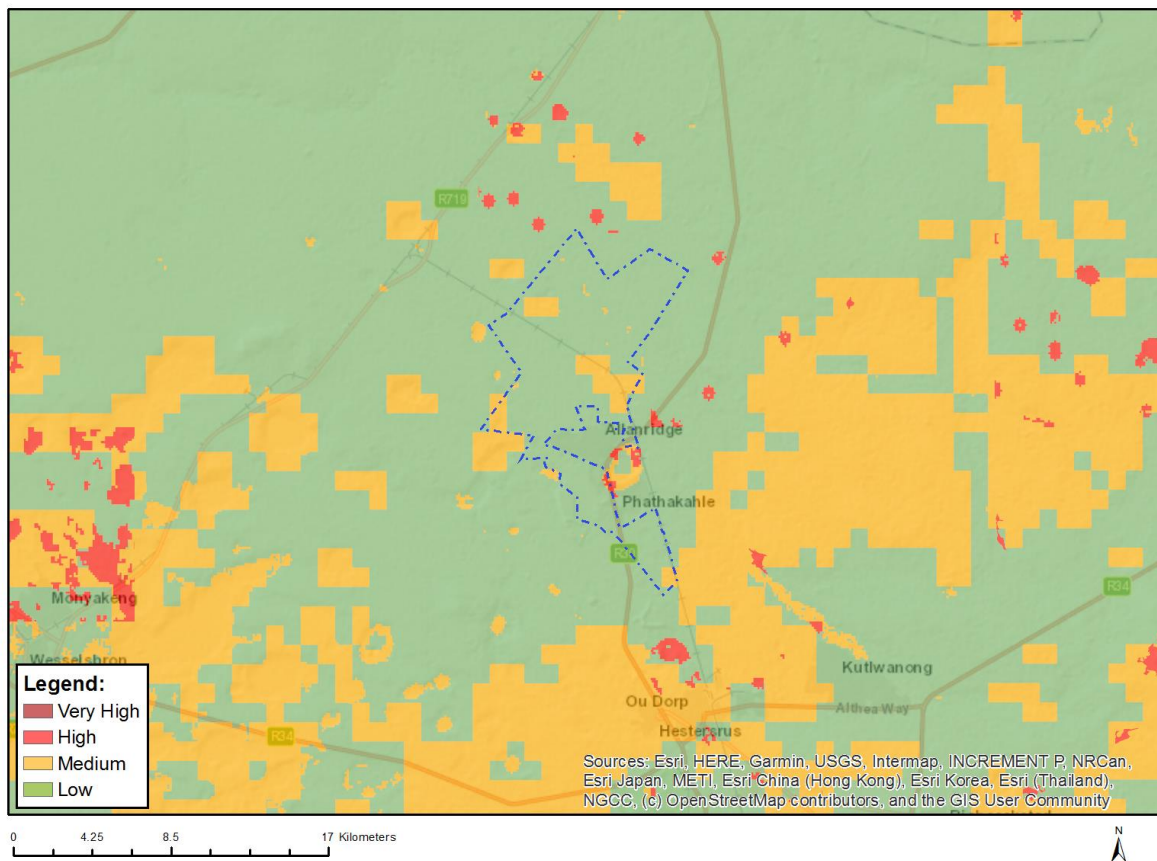


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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
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



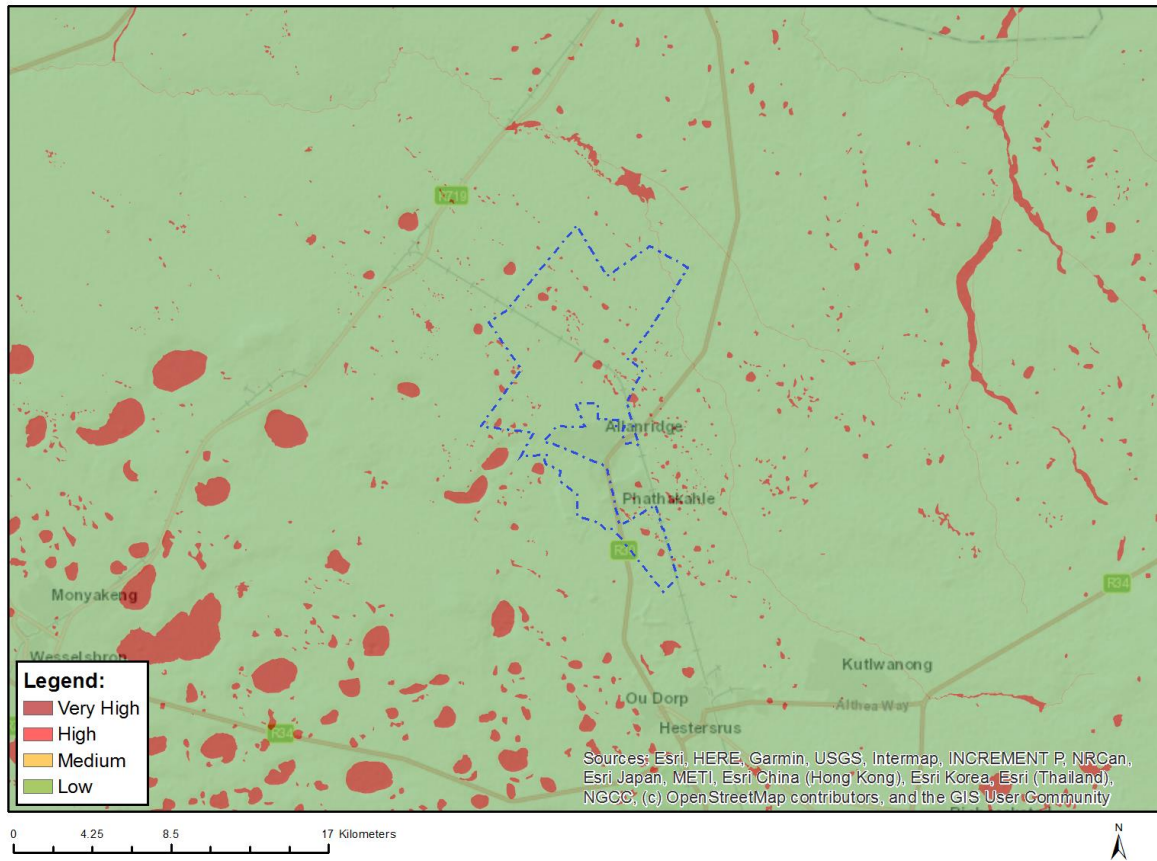
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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-Circus ranivorus
Low	Subject to confirmation
Medium	Aves-Hydroprogne caspia
Medium	Mammalia-Hydrictis maculicollis
Medium	Sensitive species 15

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

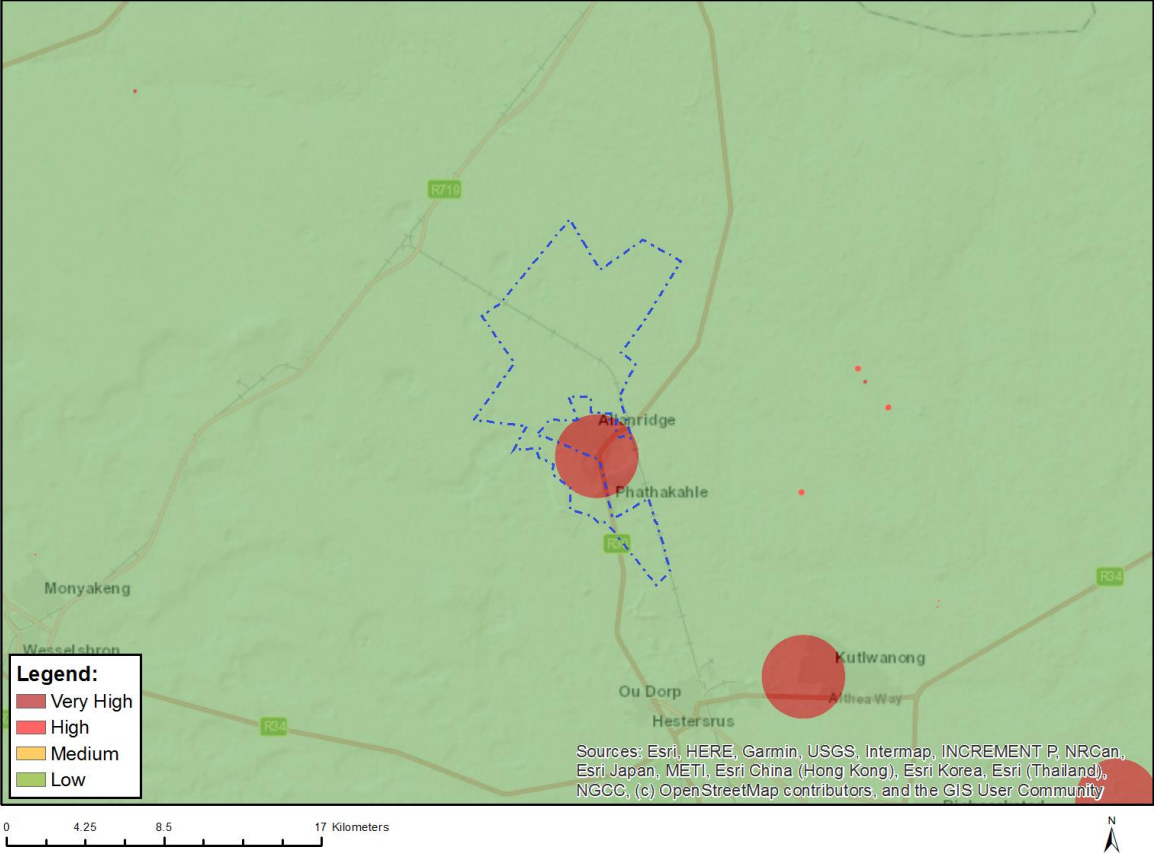


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Rivers_C
Very High	Wetlands_Dry Highveld Grassland Bioregion (Depression)
Very High	Wetlands_Dry Highveld Grassland Bioregion (Seep)

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

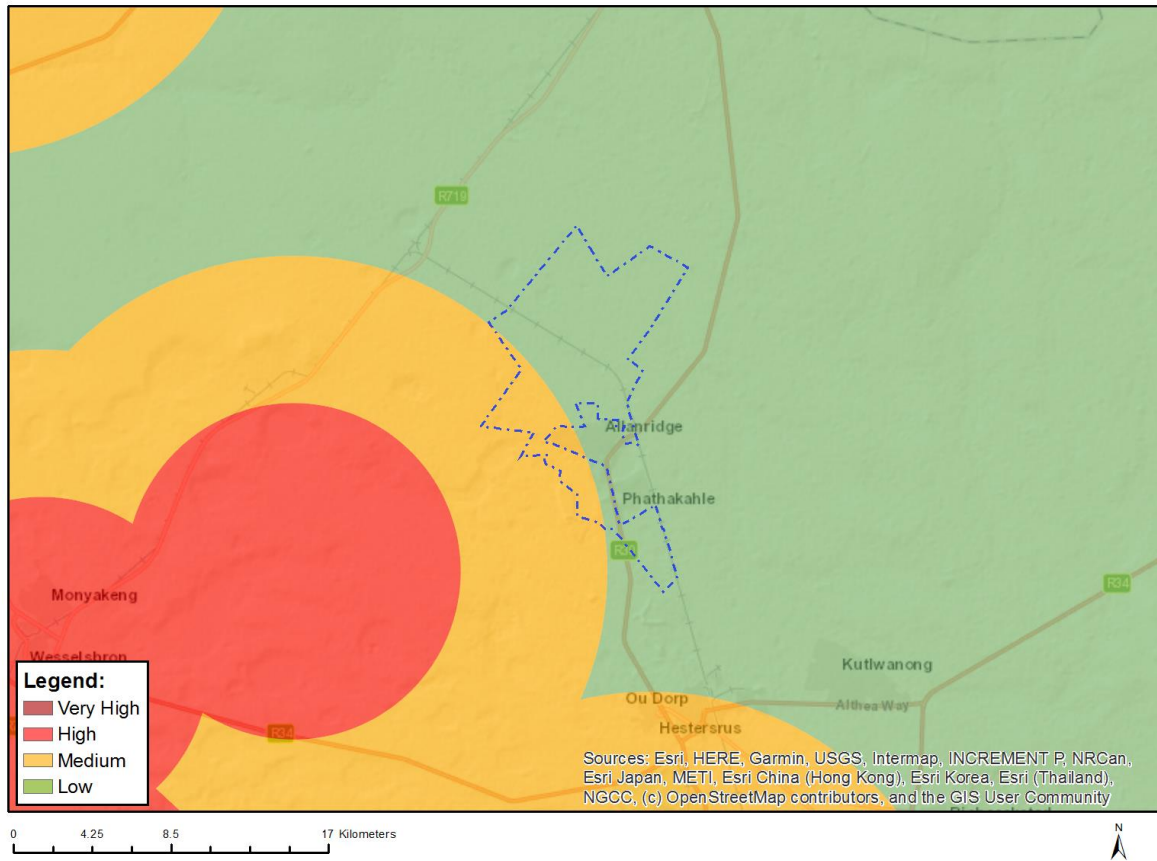


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

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

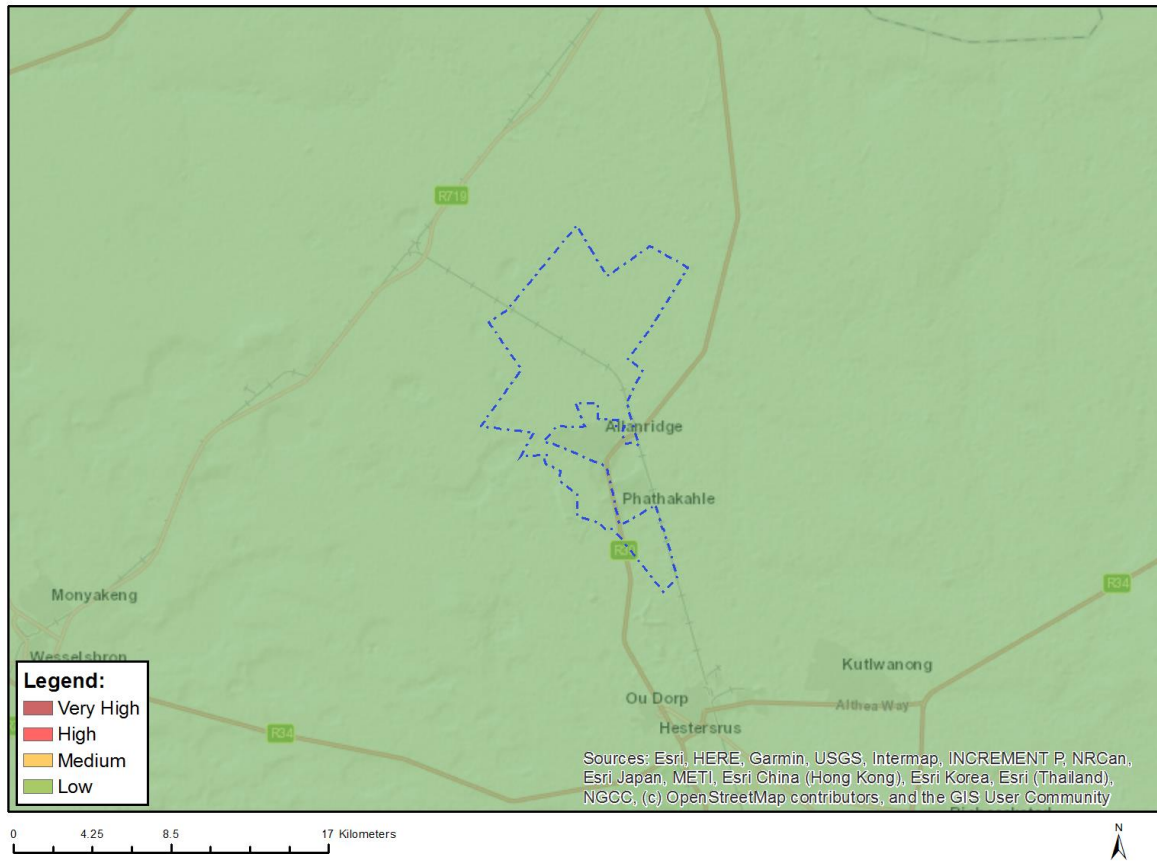


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

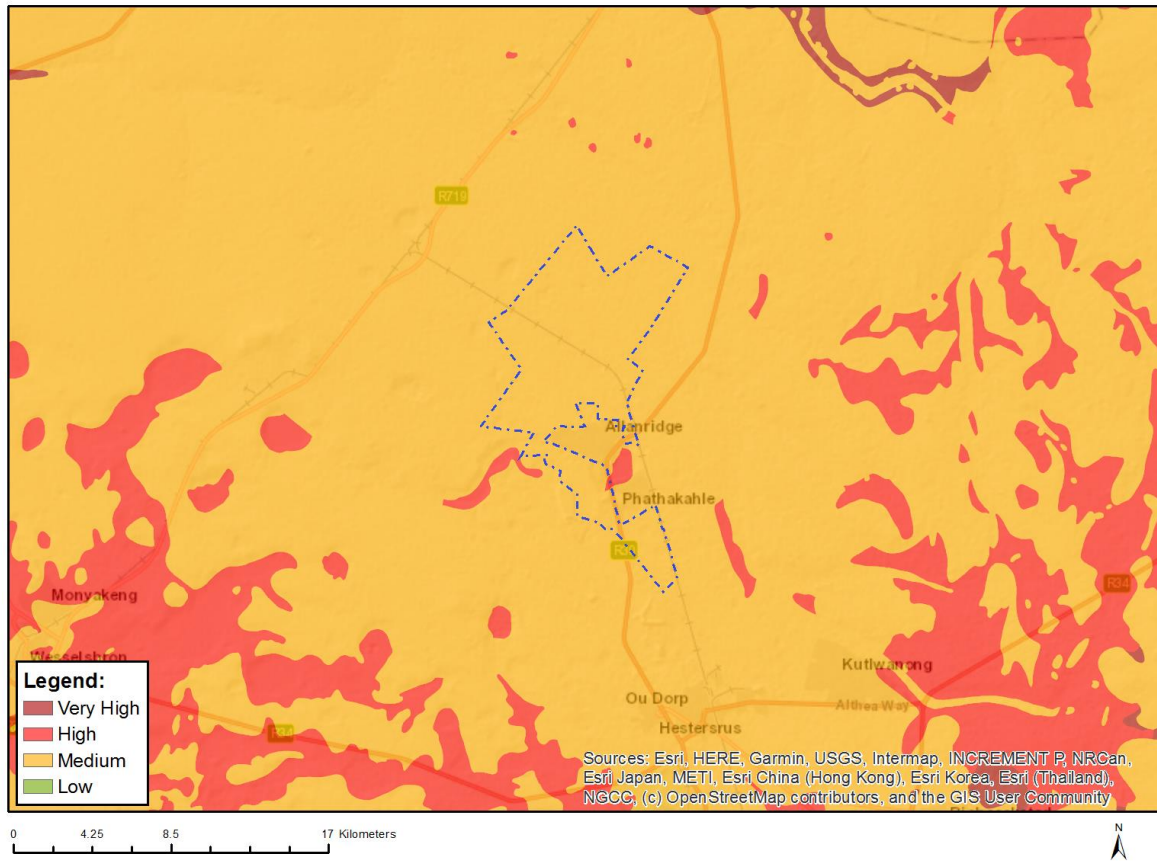


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

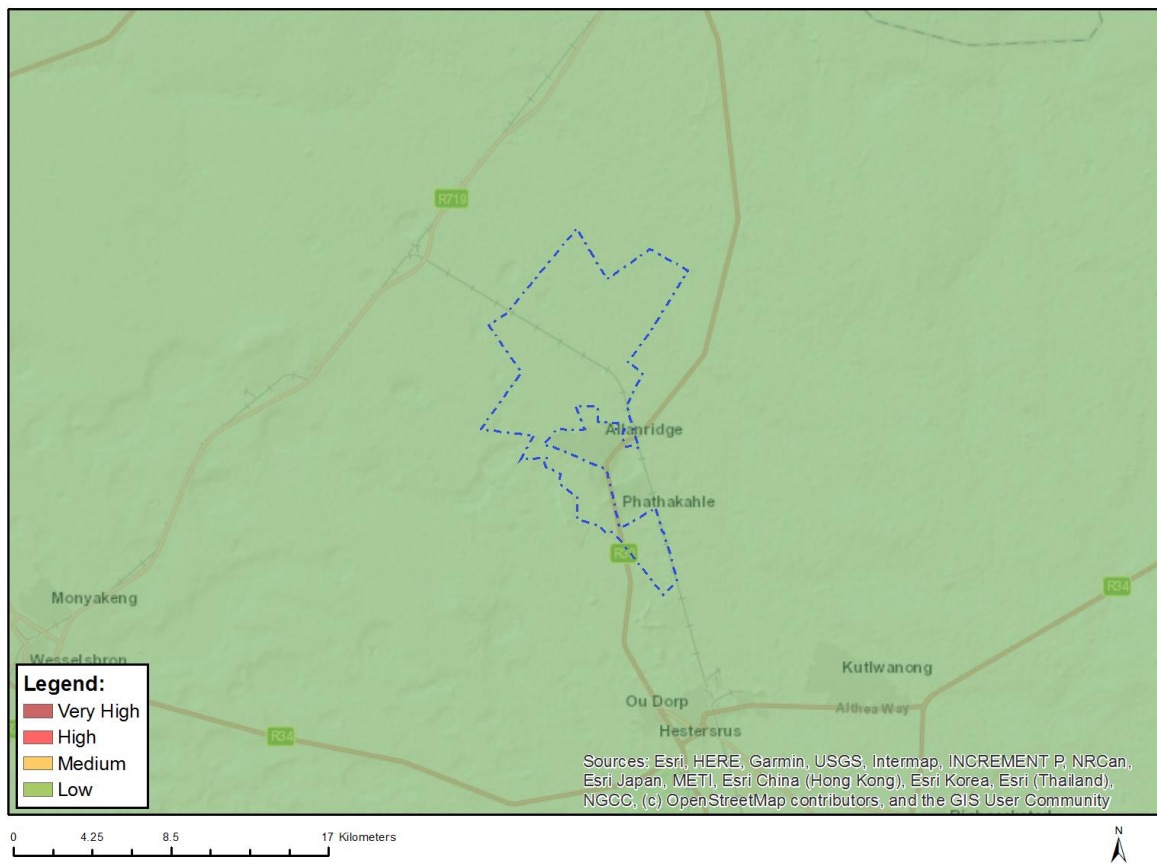


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



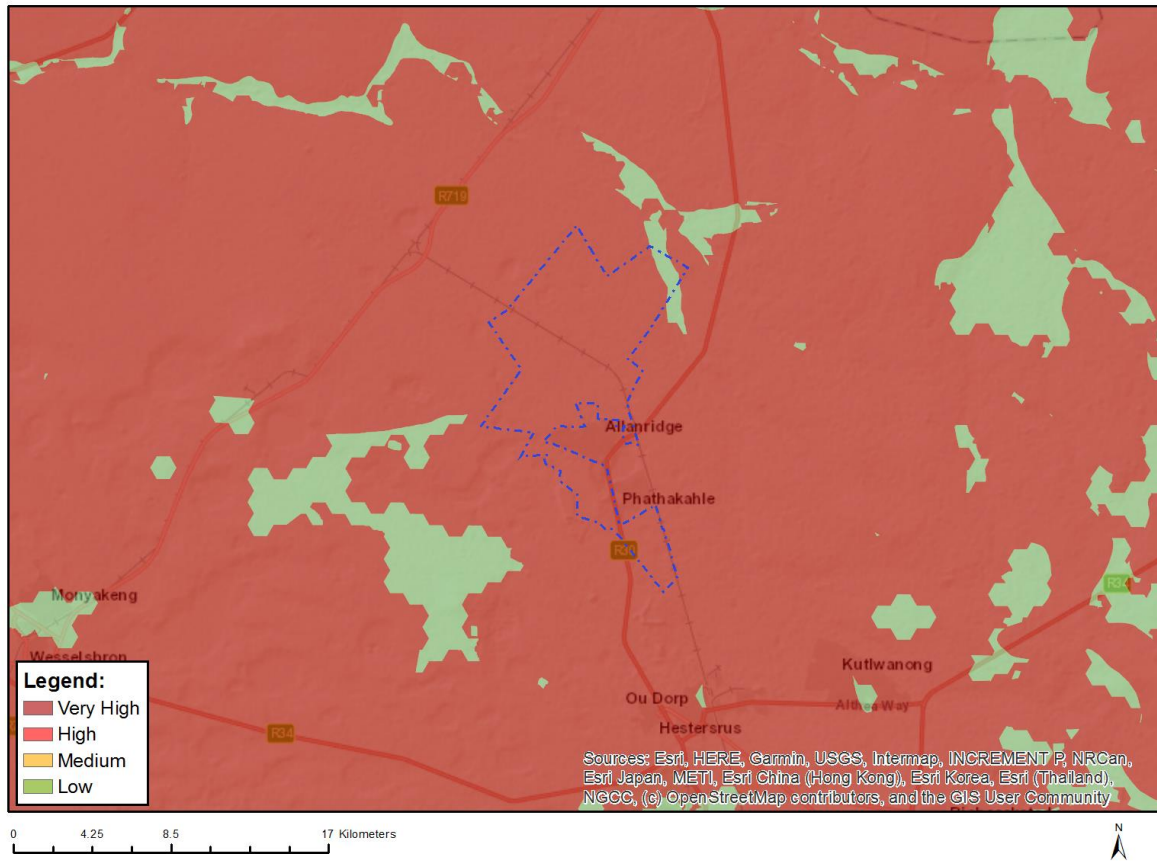
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their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

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	CBA 1
Very High	ESA 1
Very High	ESA 2
Very High	EN_Vaal-Vet Sandy Grassland

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

EIA Reference number: 1610

Project name: Tetra4 PR Extension BA

Project title: South B

Date screening report generated: 15/04/2024 13:08:37

Applicant: Tetr4

Compiler: EIMS

Compiler signature:

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Application Category: Mining|Production Right|Gas or Oil Terrestrial

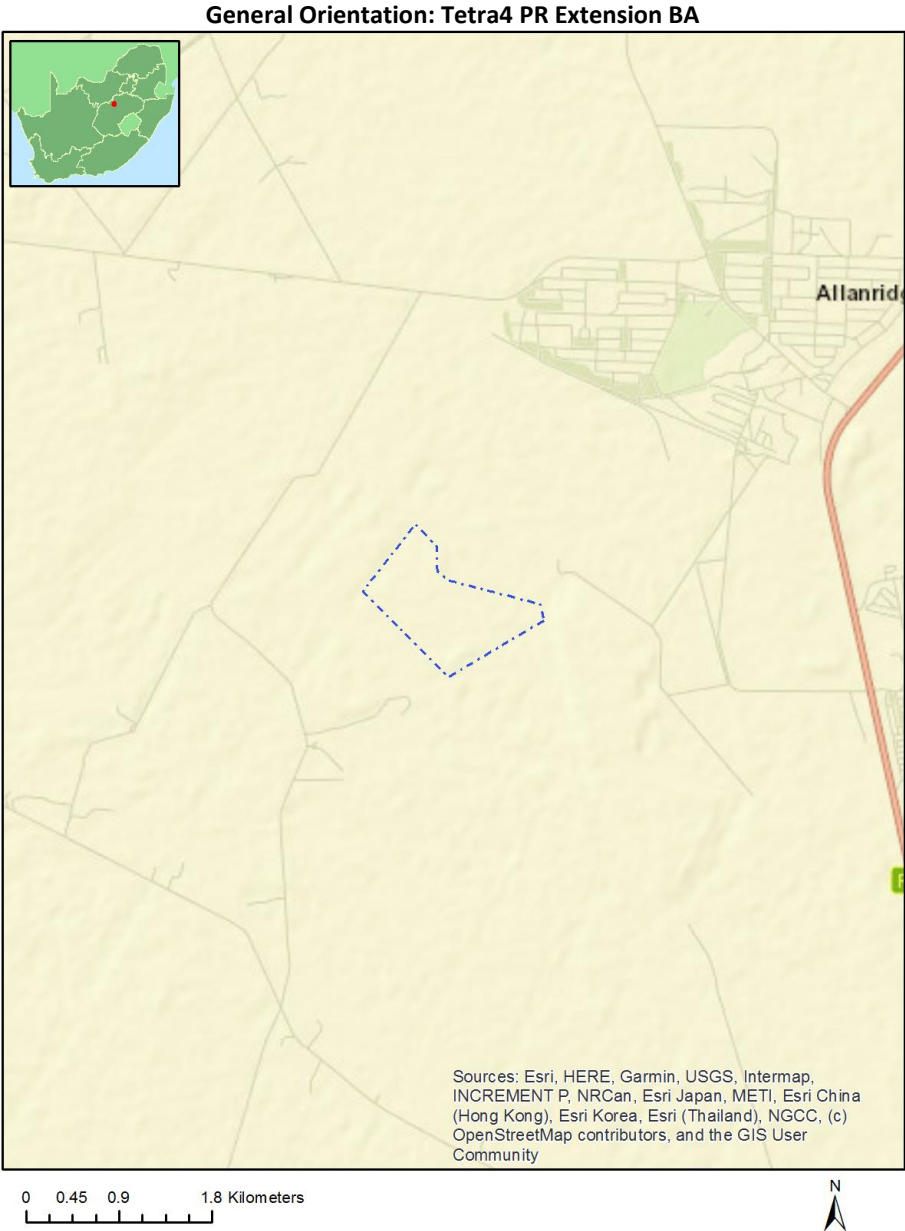
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Proposed Project Location

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	SWARTPAN	436	0	27°46'21S	26°36'51.72E	Farm
2	DIAMANT	37	0	27°46'46S	26°36'49.36E	Farm
3	DIAMANT	37	0	27°46'46S	26°36'49.36E	Farm Portion
4	SWARTPAN	436	0	27°46'21S	26°36'51.72E	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	14/12/16/3/3/2/2219	Solar PV	Approved	28.1
2	14/12/16/3/3/1/1471	Solar PV	Approved	17.2
3	14/12/16/3/3/1/1471/AM1	Solar PV	Approved	17.2
4	14/12/16/3/3/2/2218	Solar PV	Approved	27.1

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	14/12/16/3/3/3/1/644/AM1	Solar PV	Approved	16.9
6	14/12/16/3/3/2/376/2	Solar PV	Approved	16.9
7	14/12/16/3/3/2/376/1	Solar PV	Approved	16.9
8	14/12/16/3/3/2/2091	Solar PV	Approved	9
9	14/12/16/3/3/2/2220	Solar PV	Approved	27.1
10	14/12/16/3/3/1/1444	Solar PV	Approved	13.8
11	14/12/16/3/3/1/2410	Solar PV	Approved	3.3
12	14/12/16/3/3/3/1/644	Solar PV	Approved	16.9
13	14/12/16/3/3/2/376/AM2	Solar PV	Approved	16.9
14	14/12/16/3/3/1/2499	Solar PV	Approved	16.9
15	14/12/16/3/3/2/2221	Solar PV	Approved	29.1
16	14/12/16/3/3/2/376/2/AM6	Solar PV	Approved	16.9
17	14/12/16/3/3/1/1472	Solar PV	Approved	15.6

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:

Mining | Production Right | Gas or Oil Terrestrial.

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 Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf

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				X

Heritage Theme				
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	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 Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Aquatic Biodiversity Assessment Protocols.pdf
7	Hydrology Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
8	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
9	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Noise Impacts Assessment Protocol.pdf
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
11	Health Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted General Requirement Assessment Protocols.pdf
12	Ambient Air Quality Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted Ambient Air Quality Assessment Protocol.pdf

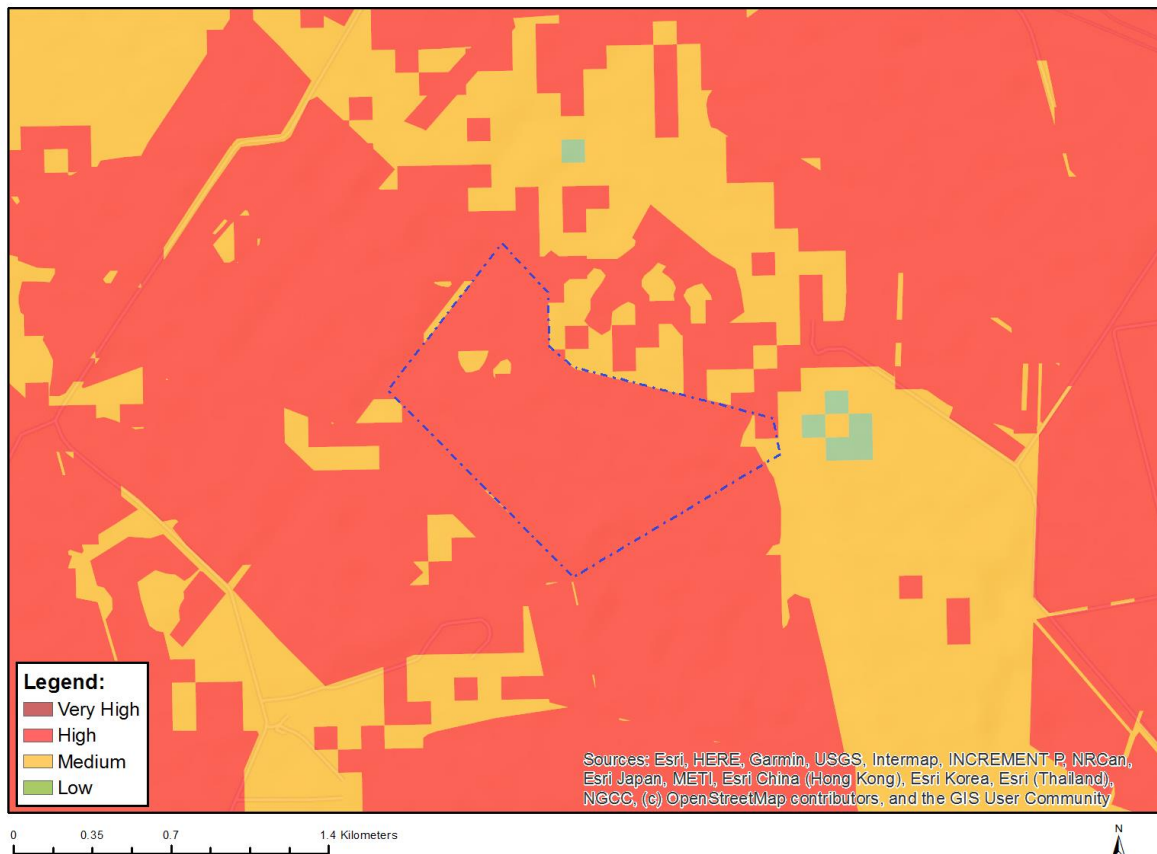
		ssmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
13	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
14	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

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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 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

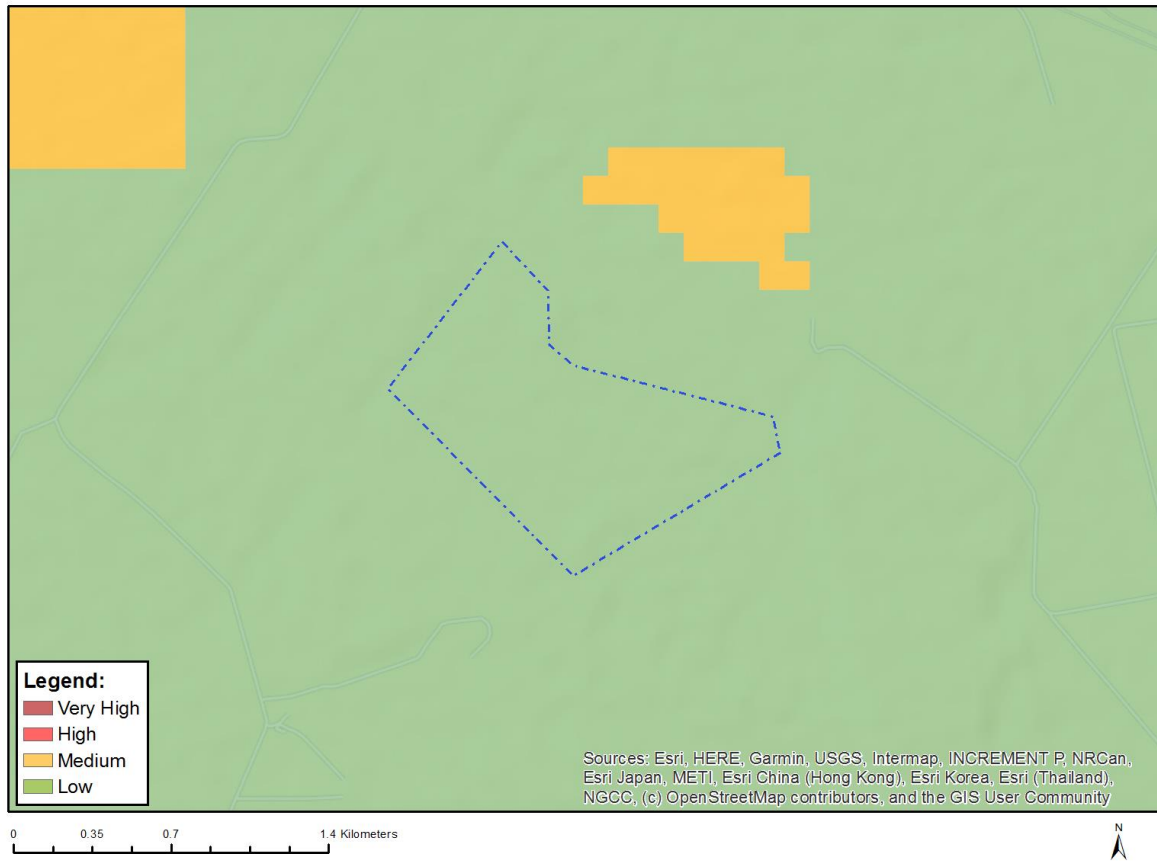


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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
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)
Low	Subject to confirmation

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

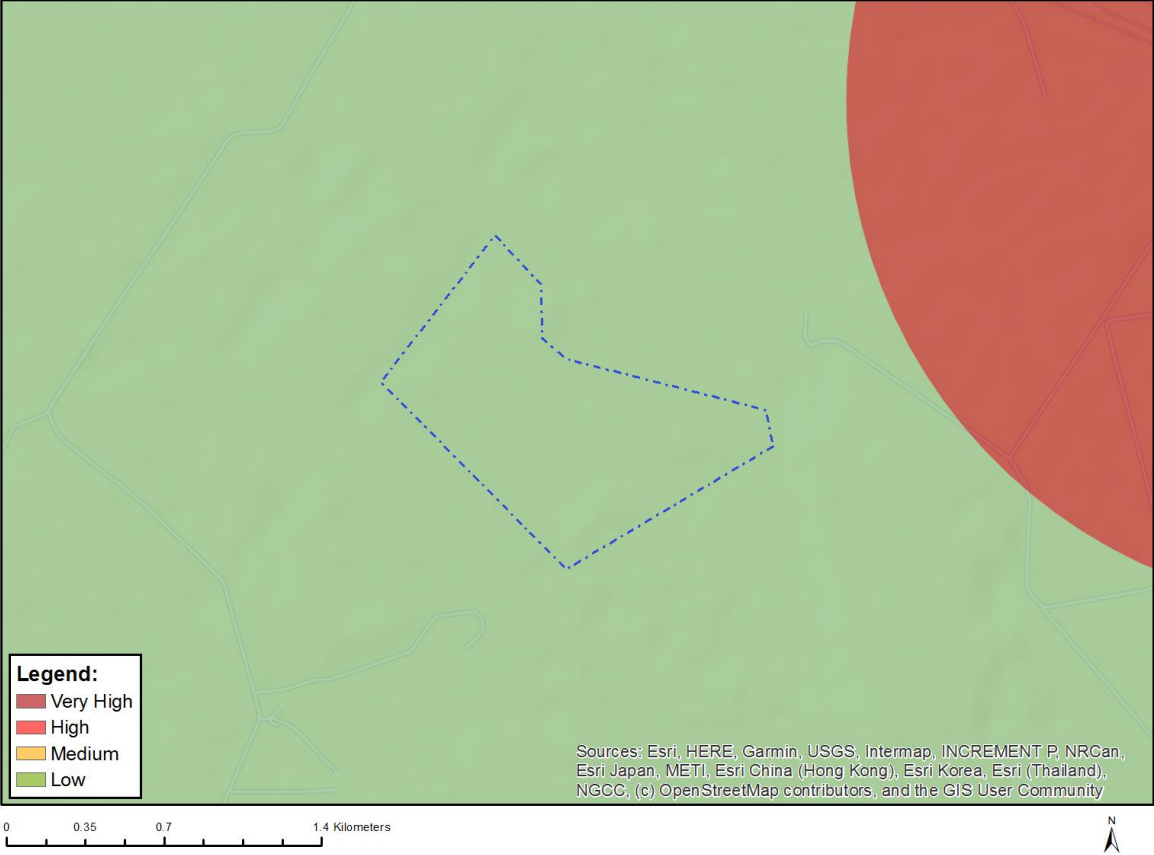


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands_Dry Highveld Grassland Bioregion (Depression)

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

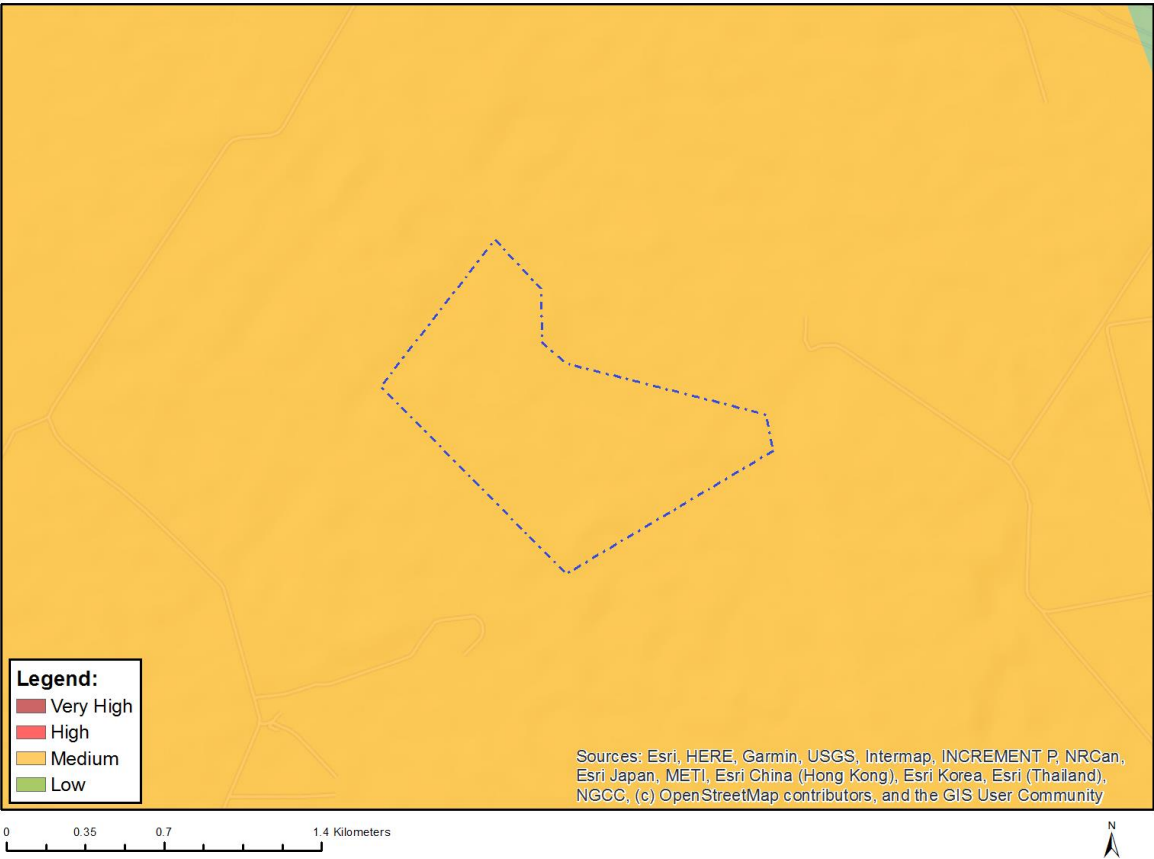


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

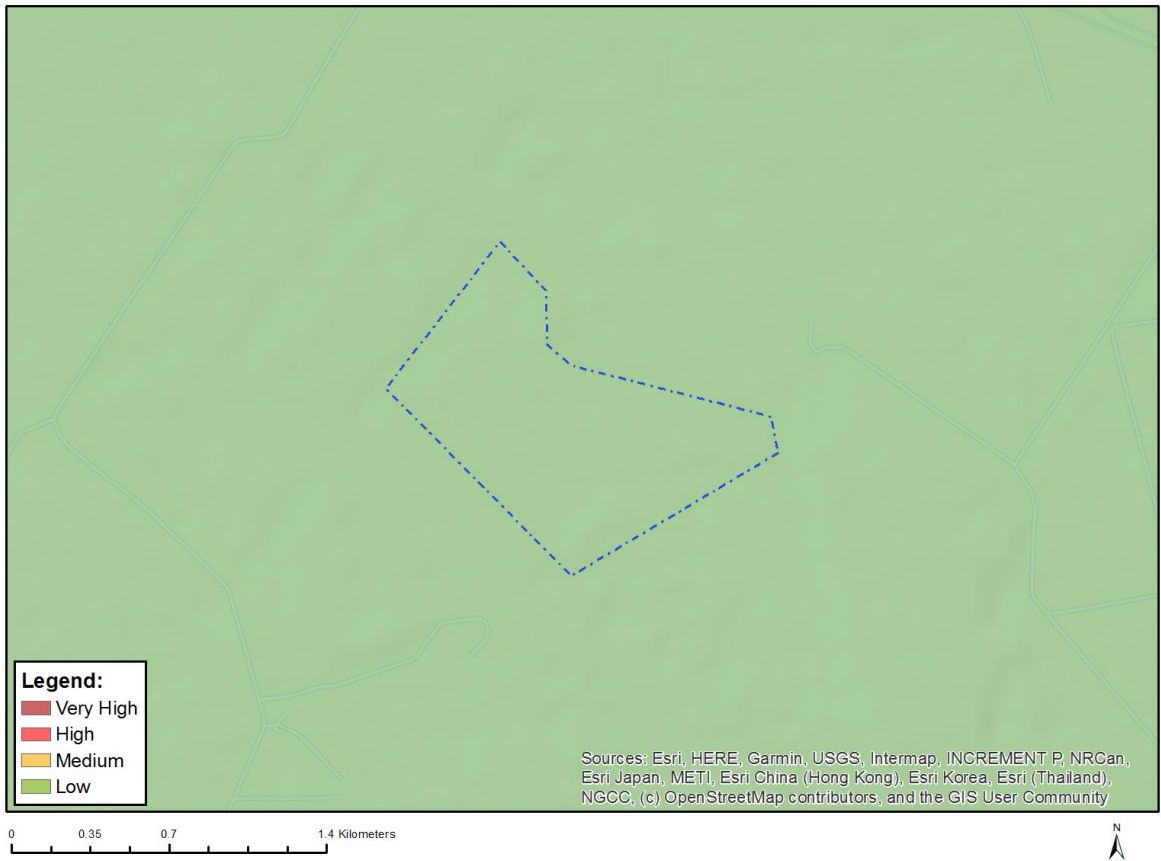


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

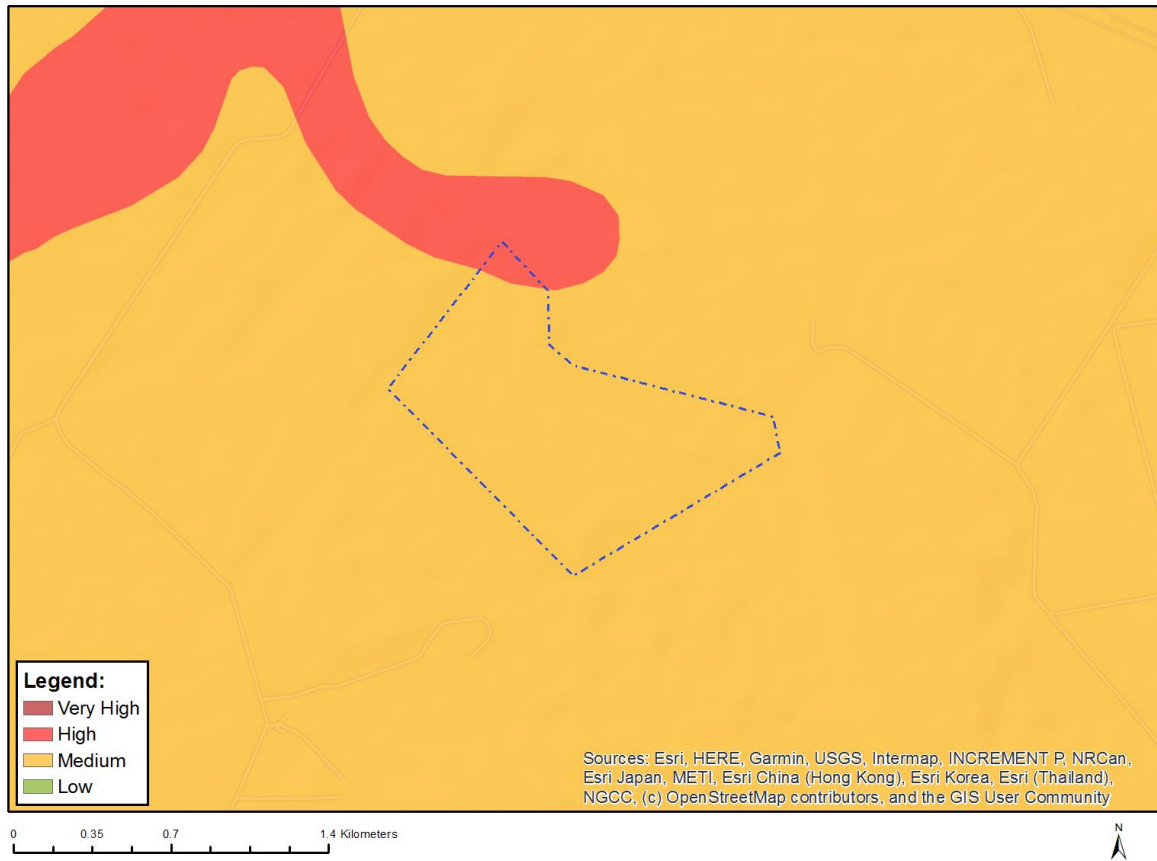


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

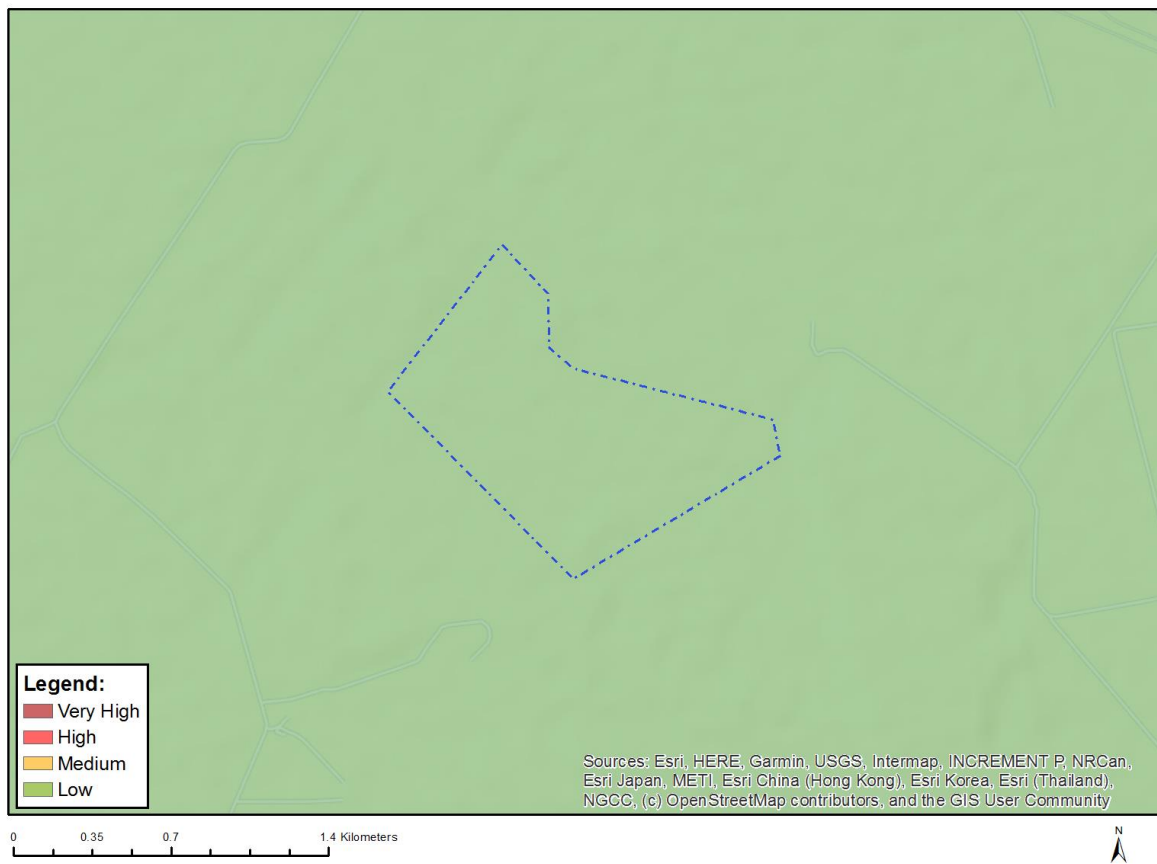


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



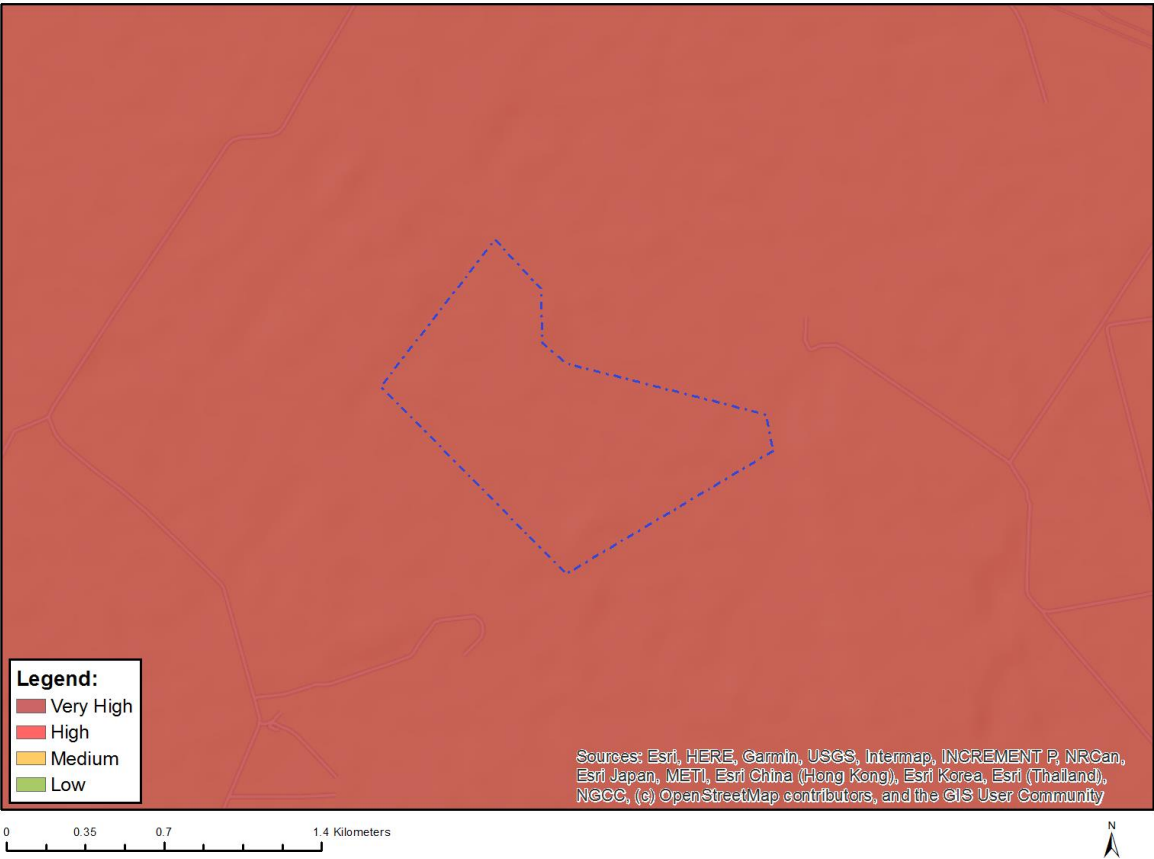
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their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

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	ESA 2
Very High	EN_Vaal-Vet Sandy Grassland

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

EIA Reference number: 1610

Project name: Tetra4 PR extension BA

Project title: C North

Date screening report generated: 15/04/2024 12:59:03

Applicant: Tetra4

Compiler: EIMS

Compiler signature:
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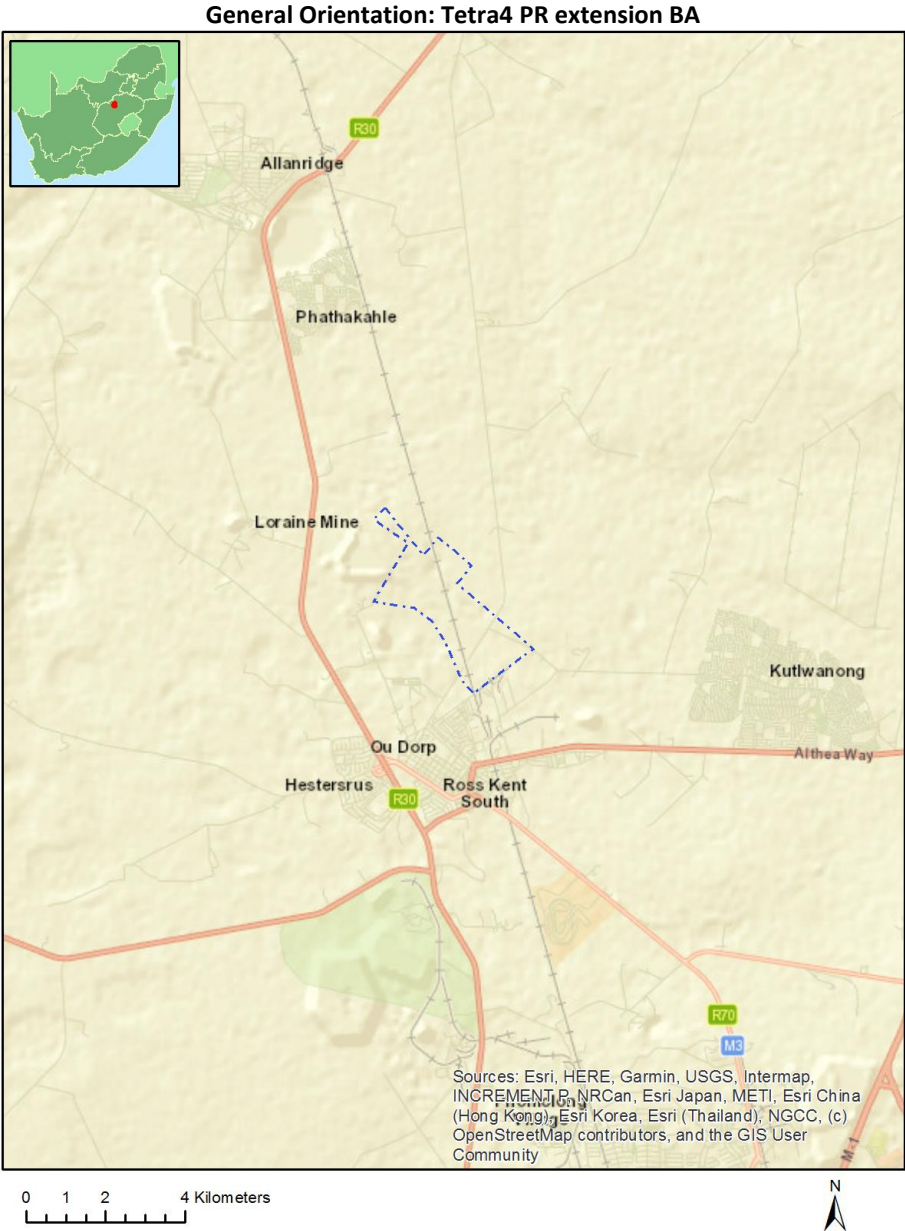
Application Category: Mining|Production Right|Gas or Oil Terrestrial

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- Map of proposed site and relevant area(s) 4
 - Cadastral details of the proposed site 4
 - Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area 4
 - Environmental Management Frameworks relevant to the application 5
- Environmental screening results and assessment outcomes 5
 - Relevant development incentives, restrictions, exclusions or prohibitions 5
 - Proposed Development Area Environmental Sensitivity 5
 - Specialist assessments identified 6
- Results of the environmental sensitivity of the proposed area 8
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 - MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY 9
 - MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY 10
 - MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY 11
 - MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY 12
 - MAP OF RELATIVE DEFENCE THEME SENSITIVITY 13
 - MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY 14
 - MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY 15
 - MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY 16

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	GOUD RAND	272	0	27°49'31.99S	26°40'28.67E	Farm
2	OPHIR	405	0	27°51'3.62S	26°41'31.49E	Farm
3	DOLLY	404	0	27°50'23.7S	26°40'47.01E	Farm
4	WESSELS GUNST	261	0	27°49'56.74S	26°41'12.84E	Farm
5	WESSELS GUNST	261	0	27°49'56.74S	26°41'12.84E	Farm Portion
6	DOLLY	404	0	27°50'23.73S	26°40'51.19E	Farm Portion
7	OPHIR	405	0	27°51'3.62S	26°41'31.49E	Farm Portion
8	GOUD RAND	272	0	27°49'31.99S	26°40'28.67E	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

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.

No	EIA Reference No	Classification	Status of application	Distance from proposed area (km)
1	14/12/16/3/3/2/2219	Solar PV	Approved	15.7
2	14/12/16/3/3/1/1471	Solar PV	Approved	6.3
3	14/12/16/3/3/1/1471/AM1	Solar PV	Approved	6.3
4	14/12/16/3/3/2/2218	Solar PV	Approved	14.6
5	14/12/16/3/3/3/1/644/AM1	Solar PV	Approved	14
6	14/12/16/3/3/2/376/2	Solar PV	Approved	14
7	14/12/16/3/3/2/376/1	Solar PV	Approved	14
8	14/12/16/3/3/2/2091	Solar PV	Approved	0
9	14/12/16/3/3/2/2220	Solar PV	Approved	14.6
10	14/12/16/3/3/1/1444	Solar PV	Approved	0.9
11	14/12/16/3/3/1/2410	Solar PV	Approved	0
12	14/12/16/3/3/3/1/644	Solar PV	Approved	14
13	14/12/16/3/3/2/376/AM2	Solar PV	Approved	14
14	14/12/16/3/3/1/2499	Solar PV	Approved	14
15	14/12/16/3/3/2/2221	Solar PV	Approved	17.4
16	14/12/16/3/3/2/376/2/AM6	Solar PV	Approved	14
17	14/12/16/3/3/1/1472	Solar PV	Approved	4.8

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:

Mining | Production Right | Gas or Oil Terrestrial.

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 Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf

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	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 Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
7	Hydrology Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
9	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Noise_Impacts_Assessment_Protocol.pdf
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Geotechnical_Assessment_Protocol.pdf

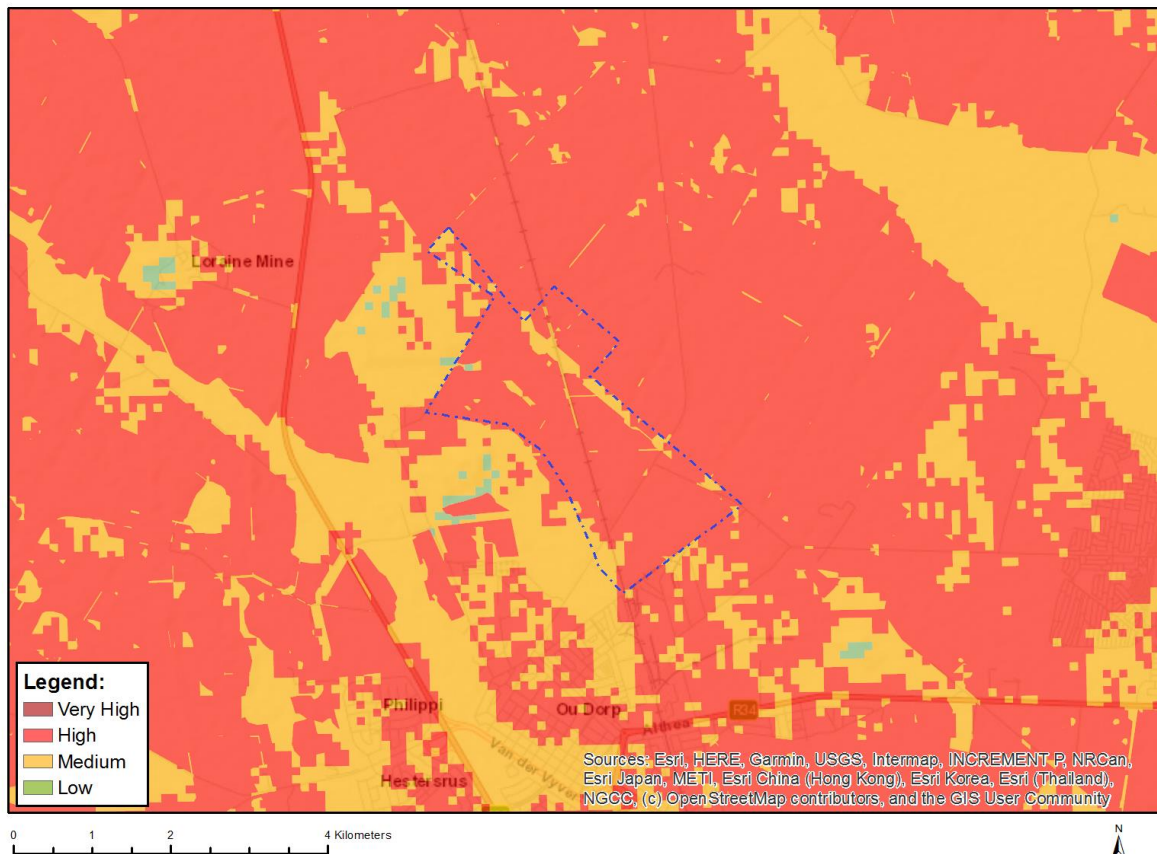
		ssmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
11	Health Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
12	Ambient Air Quality Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
13	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
14	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

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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 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



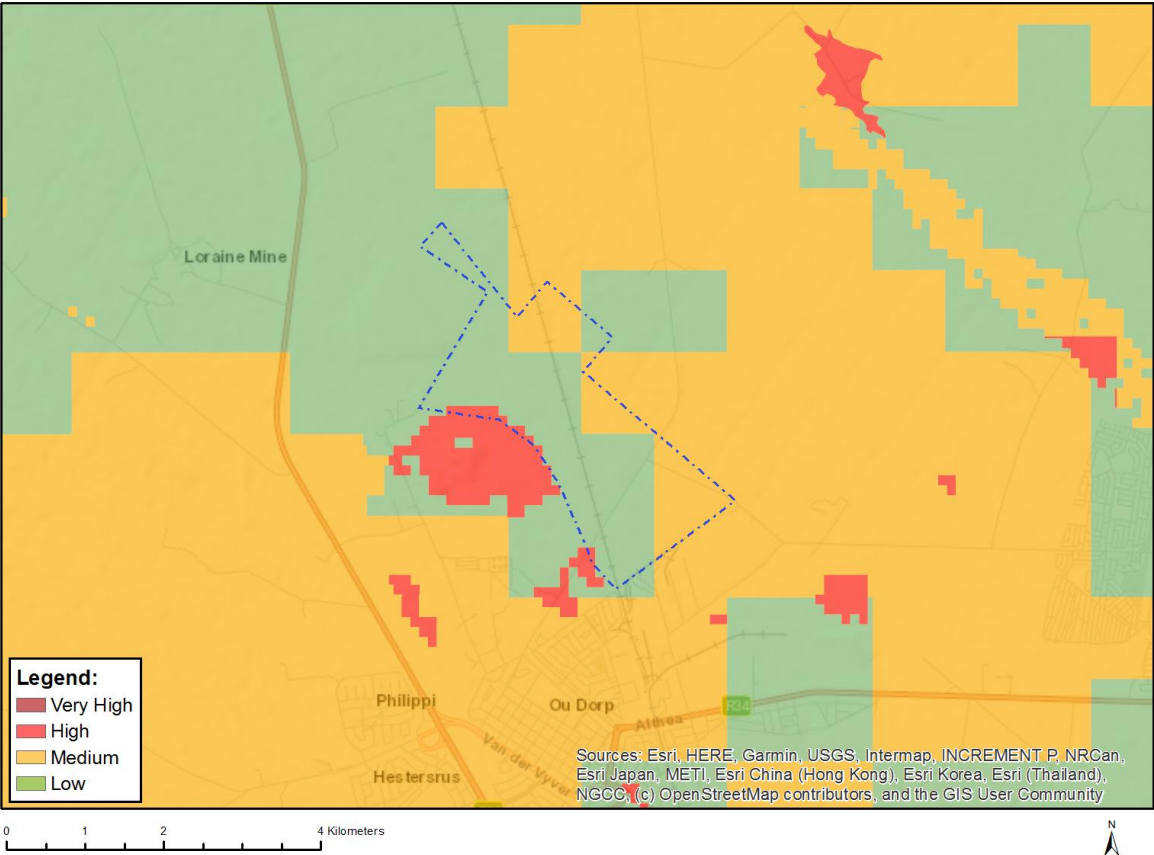
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;09. Moderate-High/10. Moderate-High
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
High	Old Fields;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate
High	Old Fields;Land capability;09. Moderate-High/10. Moderate-High
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
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MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



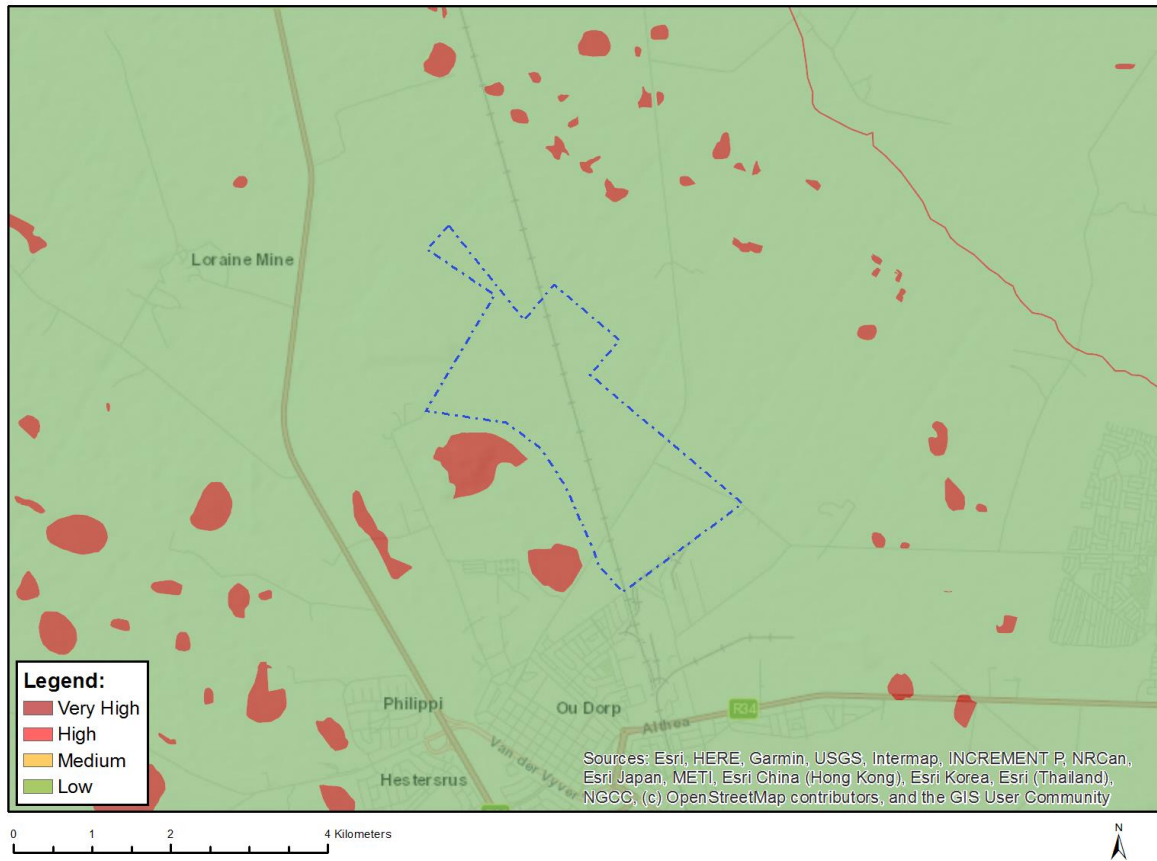
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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-Circus ranivorus
High	Aves-Hydroprogne caspia
Low	Subject to confirmation
Medium	Sensitive species 15

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

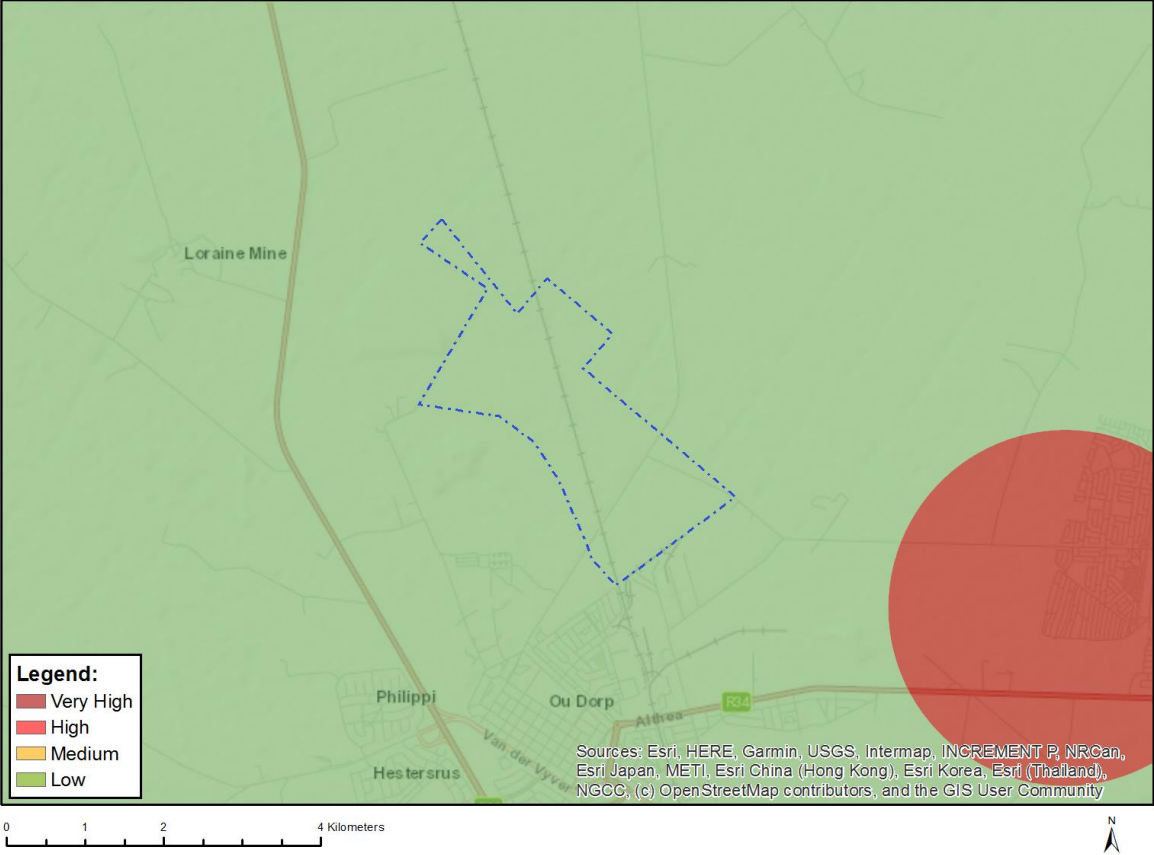


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

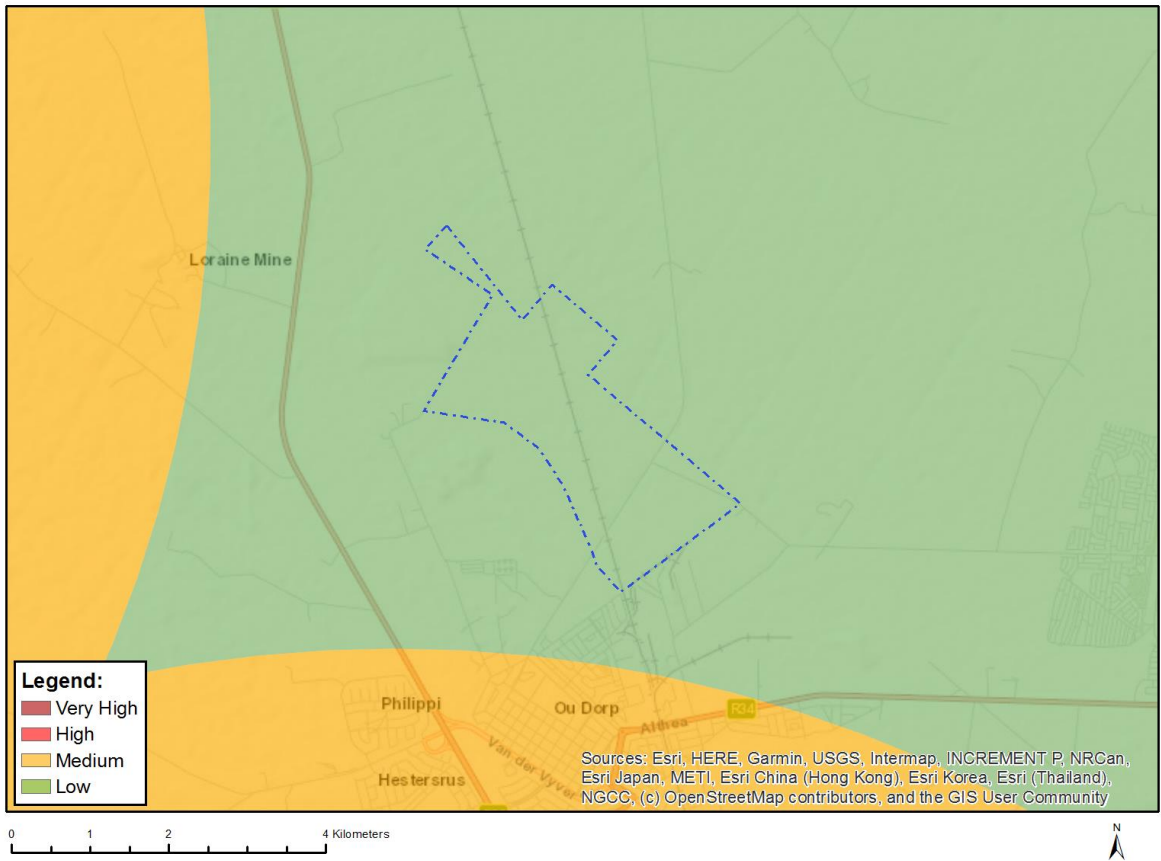


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

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

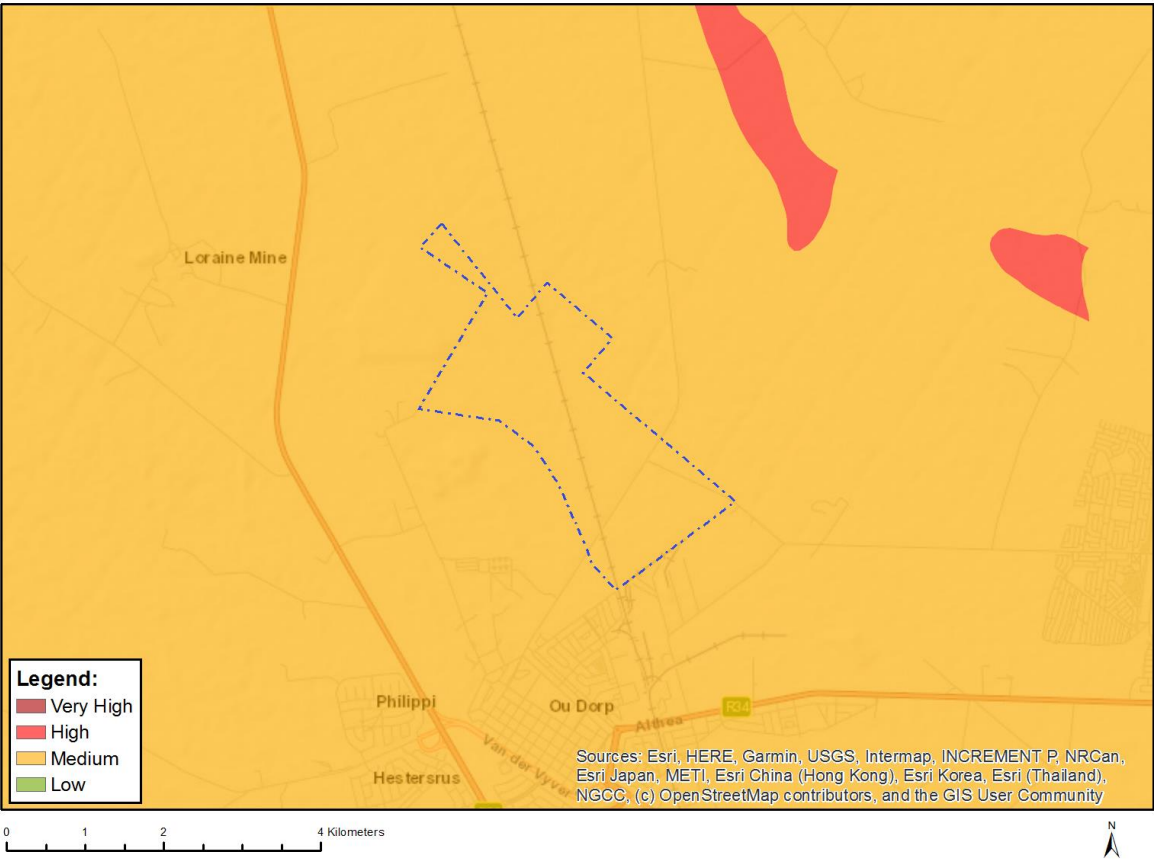


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

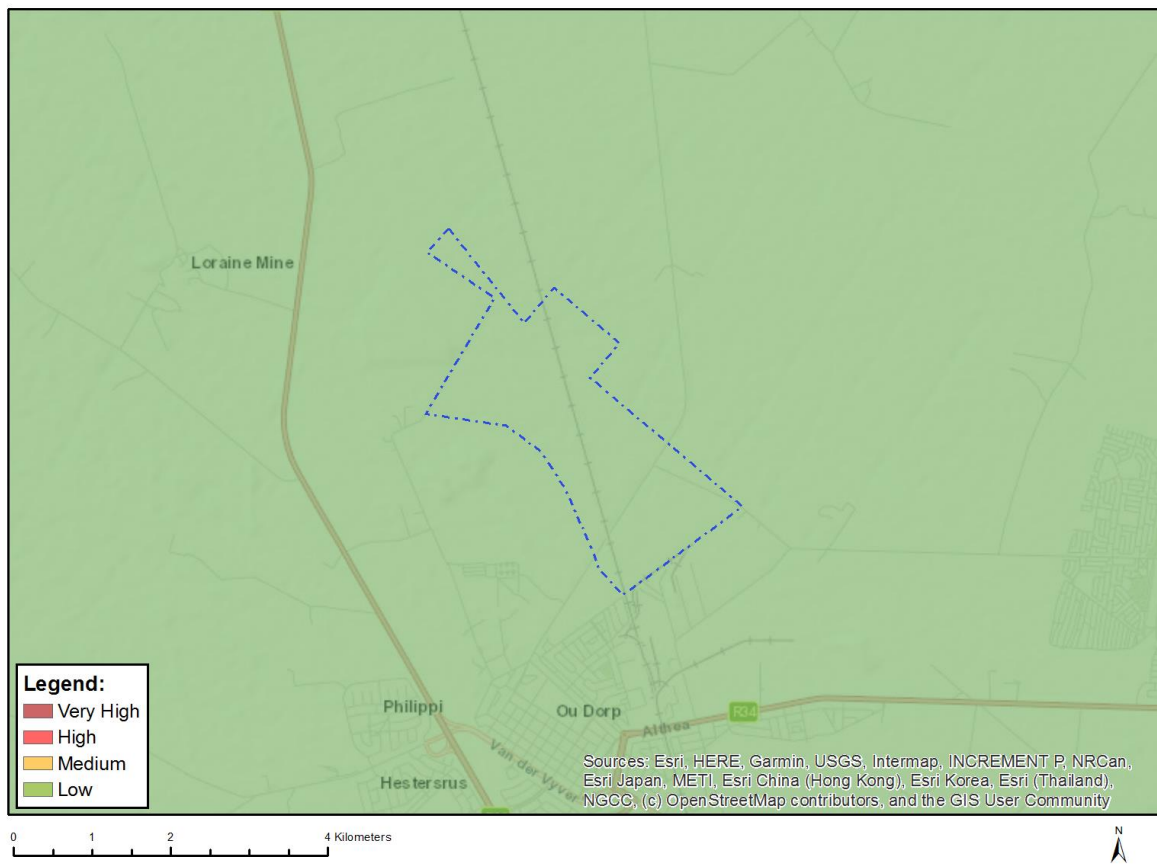


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Features with a Low paleontological sensitivity
Medium	Features with a Medium paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



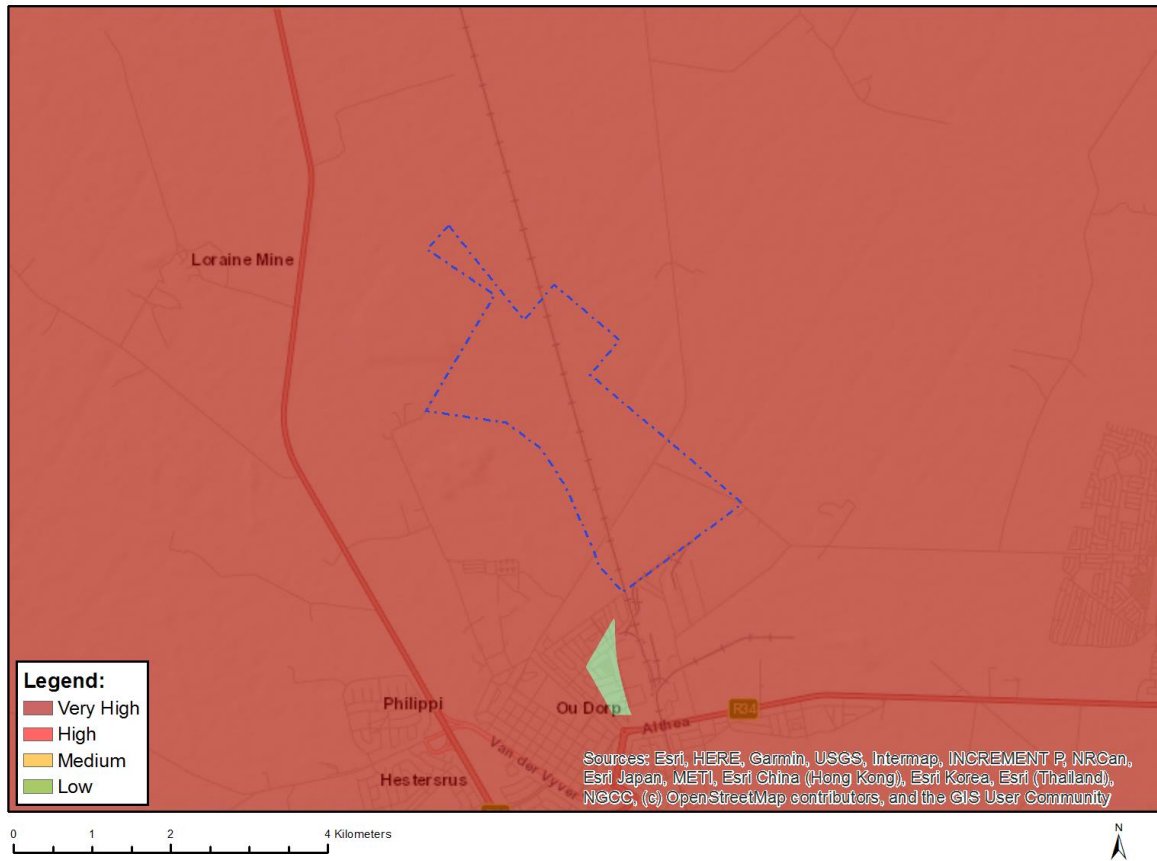
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Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

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	ESA 1
Very High	ESA 2
Very High	EN_Vaal-Vet Sandy Grassland

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

EIA Reference number: 1610

Project name: Tetra4 PR Extension BA

Project title: D North

Date screening report generated: 15/04/2024 13:17:29

Applicant: Tetra4

Compiler: EIMS

Compiler signature:
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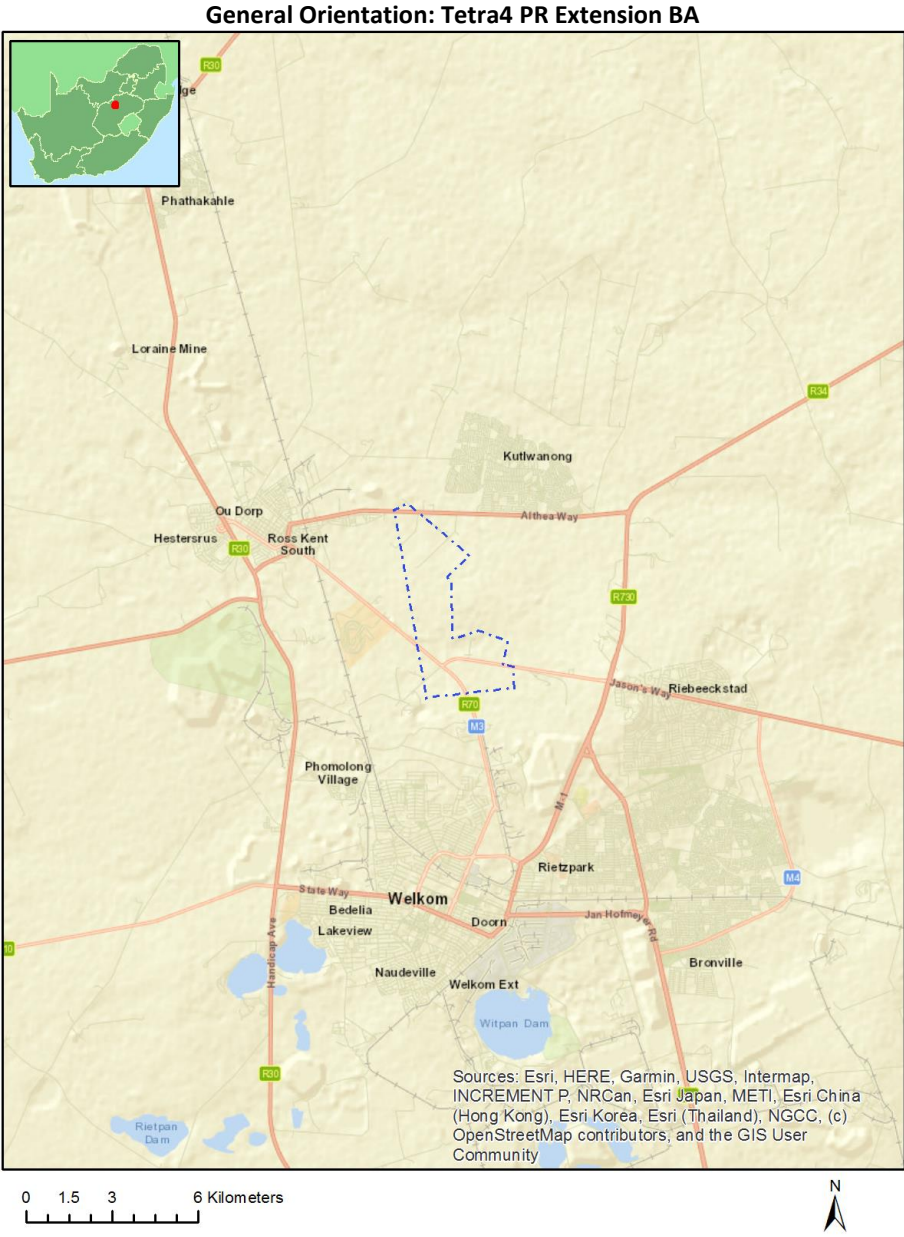
Application Category: Mining|Production Right|Gas or Oil Terrestrial

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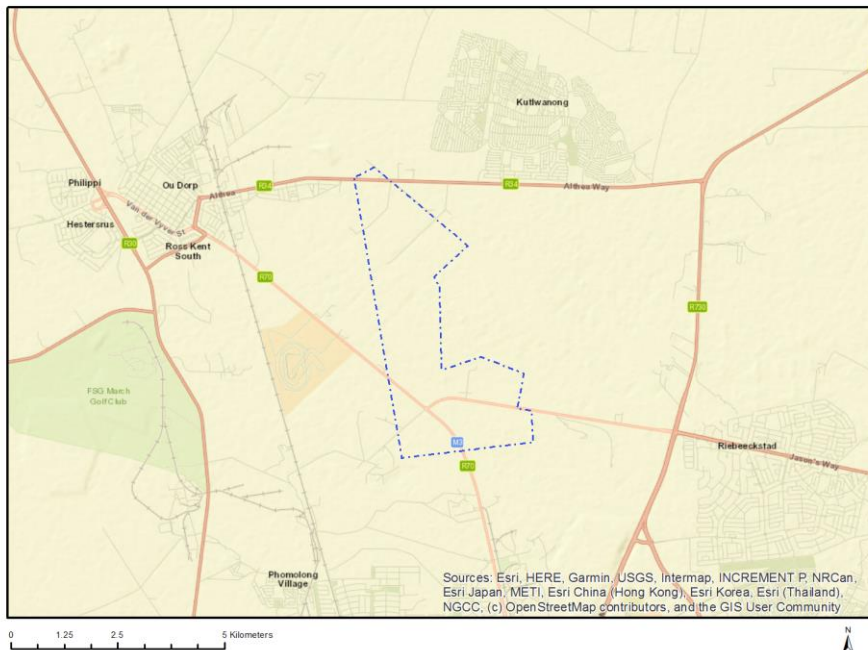
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Proposed Project Location

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	UTOPIA	108	0	27°54'11.66S	26°44'11.65E	Farm
2	DE HOOP	136	0	27°54'54.66S	26°45'21.91E	Farm
3	ARRARAT	56	0	27°55'14.18S	26°44'52.67E	Farm
4	HESTERS RUST	29	0	27°55'8.75S	26°43'26.42E	Farm
5	EVA	127	0	27°53'23.74S	26°43'13.87E	Farm
6	THELMA	104	0	27°52'38.67S	26°43'42.67E	Farm
7	HESTERS RUST	29	3	27°54'59.31S	26°43'19.98E	Farm Portion
8	THELMA	104	0	27°52'39.67S	26°43'41.89E	Farm Portion
9	HESTERS RUST	29	4	27°54'34.87S	26°43'34.65E	Farm Portion
10	EVA	127	3	27°53'21.7S	26°44'2.75E	Farm Portion
11	HESTERS RUST	29	1	27°55'25.48S	26°43'59.87E	Farm Portion
12	EVA	127	3	27°53'22.93S	26°44'2.75E	Farm Portion
13	ARRARAT	56	0	27°55'14.18S	26°44'52.67E	Farm Portion
14	DE HOOP	136	0	27°54'54.66S	26°45'21.91E	Farm Portion
15	UTOPIA	108	0	27°54'11.58S	26°44'15.66E	Farm Portion

Development footprint¹ vertices:
No development footprint(s) specified.

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.

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	14/12/16/3/3/2/2219	Solar PV	Approved	9.1
2	14/12/16/3/3/1/1471	Solar PV	Approved	2
3	14/12/16/3/3/1/1471/AM1	Solar PV	Approved	2
4	14/12/16/3/3/2/2218	Solar PV	Approved	7.1
5	14/12/16/3/3/1/644/AM1	Solar PV	Approved	15.4
6	14/12/16/3/3/2/376/2	Solar PV	Approved	15.4
7	14/12/16/3/3/2/376/1	Solar PV	Approved	15.4
8	14/12/16/3/3/2/2233	Solar PV	Approved	22.3
9	14/12/16/3/3/2/512	Solar PV	Approved	23.6
10	14/12/16/3/3/2/2091	Solar PV	Approved	0.6
11	12/12/20/2669	Solar PV	Approved	27.7
12	14/12/16/3/3/2/2220	Solar PV	Approved	6.8
13	14/12/16/3/3/1/1444	Solar PV	Approved	0
14	14/12/16/3/3/1/2410	Solar PV	Approved	0.6
15	14/12/16/3/3/1/644	Solar PV	Approved	15.4
16	14/12/16/3/3/2/376/AM2	Solar PV	Approved	15.4
17	14/12/16/3/3/1/2499	Solar PV	Approved	15.4
18	12/12/20/2669/A	Solar PV	Approved	27.7
19	14/12/16/3/3/2/2221	Solar PV	Approved	11.4
20	14/12/16/3/3/2/376/2/AM6	Solar PV	Approved	15.4
21	14/12/16/3/3/2/2230	Solar PV	Approved	28.2
22	14/12/16/3/3/1/1472	Solar PV	Approved	2

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:

Mining | Production Right | Gas or Oil Terrestrial.

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 Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf
Main Electricity	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf

Distribution Substation	tZones/Distribution_Transmission.pdf
-------------------------	--

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.

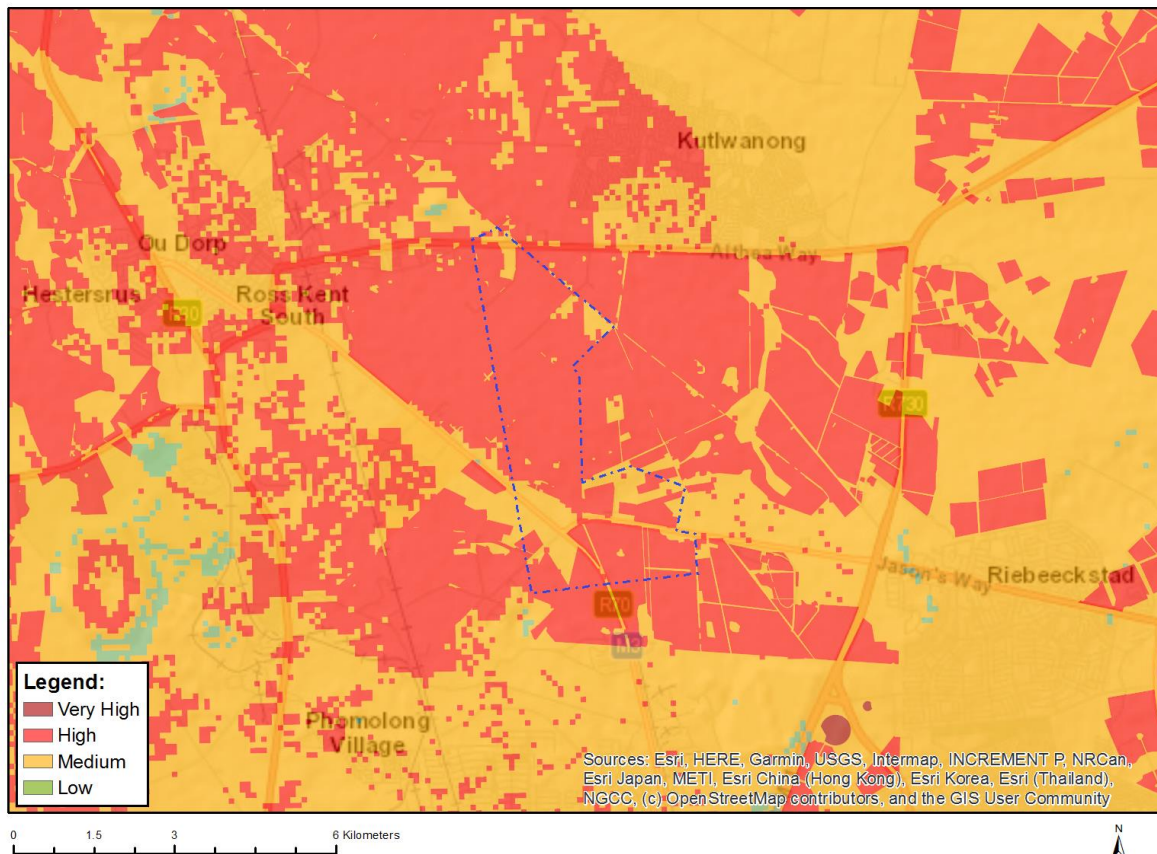
No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.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 Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
7	Hydrology Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Hydrology_Assessment_Protocols.pdf

		ssmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
9	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Noise_Impacts_Assessment_Protocol.pdf
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
11	Health Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
12	Ambient Air Quality Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
13	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
14	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

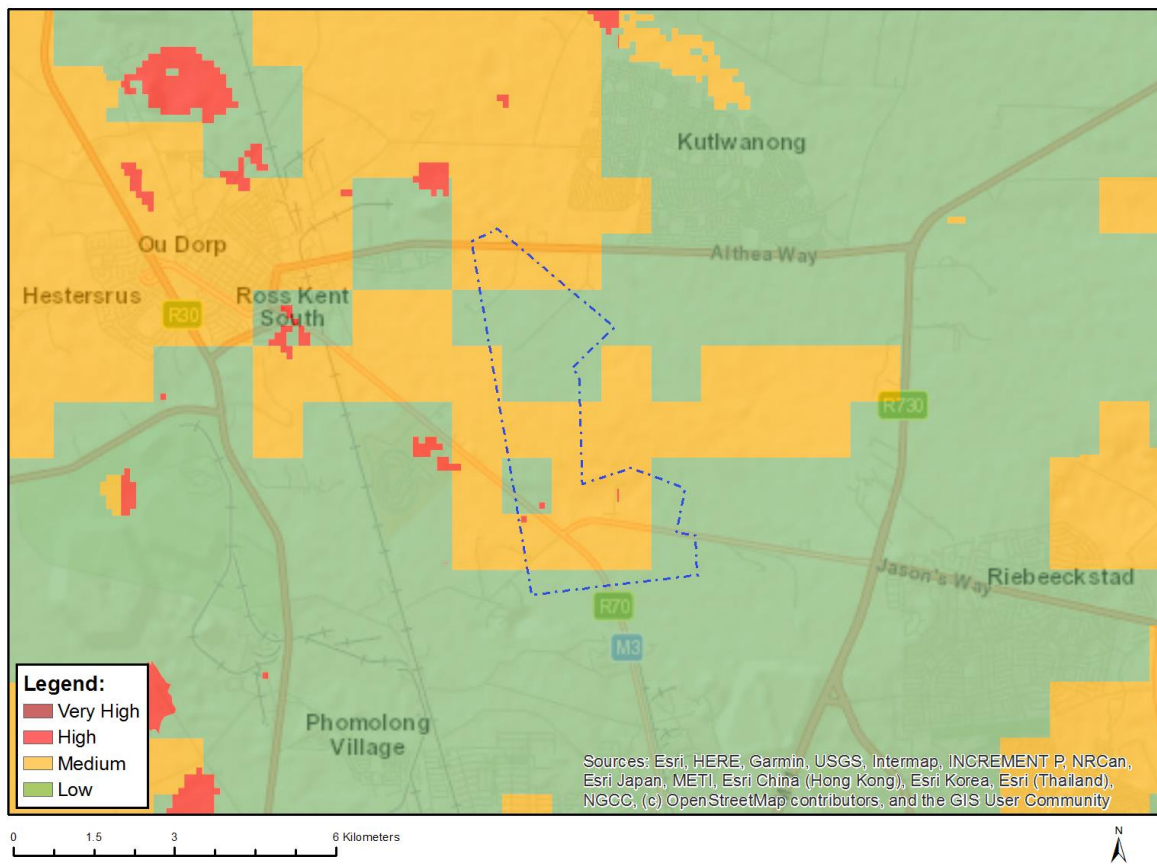


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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	Old Fields;Land capability;09. Moderate-High/10. Moderate-High
High	Old Fields;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



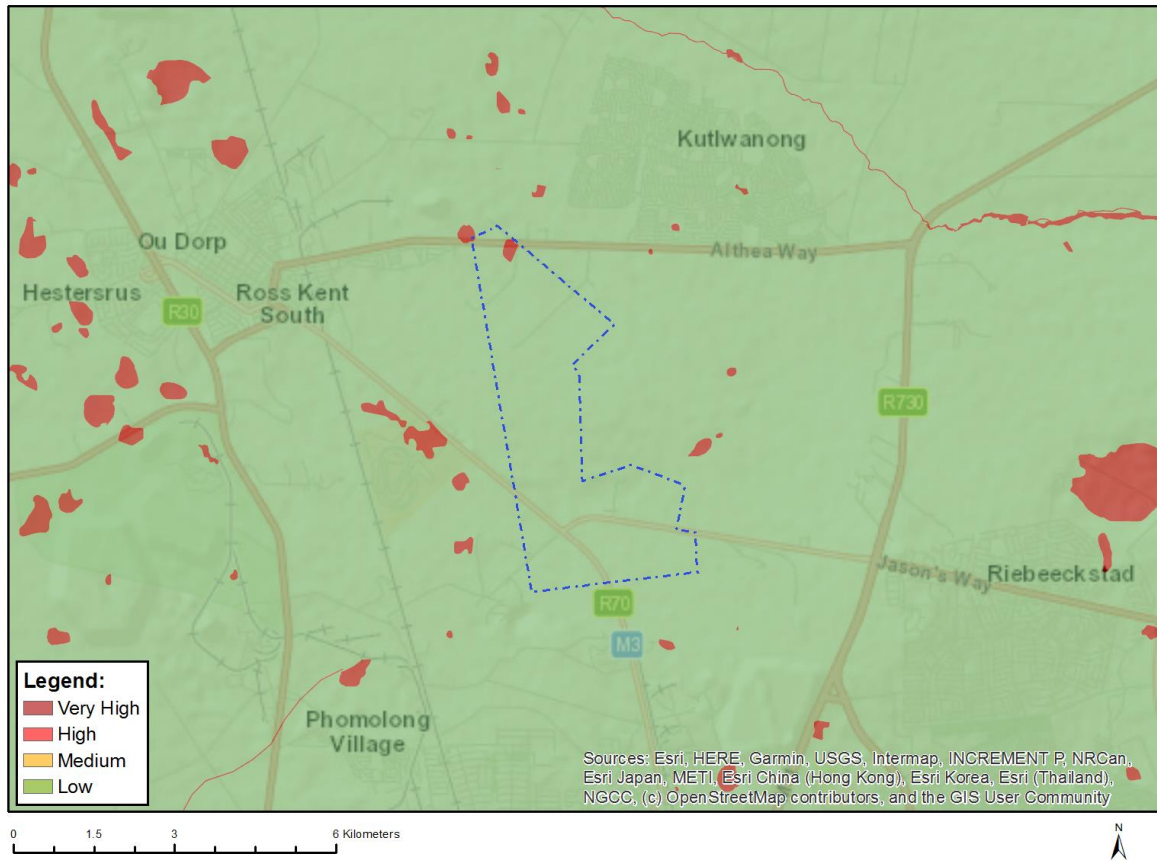
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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-Hydroprogne caspia
Low	Subject to confirmation
Medium	Aves-Circus ranivorus
Medium	Aves-Hydroprogne caspia
Medium	Mammalia-Hydrictis maculicollis
Medium	Sensitive species 15

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

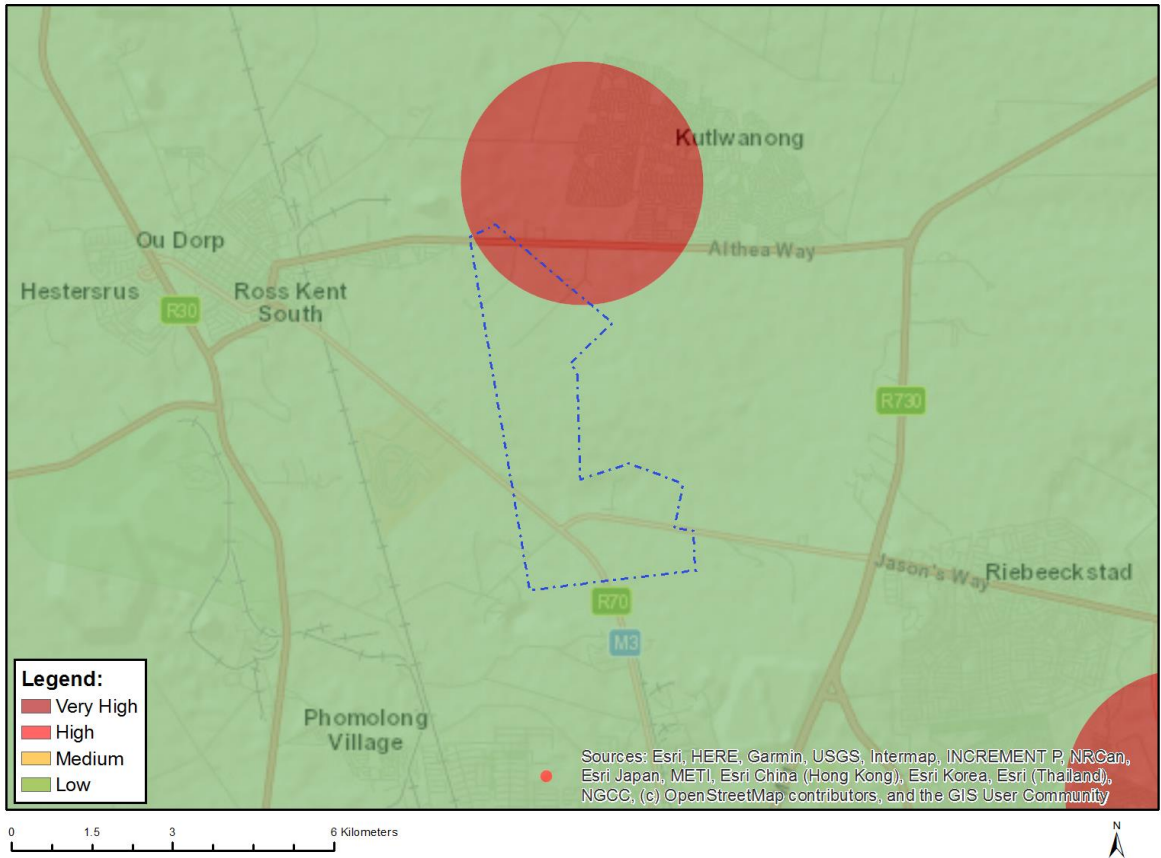


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Wetlands_Dry Highveld Grassland Bioregion (Depression)
Very High	Wetlands_Dry Highveld Grassland Bioregion (Seep)

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

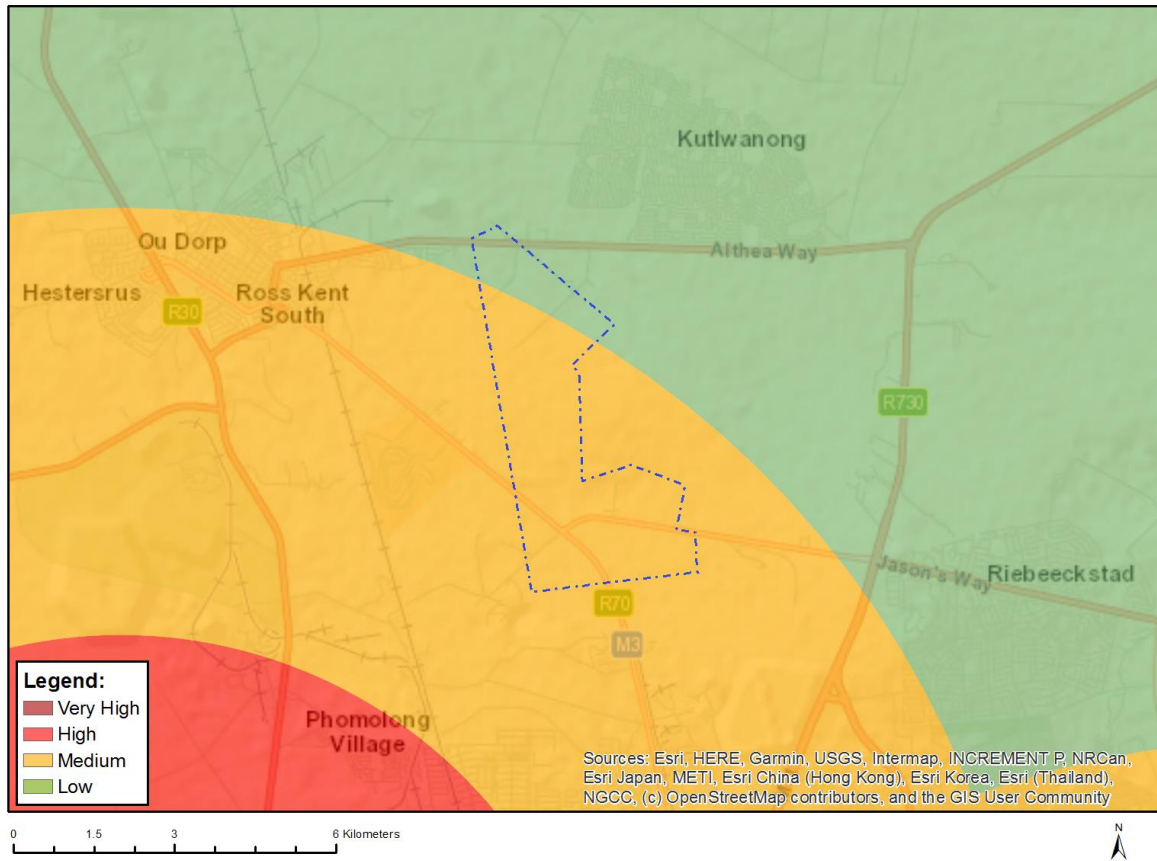


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

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

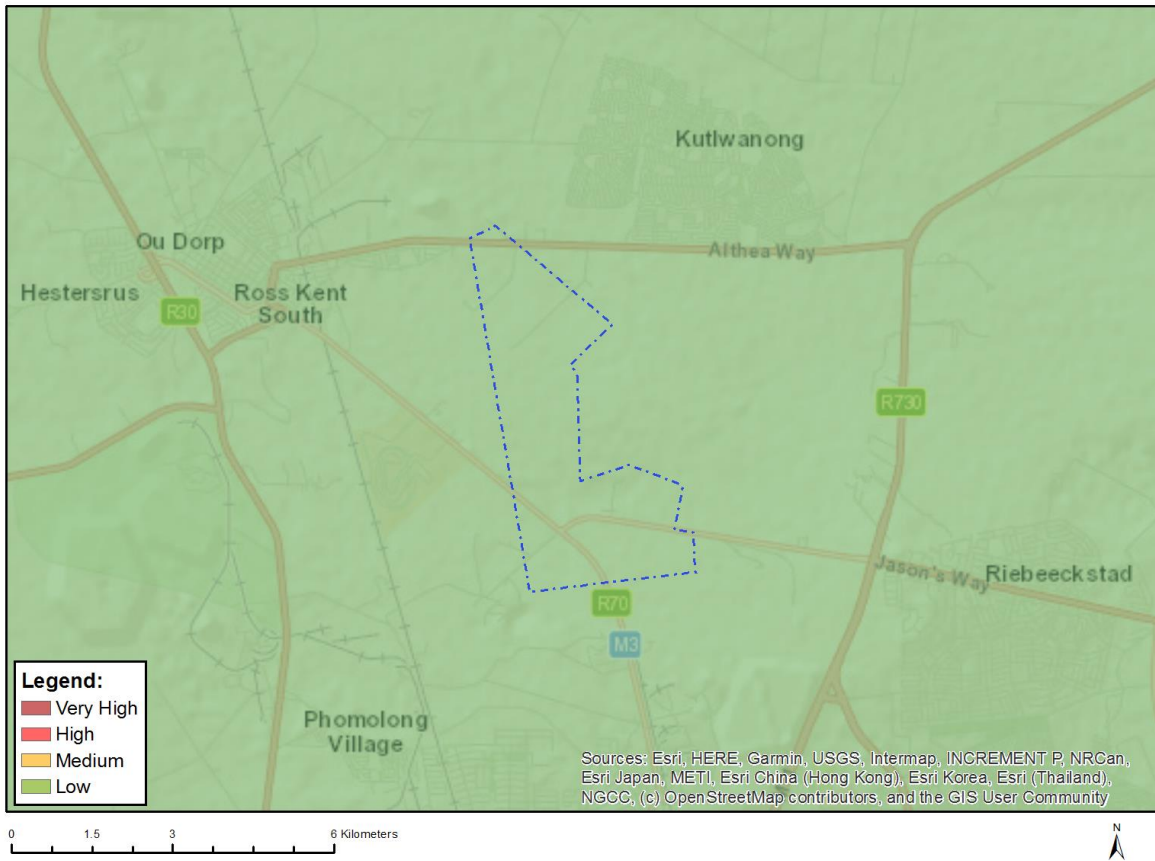


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

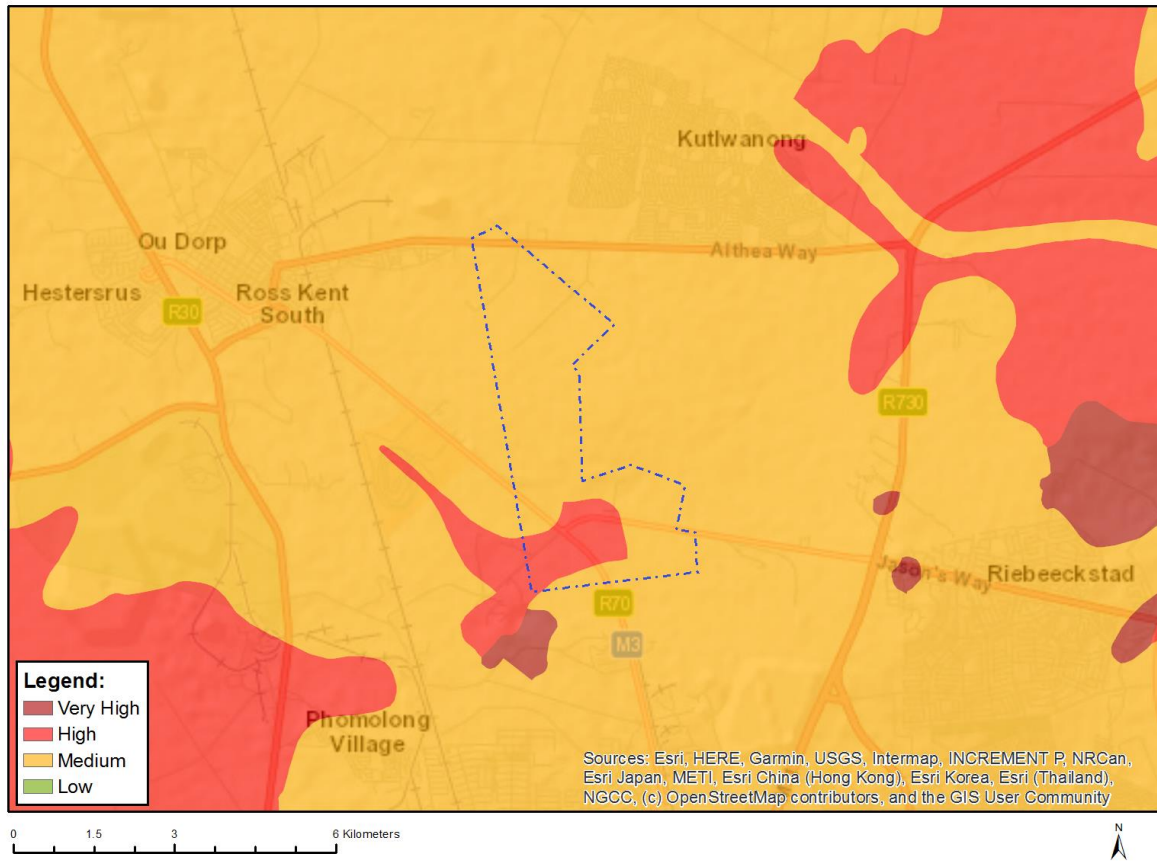


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

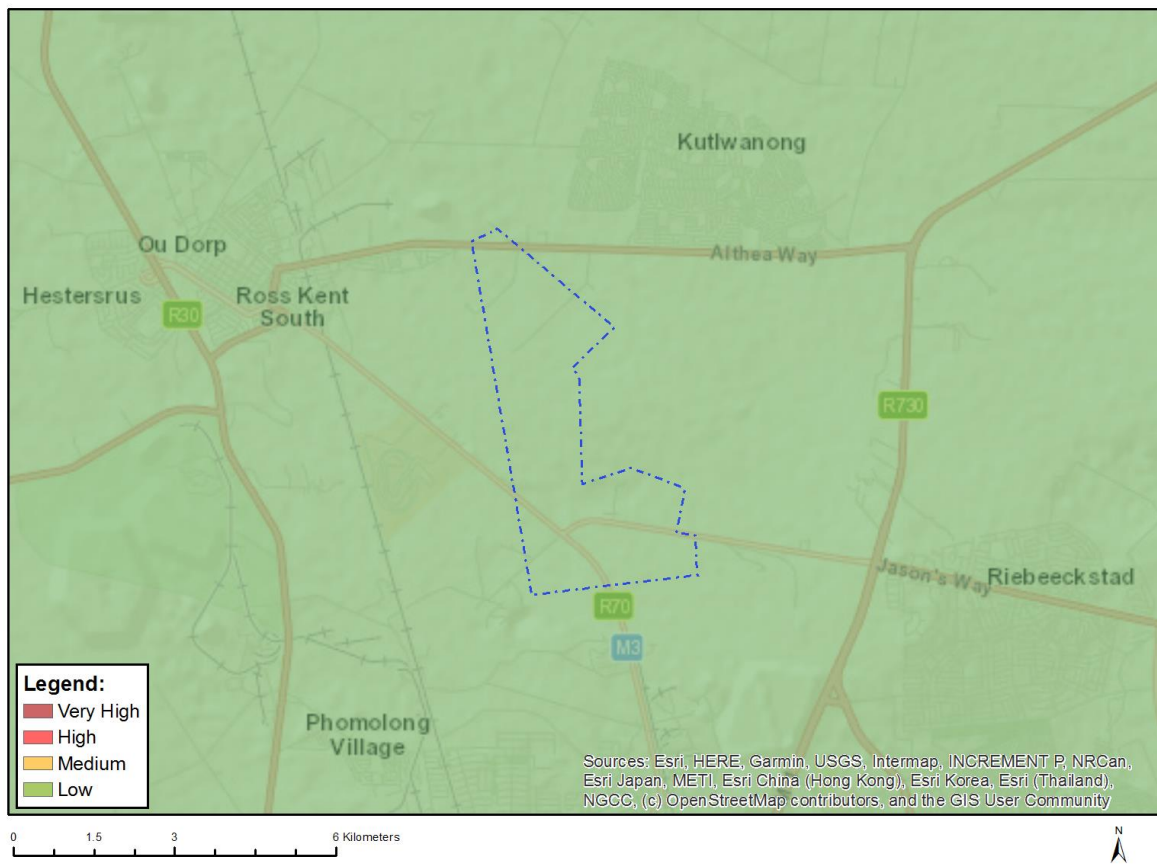


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



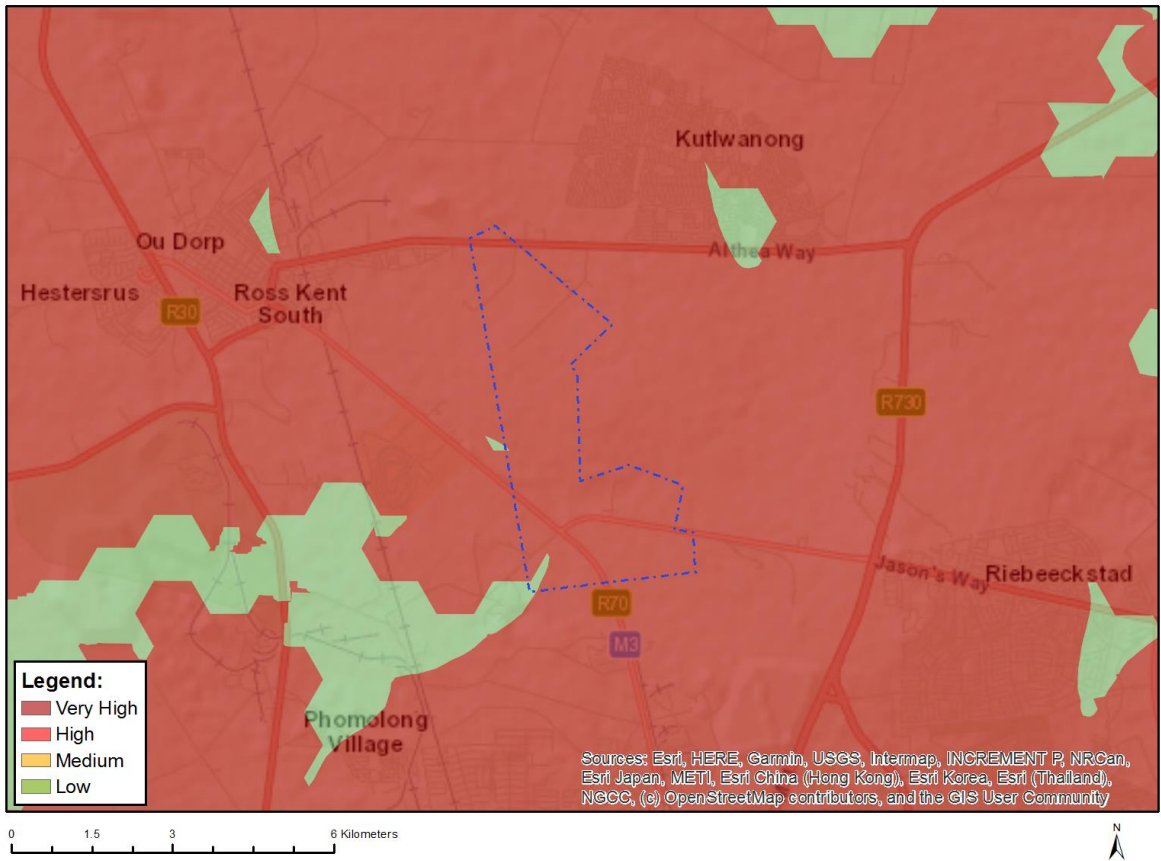
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their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

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	CBA 1
Very High	ESA 1
Very High	ESA 2
Very High	EN_Vaal-Vet Sandy Grassland

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

EIA Reference number: 1610

Project name: Tetra4 PR Extension BA

Project title: North E

Date screening report generated: 15/04/2024 13:32:29

Applicant: Tetra4

Compiler: EIMS

Compiler signature:

.....

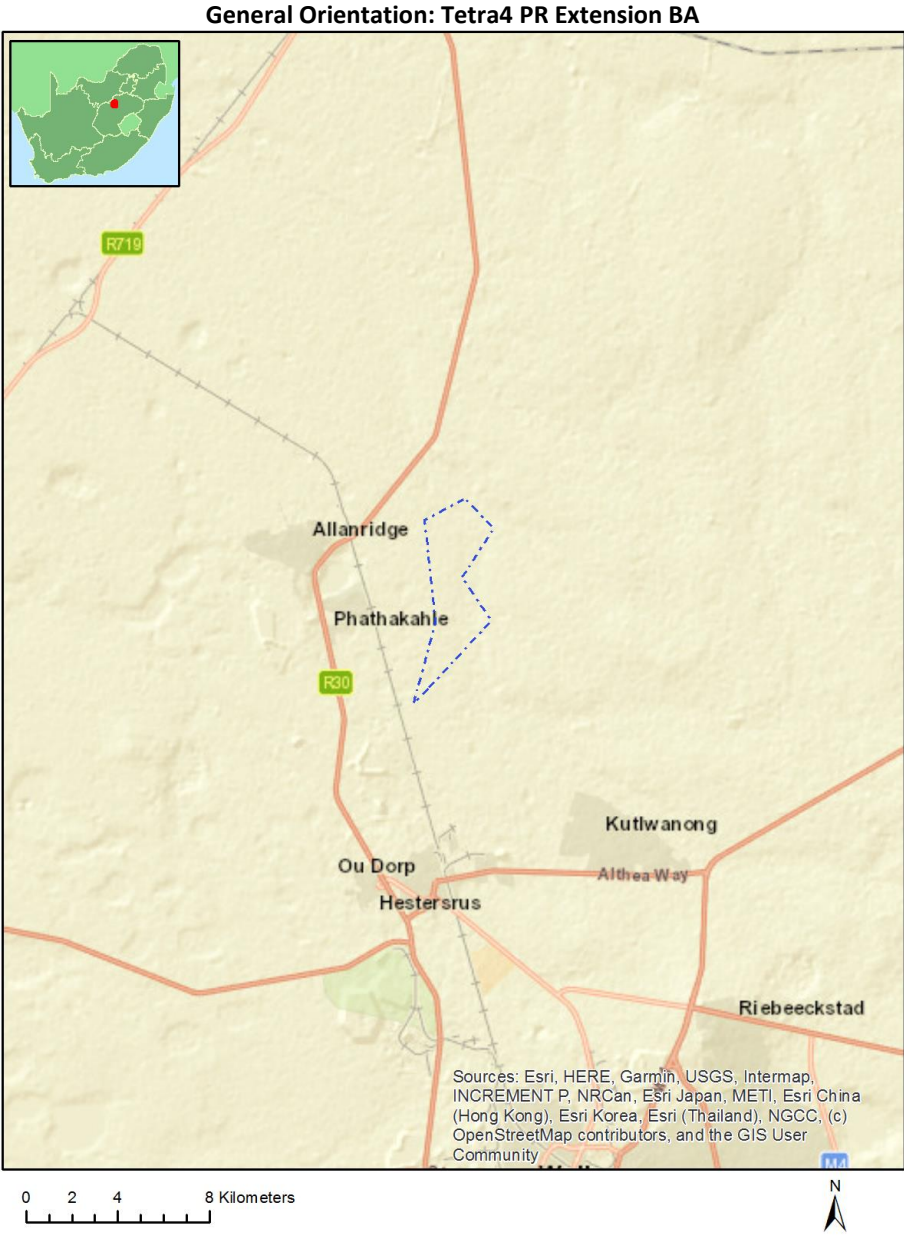
Application Category: Mining|Production Right|Gas or Oil Terrestrial

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Map of proposed site and relevant area(s)	4
Cadastral details of the proposed site	4
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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	HELDENMOET	117	0	27°45'26.69S	26°40'49.02E	Farm
2	JEANNETTE	371	0	27°47'28.76S	26°41'40.75E	Farm
3	RUSTOORD	33	0	27°44'46.25S	26°40'44.16E	Farm
4	DE ERF	140	0	27°46'44.03S	26°41'39.33E	Farm
5	WESSELSRUST	58	0	27°47'45.56S	26°40'29.12E	Farm
6	MARTINA	226	0	27°46'5.84S	26°41'39.58E	Farm
7	VRIENDSKAP	234	0	27°45'7.35S	26°42'9.26E	Farm
8	ZOETEN INVAL	268	0	27°45'50.96S	26°40'56.69E	Farm
9	WESSELSRUST	58	0	27°47'45.03S	26°40'29.24E	Farm Portion
10	JEANNETTE	371	0	27°47'28.76S	26°41'40.75E	Farm Portion
11	ZOETEN INVAL	268	0	27°45'52S	26°40'55.23E	Farm Portion
12	VRIENDSKAP	234	0	27°45'7.35S	26°42'9.26E	Farm Portion
13	MARTINA	226	0	27°46'5.84S	26°41'39.58E	Farm Portion
14	DE ERF	140	3	27°46'56.68S	26°41'43.43E	Farm Portion
15	HELDENMOET	117	0	27°45'27.11S	26°40'50.49E	Farm Portion
16	DE ERF	140	0	27°46'44.03S	26°41'39.34E	Farm Portion
17	RUSTOORD	33	0	27°44'46.25S	26°40'44.16E	Farm Portion

Development footprint¹ vertices:
No development footprint(s) specified.

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.

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	14/12/16/3/3/2/2219	Solar PV	Approved	19.3
2	14/12/16/3/3/1/1471	Solar PV	Approved	12.1
3	14/12/16/3/3/1/1471/AM1	Solar PV	Approved	12.1
4	14/12/16/3/3/2/2218	Solar PV	Approved	18.6
5	14/12/16/3/3/3/1/644/AM1	Solar PV	Approved	5.8
6	14/12/16/3/3/2/376/2	Solar PV	Approved	5.8
7	14/12/16/3/3/2/376/1	Solar PV	Approved	5.8
8	14/12/16/3/3/2/2091	Solar PV	Approved	2.3
9	14/12/16/3/3/2/2220	Solar PV	Approved	18.6
10	14/12/16/3/3/1/1444	Solar PV	Approved	6.4
11	14/12/16/3/3/1/2410	Solar PV	Approved	0
12	14/12/16/3/3/3/1/644	Solar PV	Approved	5.8
13	14/12/16/3/3/2/376/AM2	Solar PV	Approved	5.8
14	14/12/16/3/3/1/2499	Solar PV	Approved	5.8
15	14/12/16/3/3/2/2221	Solar PV	Approved	19.7
16	14/12/16/3/3/2/376/2/AM6	Solar PV	Approved	5.8
17	14/12/16/3/3/1/1472	Solar PV	Approved	10.5

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 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:

Mining | Production Right | Gas or Oil Terrestrial.

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 Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf

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.

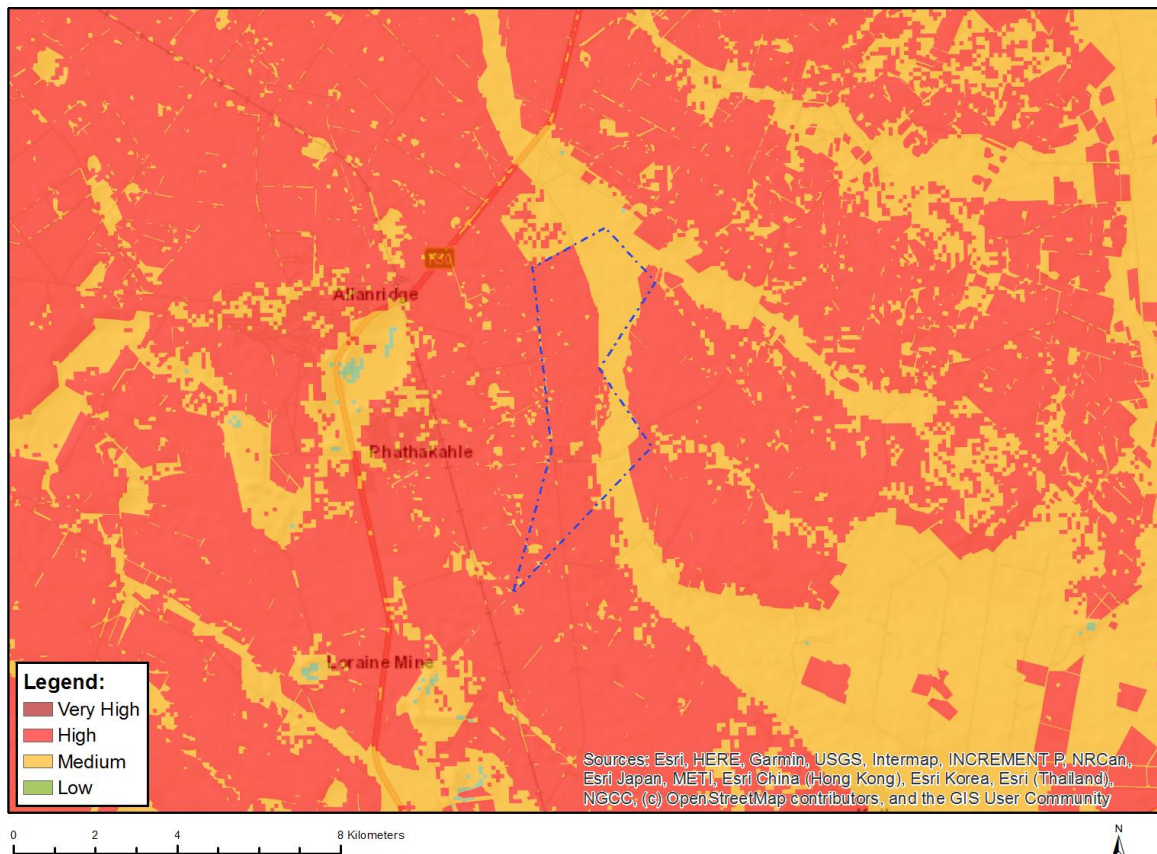
No	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Landscape/Visual Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.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 Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
7	Hydrology Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf

		ssmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
9	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Noise_Impacts_Assessment_Protocol.pdf
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
11	Health Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
12	Ambient Air Quality Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
13	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
14	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

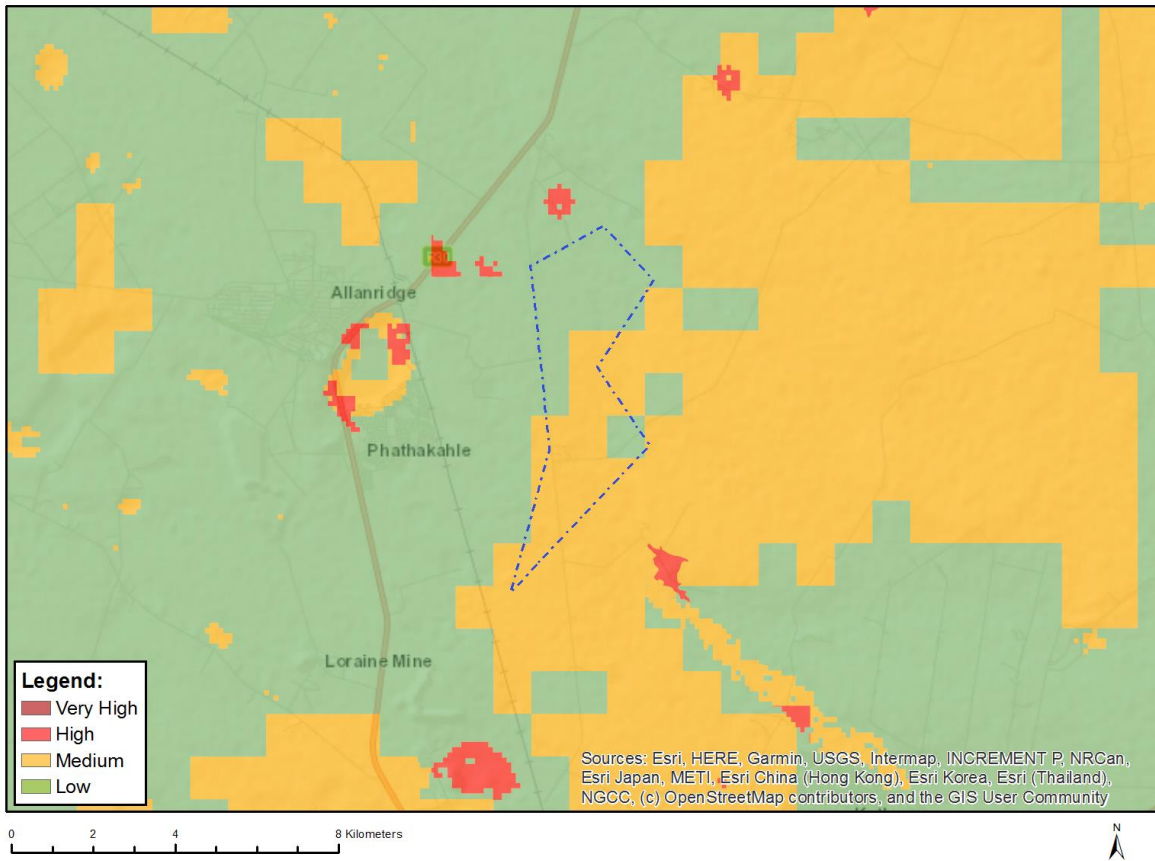


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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	Old Fields;Land capability;09. Moderate-High/10. Moderate-High
High	Old Fields;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



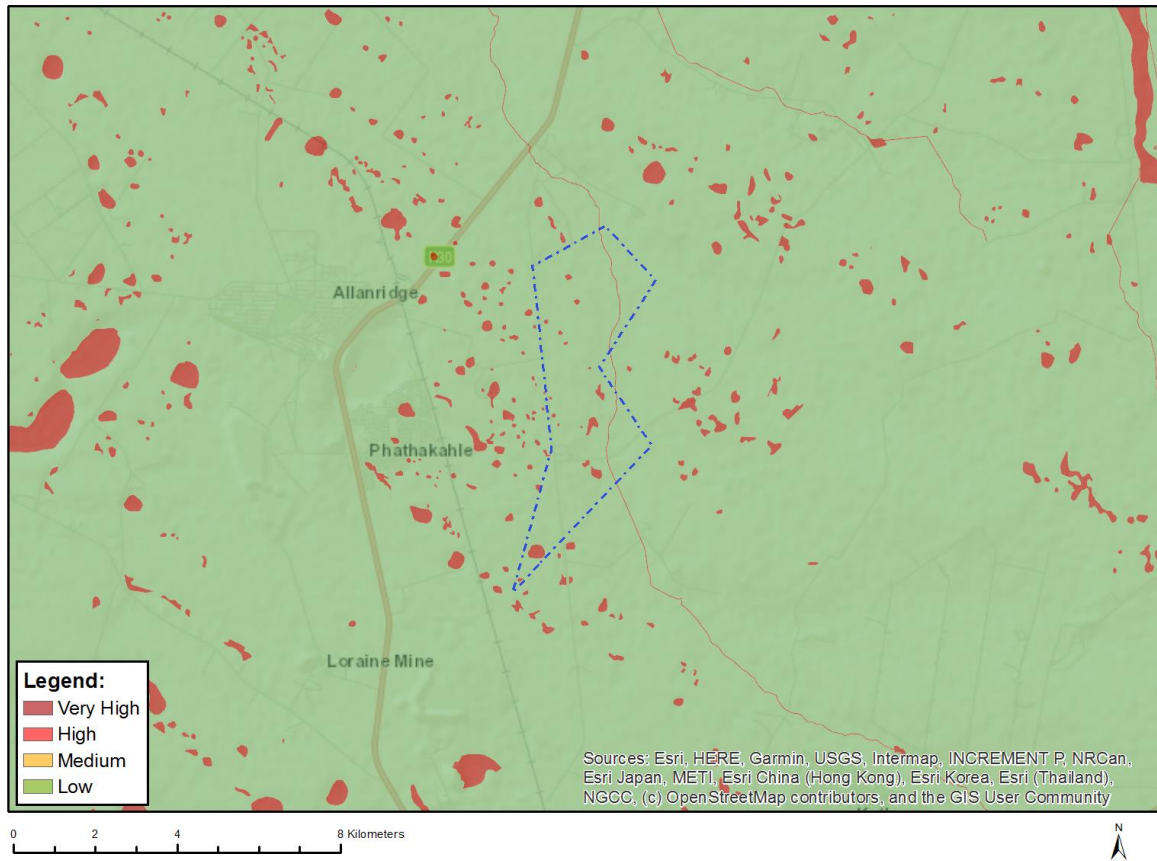
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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	Sensitive species 15

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

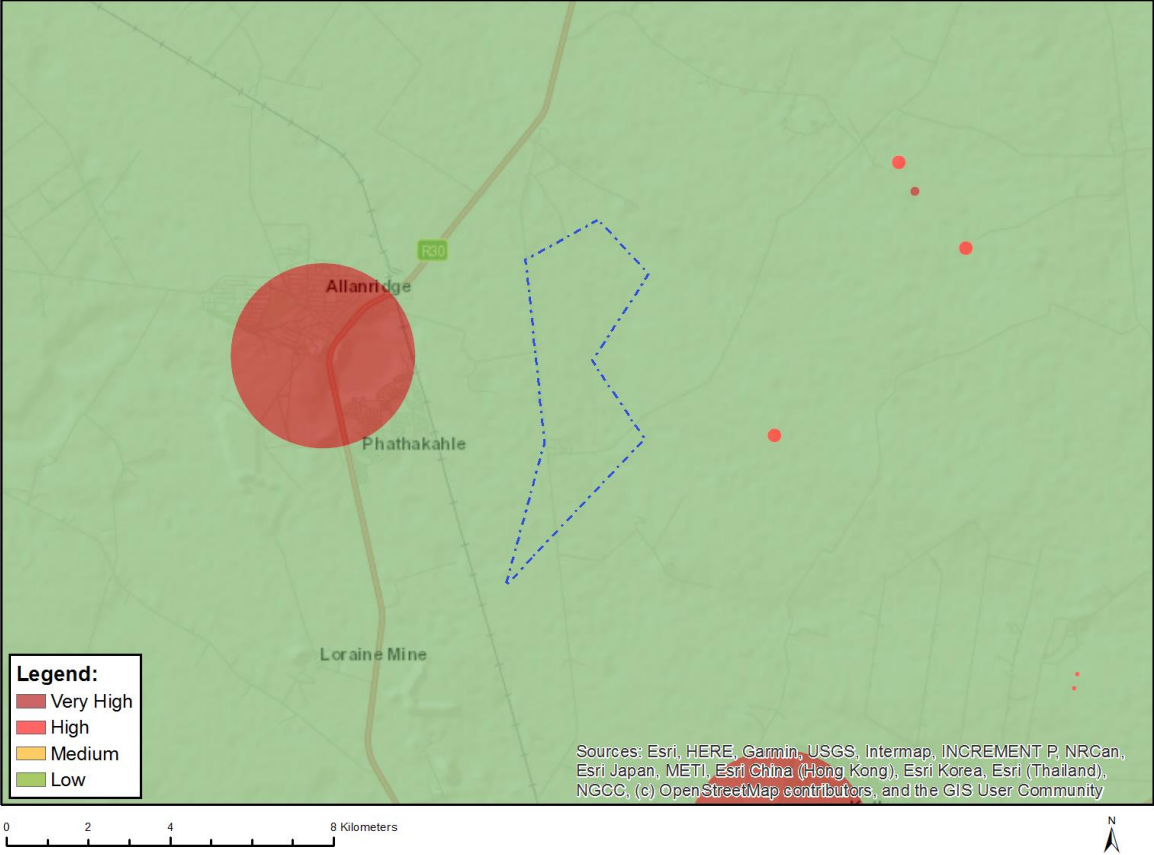


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Rivers_C
Very High	Wetlands_Dry Highveld Grassland Bioregion (Depression)

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

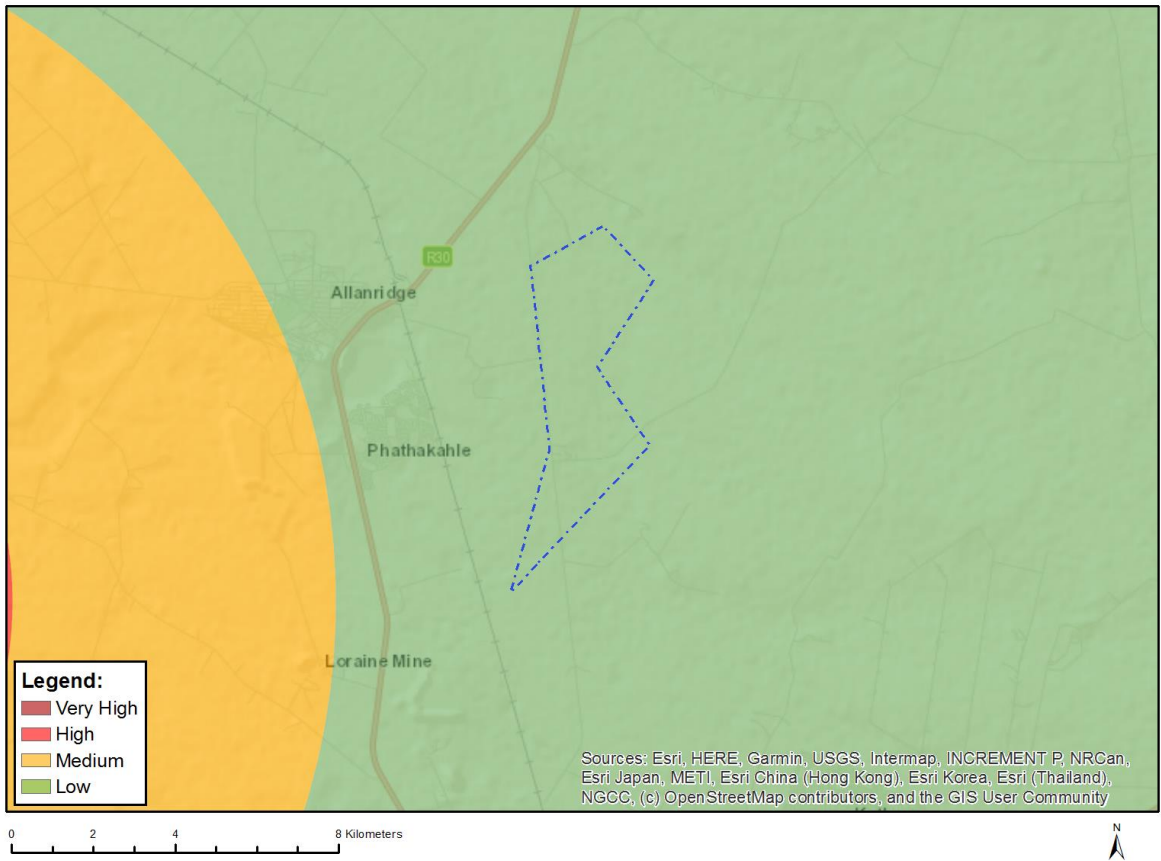


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

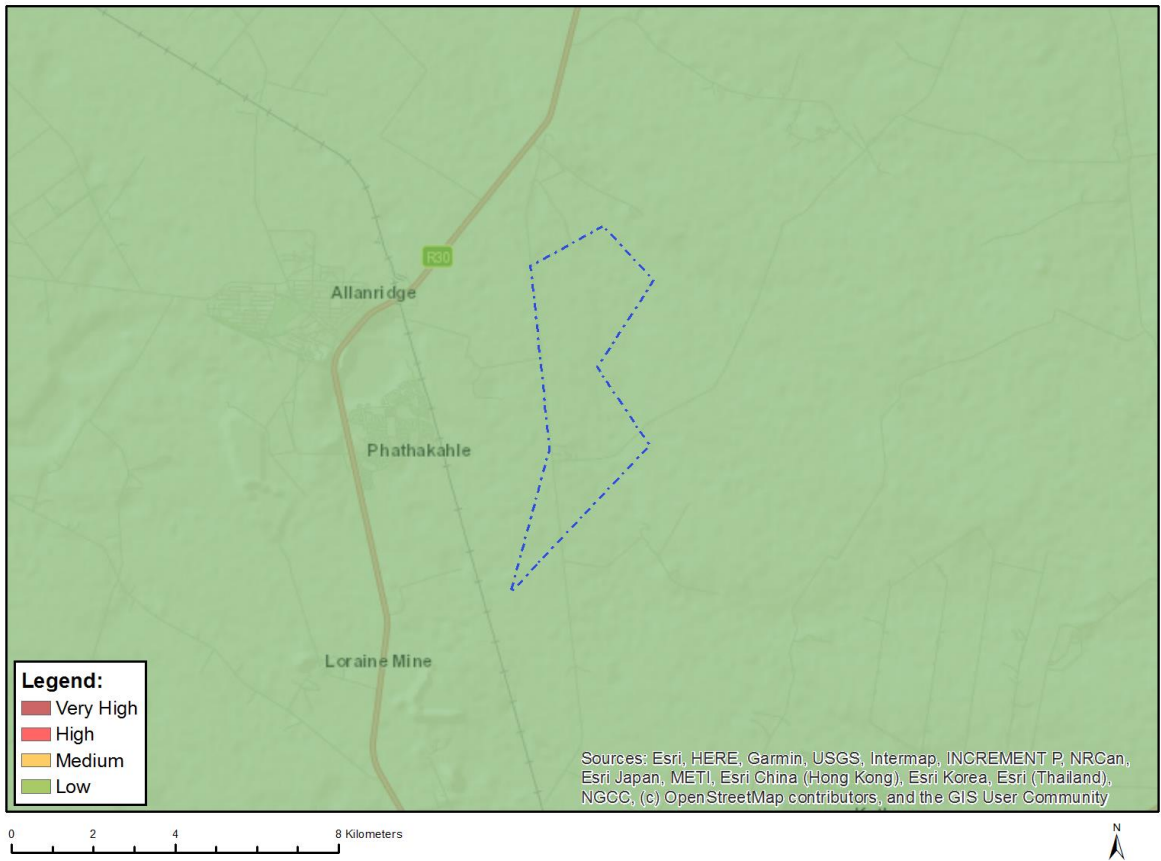


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

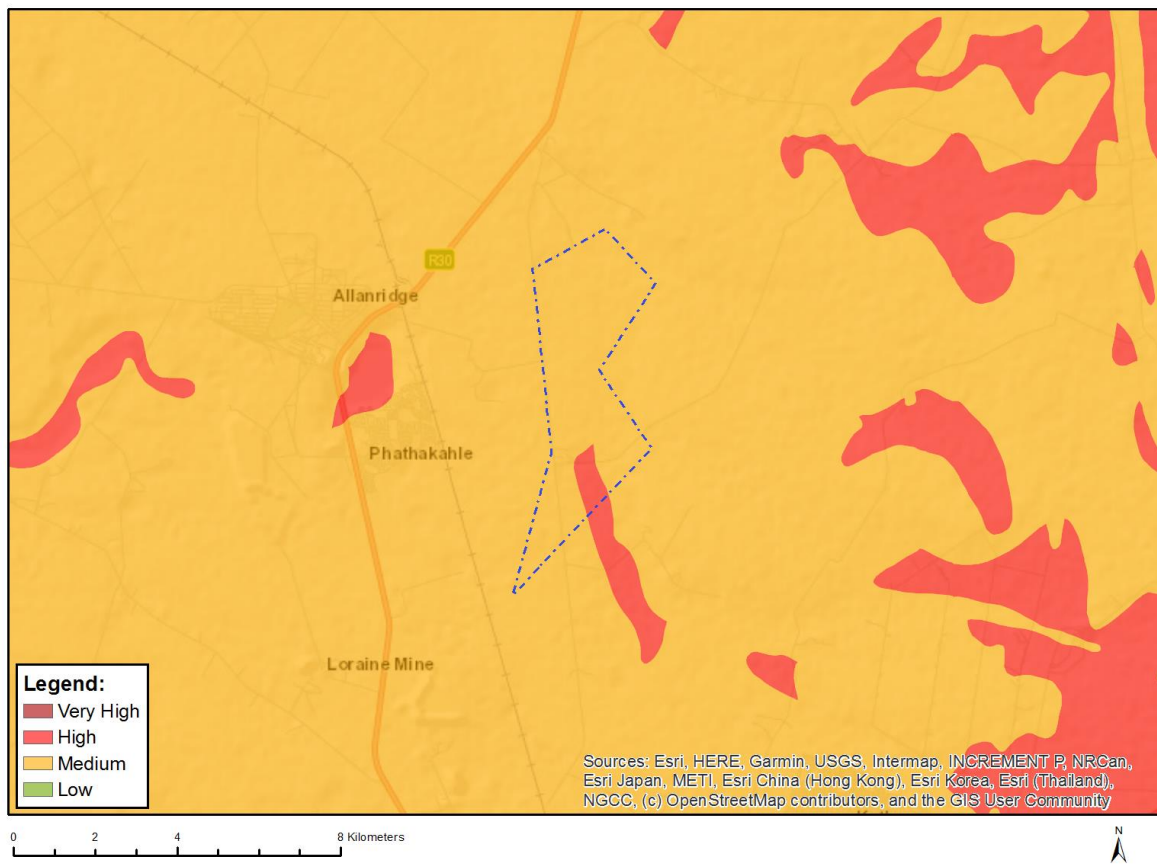


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

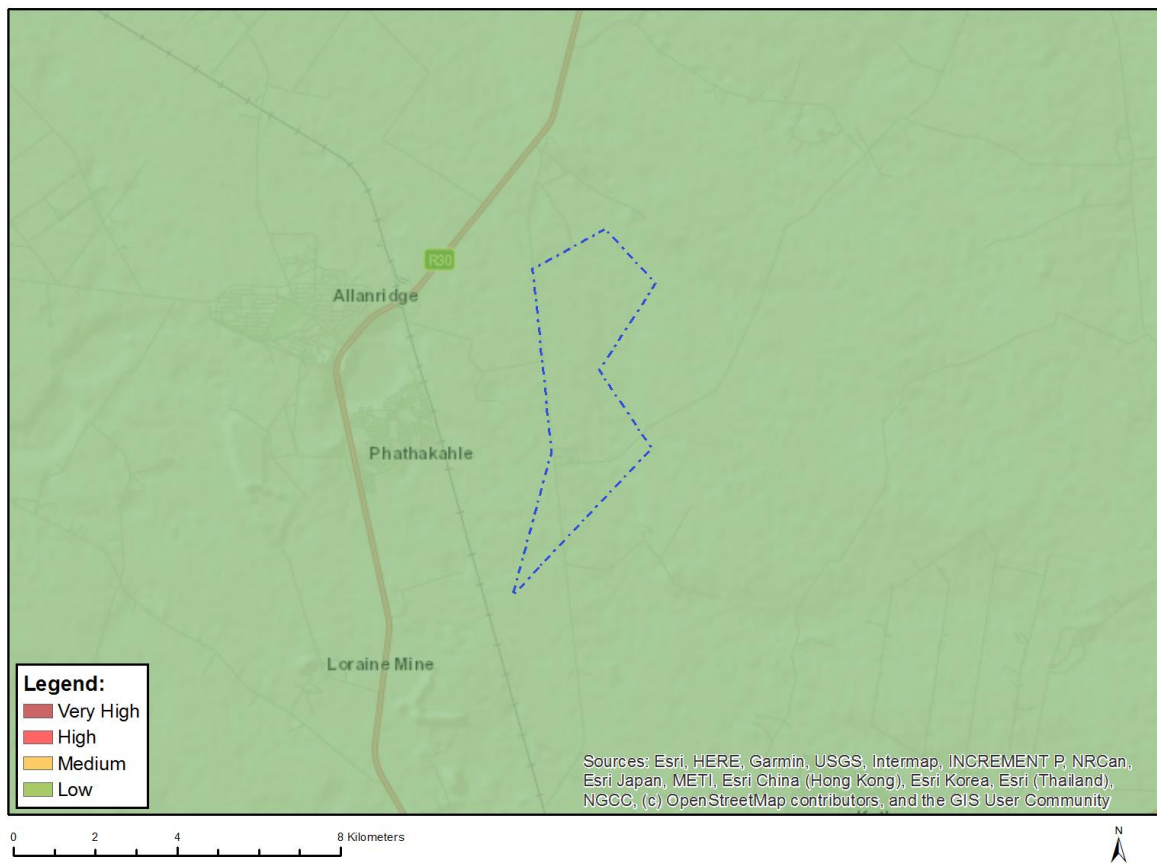


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



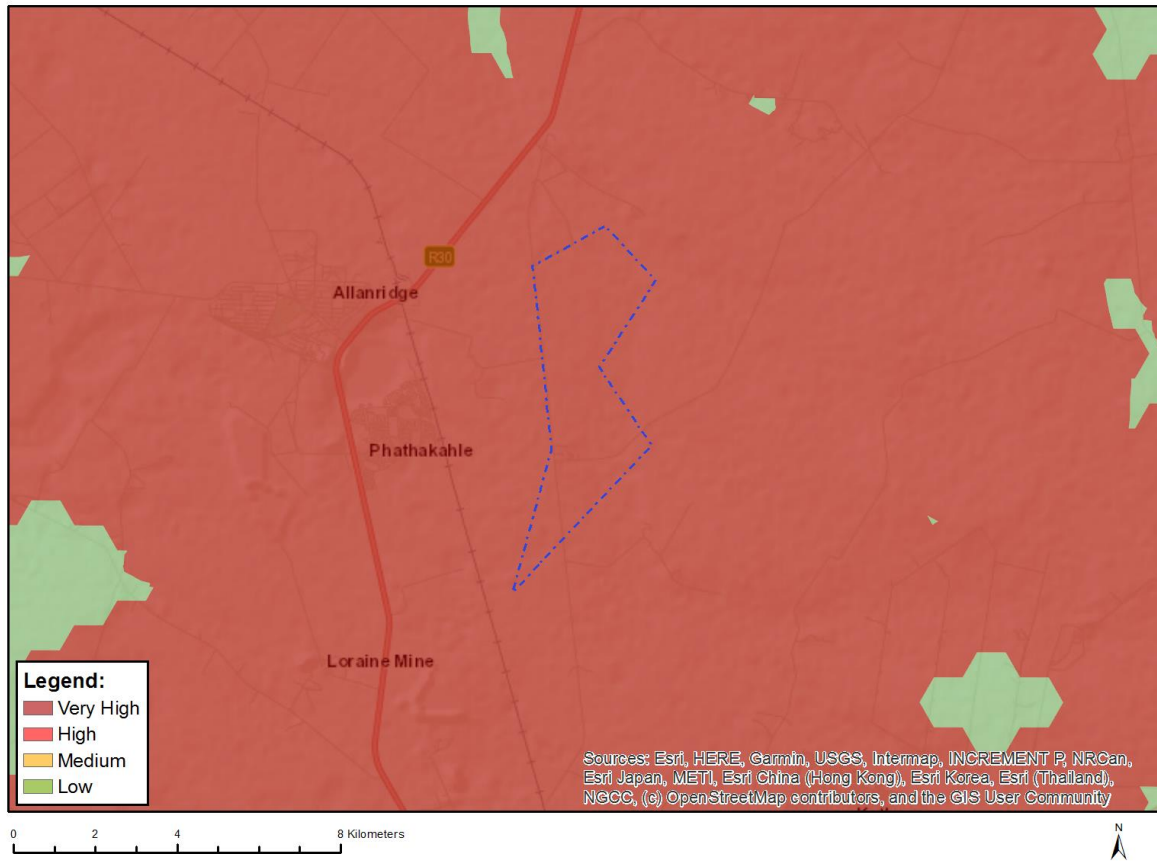
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their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

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	EN_Vaal-Vet Sandy Grassland

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

EIA Reference number: 1610

Project name: Tetra4 PR Extension BA

Project title: F North

Date screening report generated: 15/04/2024 13:51:54

Applicant: Tetra4

Compiler: EIMS

Compiler signature:
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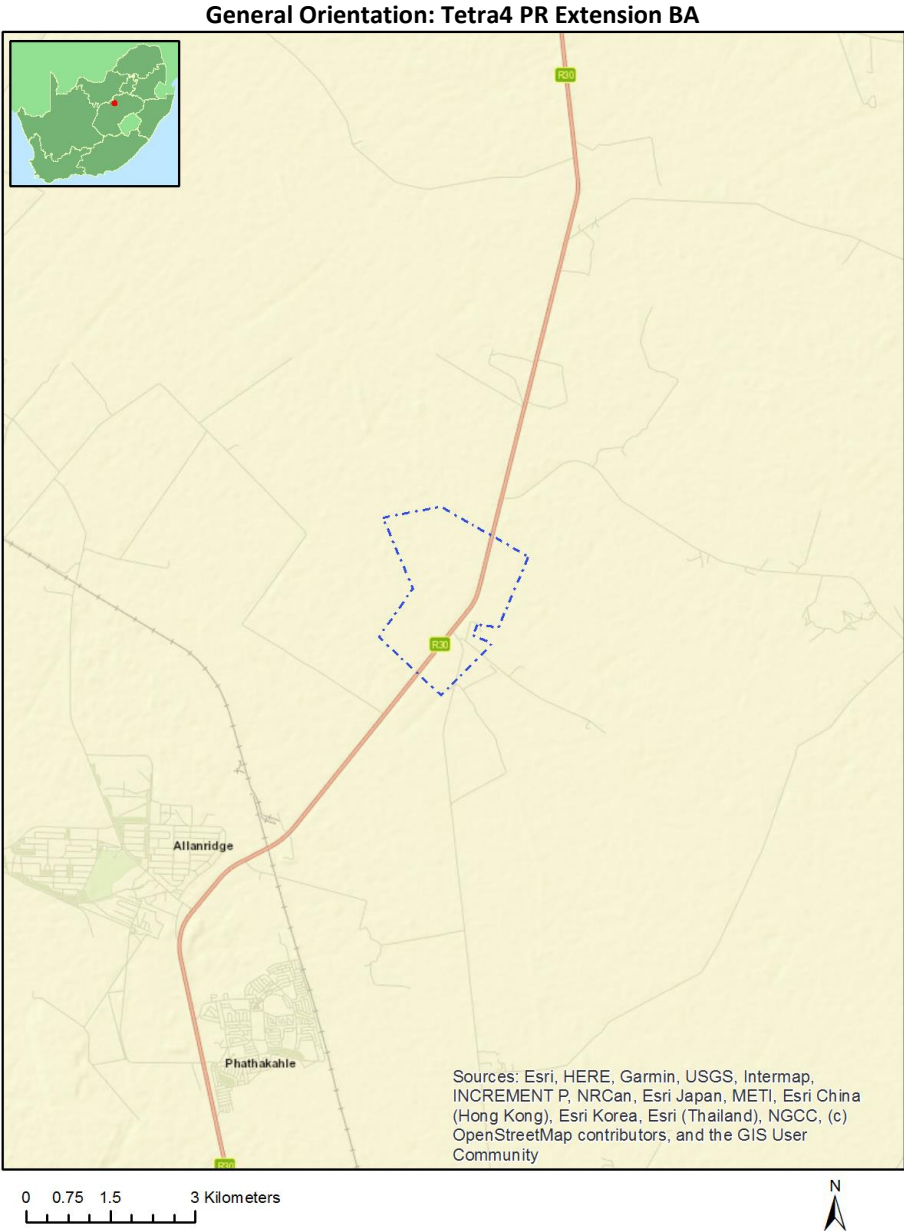
Application Category: Mining|Production Right|Gas or Oil Terrestrial

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 - Environmental Management Frameworks relevant to the application 5
- Environmental screening results and assessment outcomes 5
 - Relevant development incentives, restrictions, exclusions or prohibitions 5
 - Proposed Development Area Environmental Sensitivity 5
 - Specialist assessments identified 6
- Results of the environmental sensitivity of the proposed area 8
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 - MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY 10
 - MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY 11
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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	GROOTKOP	277	0	27°43'10.93S	26°40'44.68E	Farm
2	GROOTKOP	277	9	27°43'1.73S	26°40'56.82E	Farm Portion
3	GROOTKOP	277	0	27°43'23.64S	26°41'32.51E	Farm Portion
4	GROOTKOP	277	10	27°43'16.26S	26°40'29.92E	Farm Portion
5	GROOTKOP	277	7	27°43'16.93S	26°40'11.04E	Farm Portion
6	GROOTKOP	277	8	27°42'50.42S	26°41'28.14E	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	14/12/16/3/3/2/2219	Solar PV	Approved	25.6
2	14/12/16/3/3/1/1471	Solar PV	Approved	22

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.

3	14/12/16/3/3/1/1471/AM1	Solar PV	Approved	22
4	14/12/16/3/3/2/2218	Solar PV	Approved	25.5
5	14/12/16/3/3/3/1/644/AM1	Solar PV	Approved	6.2
6	14/12/16/3/3/2/376/2	Solar PV	Approved	6.2
7	14/12/16/3/3/2/376/1	Solar PV	Approved	6.2
8	14/12/16/3/3/2/2091	Solar PV	Approved	12.2
9	14/12/16/3/3/2/2220	Solar PV	Approved	25.5
10	14/12/16/3/3/1/1444	Solar PV	Approved	15.7
11	14/12/16/3/3/1/2410	Solar PV	Approved	0
12	14/12/16/3/3/3/1/644	Solar PV	Approved	6.2
13	14/12/16/3/3/2/376/AM2	Solar PV	Approved	6.2
14	14/12/16/3/3/1/2499	Solar PV	Approved	6.2
15	14/12/16/3/3/2/2221	Solar PV	Approved	26
16	14/12/16/3/3/2/376/2/AM6	Solar PV	Approved	6.2
17	14/12/16/3/3/1/1472	Solar PV	Approved	20.5

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 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:

Mining | Production Right | Gas or Oil Terrestrial.

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 Transmission Corridor-Central corridor	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combined_EGI.pdf
Main Electricity Distribution Substation	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Distribution_Transmission.pdf

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
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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	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 Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
7	Hydrology Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
9	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Noise_Impacts_Assessment_Protocol.pdf
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
11	Health Impact	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf

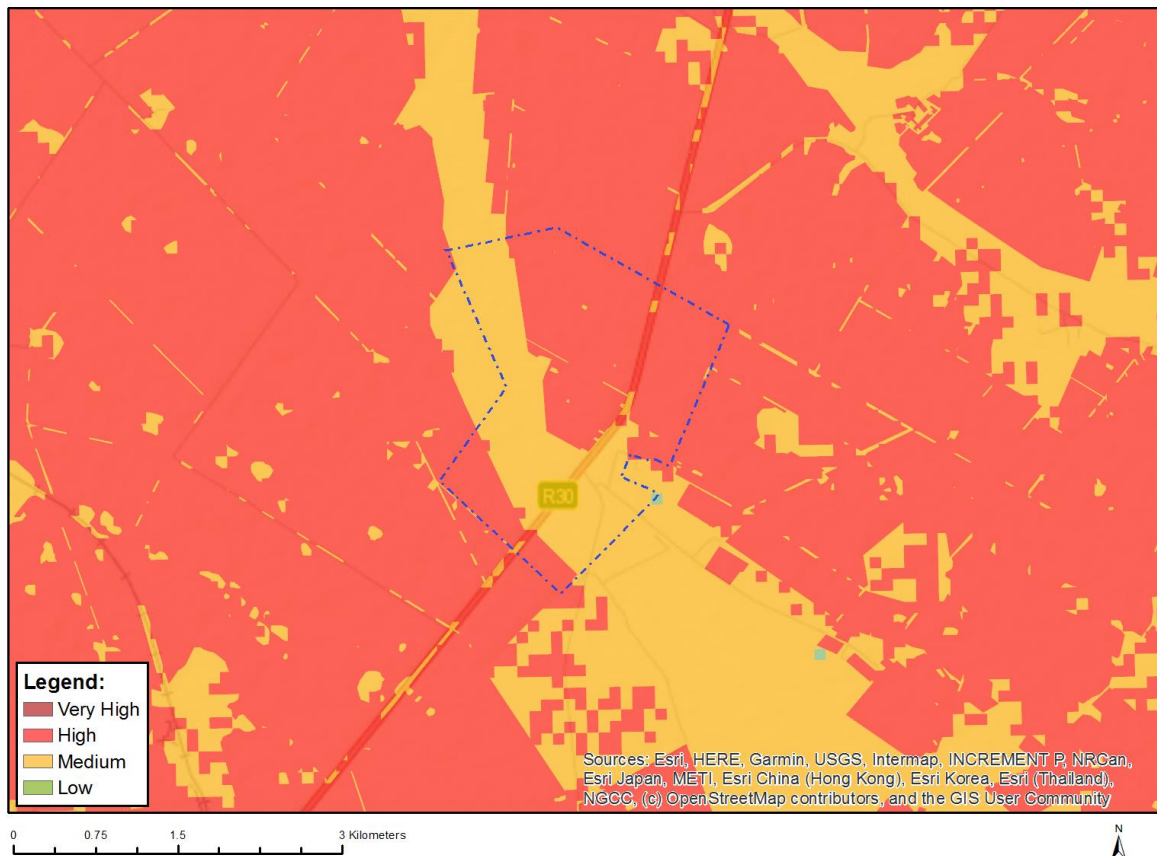
	Assessment	ssmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
12	Ambient Air Quality Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
13	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
14	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

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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 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

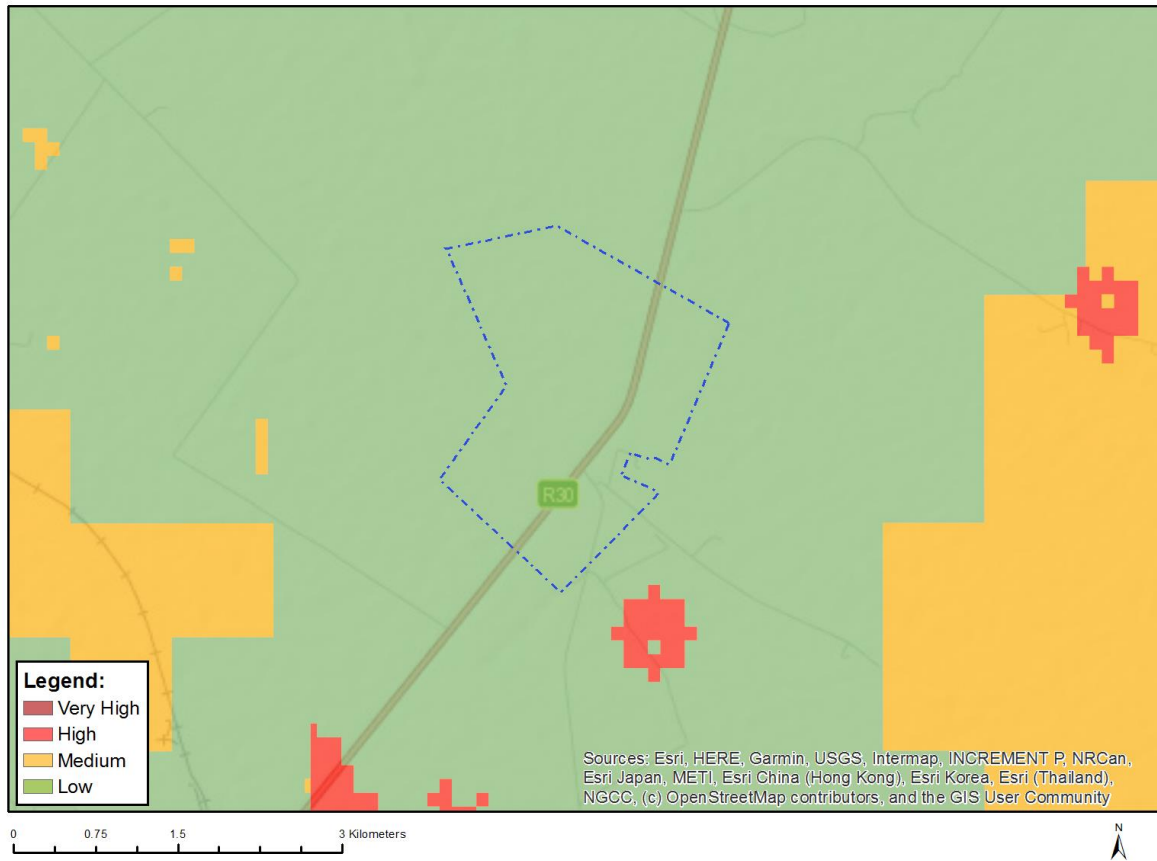


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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
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



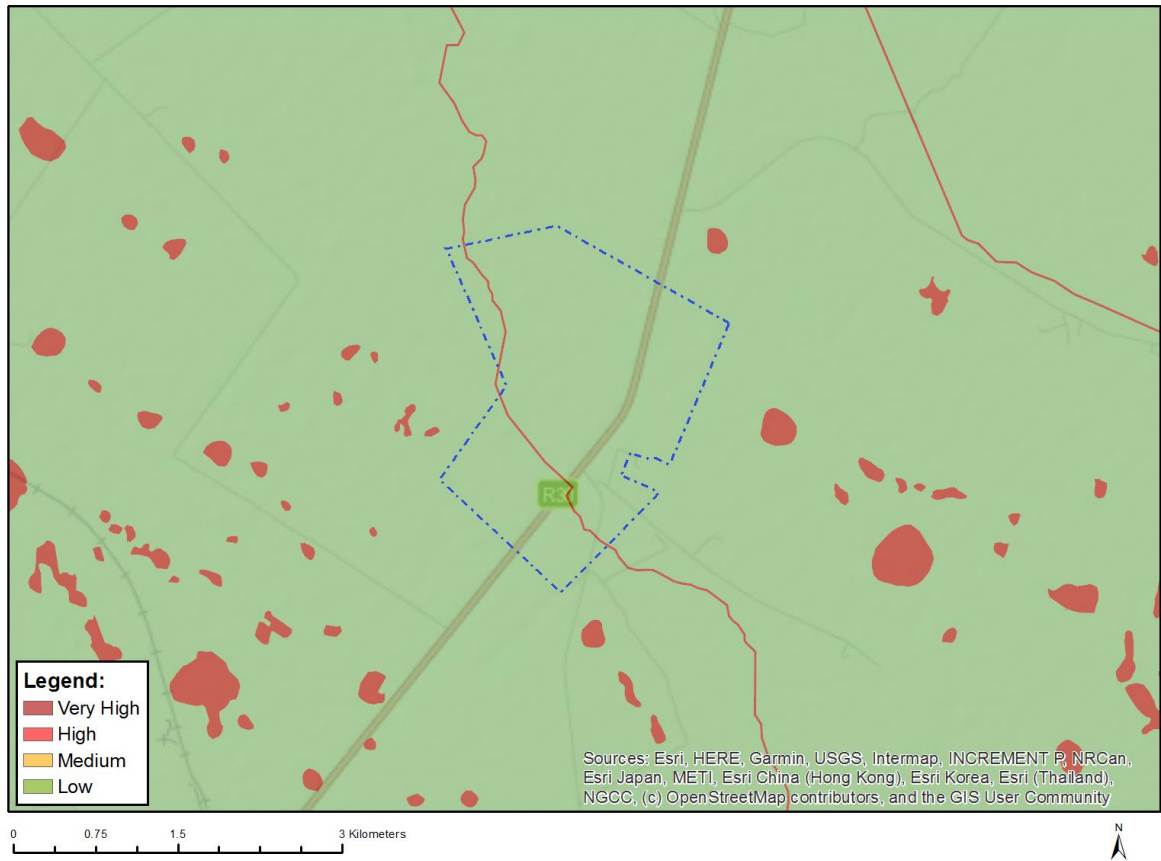
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their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

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_C

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

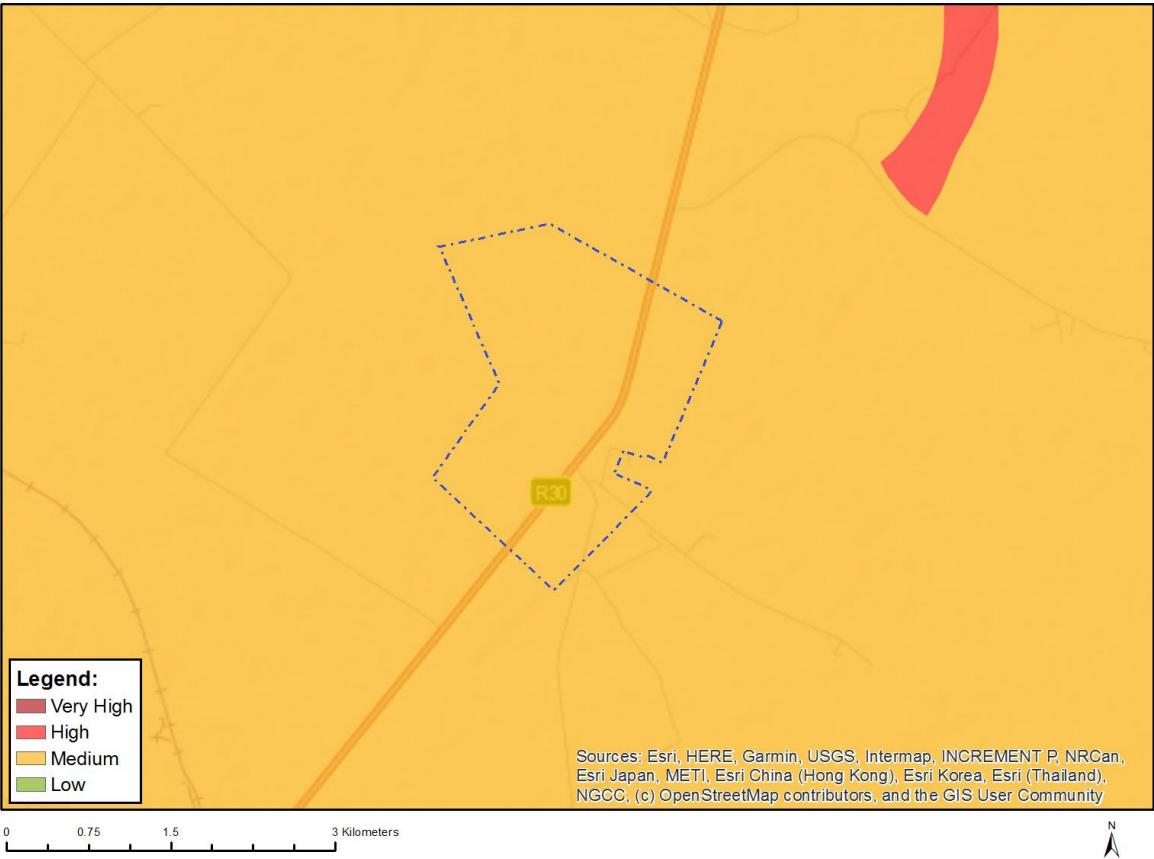


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

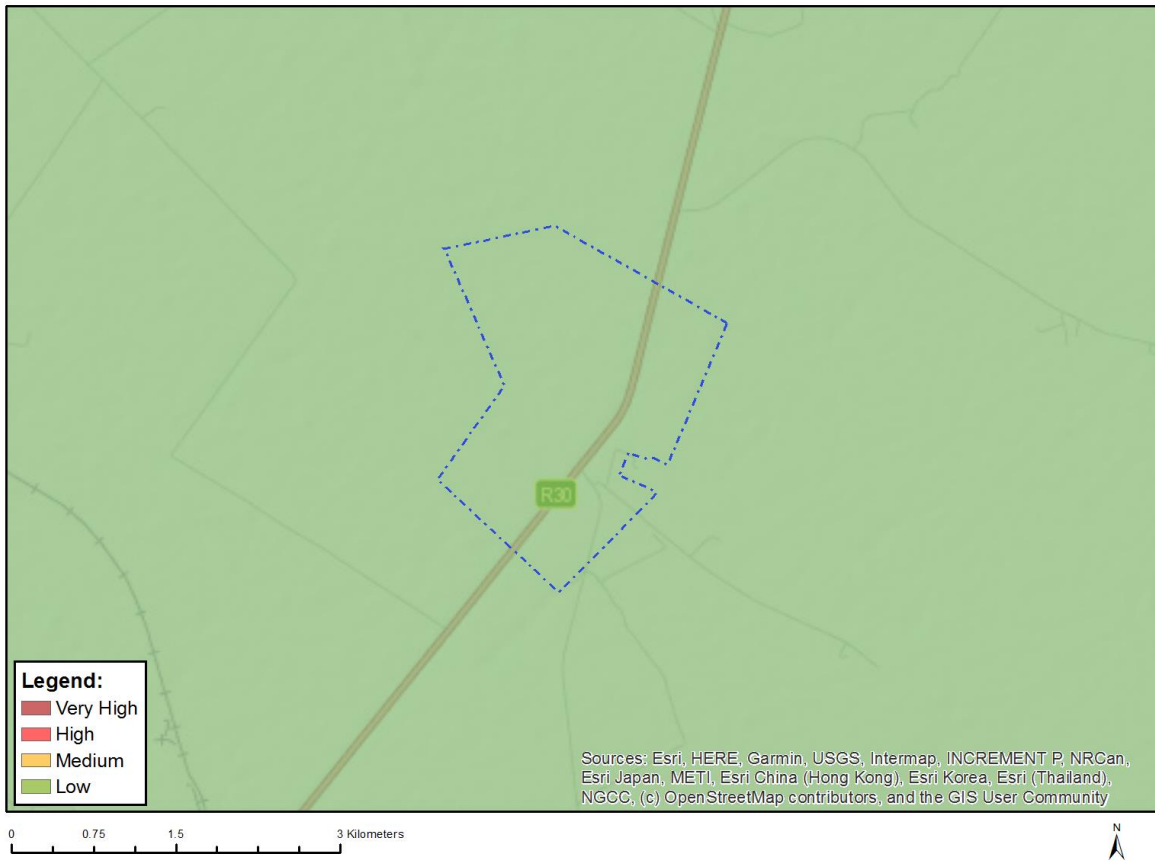


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Features with a Low paleontological sensitivity
Medium	Features with a Medium paleontological sensitivity

MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



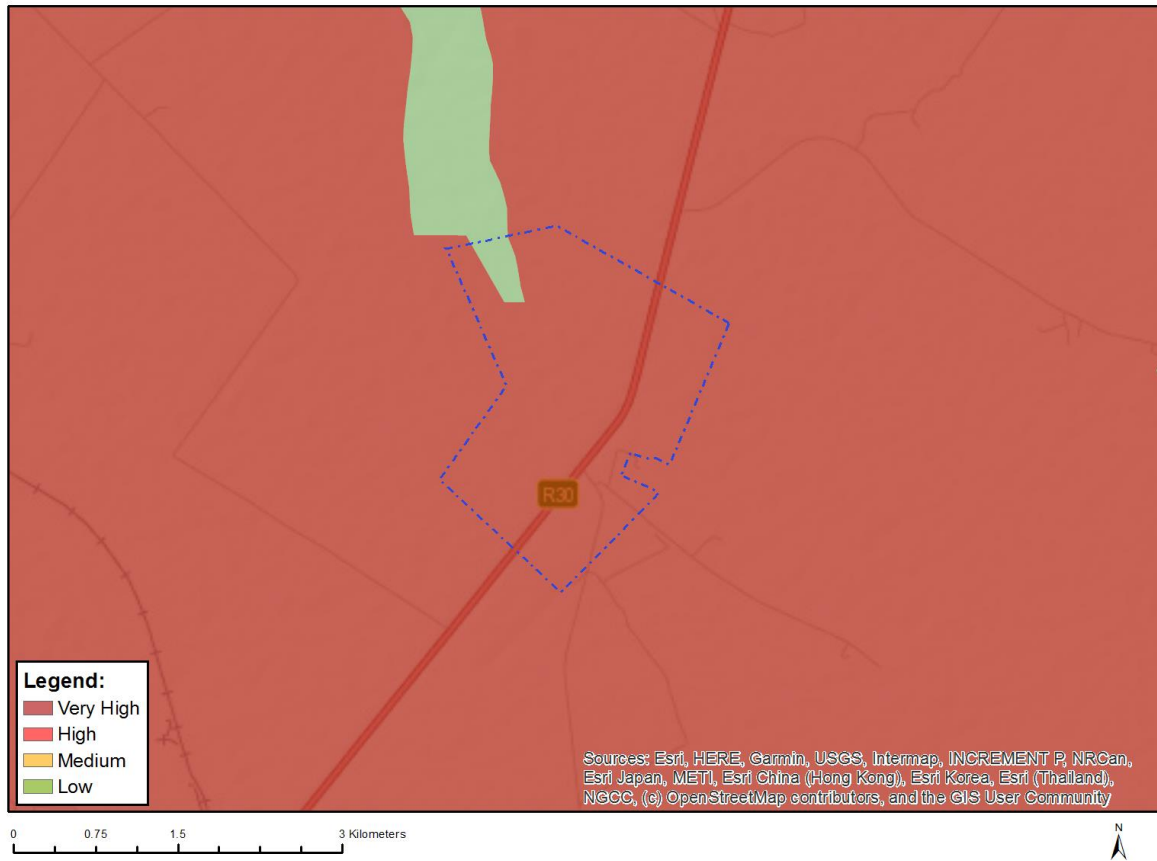
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their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

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	CBA 1
Very High	ESA 1
Very High	ESA 2
Very High	EN_Vaal-Vet Sandy Grassland

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

EIA Reference number: 1610

Project name: Tetra4 PR Extension BA

Project title: South A

Date screening report generated: 15/04/2024 12:35:34

Applicant: Tetra4

Compiler: EIMS

Compiler signature:
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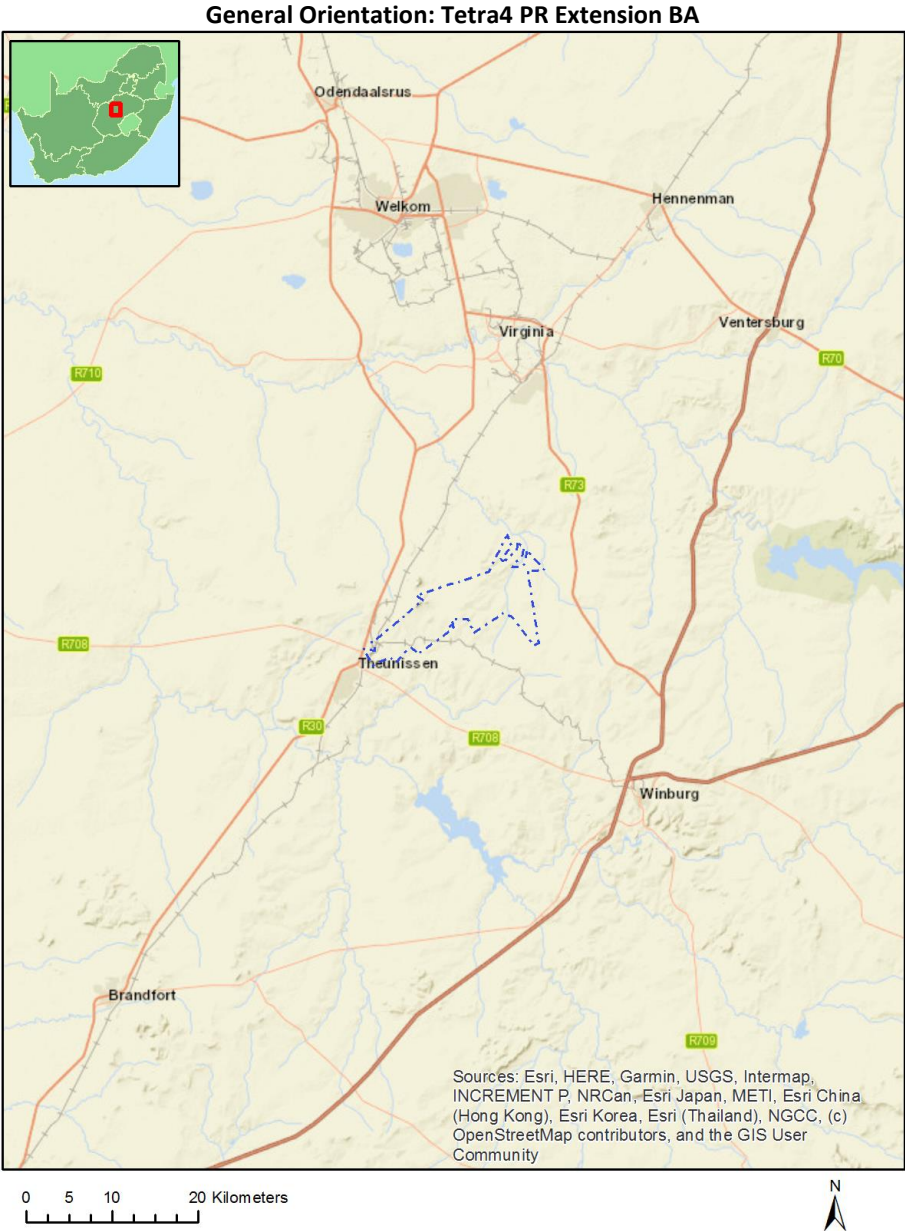
Application Category: Mining|Production Right|Gas or Oil Terrestrial

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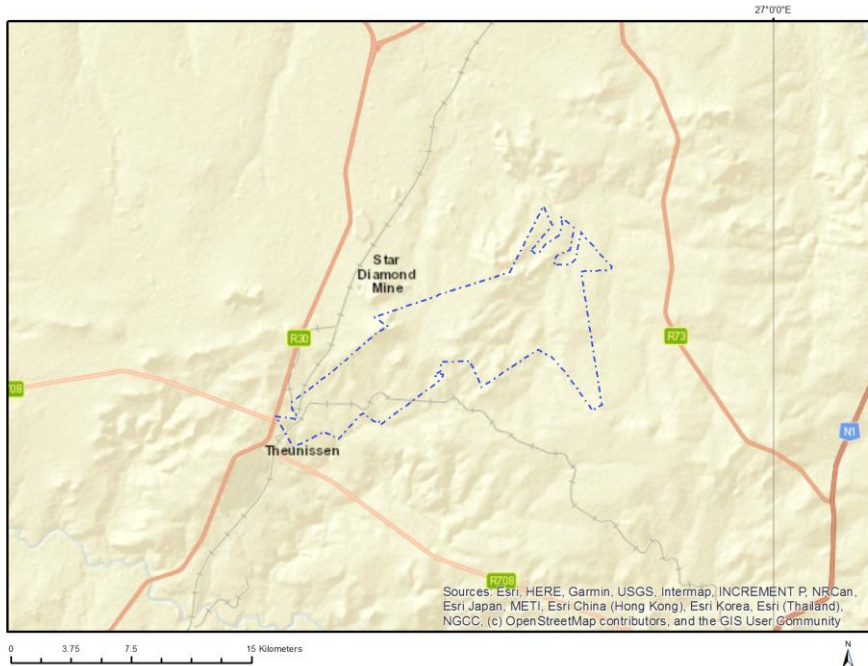
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 - MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY 16
 - MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY 17

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	ALTONA 442	422	0	28°21'21.34S	26°47'38.51E	Farm
2	GOOI DIE HOED	5	0	28°20'17.18S	26°54'38.39E	Farm
3	SCHOEMANSKOP	654	0	28°17'45.17S	26°52'27.38E	Farm
4	MALGASKRAAL	374	0	28°20'11.95S	26°48'22.59E	Farm
5	VRUCHTENFONTEIN	942	0	28°17'54.02S	26°55'13.22E	Farm
6	DI BLESBOKKANTOOR	1549	0	28°20'1.82S	26°52'46.07E	Farm
7	GANGERS COTTAGE	345	0	28°22'59.54S	26°43'50.36E	Farm
8	VALENCIA	305	0	28°22'50.02S	26°45'6.69E	Farm
9	LE SOUVENIR	1548	0	28°20'9.92S	26°50'25.7E	Farm
10	AZEKA	1019	0	28°17'6.96S	26°54'42.65E	Farm
11	SMALDEEL	262	0	28°23'29.2S	26°42'40.61E	Farm
12	LOUTERBRONNEN	250	0	28°24'15.67S	26°43'29.61E	Farm
13	THEUNISSEN	252	0	28°22'31.57S	26°43'25.11E	Farm
14	HAZOR	381	0	28°16'21.28S	26°53'33.76E	Farm
15	LEEJWUUIL	253	0	28°22'14.65S	26°51'55.81E	Farm
16	POORTJIE	488	0	28°24'31.85S	26°47'21.09E	Farm
17	HIGH FIELD	53	0	28°23'26.98S	26°54'36.01E	Farm
18	EMMAUS	18	0	28°21'47.17S	26°46'15.58E	Farm
19	KALKLEEGTE	460	0	28°22'13.47S	26°44'41.76E	Farm
20	RENDEZVOUS	333	0	28°23'28.89S	26°43'21.6E	Farm
21	LOUTERBRONNEN	250	1	28°23'26.69S	26°44'1.76E	Farm Portion
22	POORTJIE	488	0	28°23'56.36S	26°48'0.73E	Farm Portion
23	MALGASKRAAL	374	0	28°20'27.52S	26°48'54.99E	Farm Portion
24	RENDEZVOUS	333	2	28°23'20.23S	26°43'34.73E	Farm Portion
25	EMMAUS	18	0	28°21'22.89S	26°46'3.15E	Farm Portion
26	LEEJWUUIL	253	0	28°21'50.09S	26°51'32.93E	Farm Portion

27	MALGASKRAAL	374	1	28°19'56.48S	26°47'50.4E	Farm Portion
28	RENDEZVOUS	333	0	28°22'55.78S	26°43'59.12E	Farm Portion
29	GOOI DIE HOED	5	0	28°21'38.78S	26°54'59.02E	Farm Portion
30	LE SOUVENIR	1548	0	28°20'46.57S	26°50'46.67E	Farm Portion
31	DI BLESBOKKANTOOR	1549	2	28°19'36.76S	26°52'37.66E	Farm Portion
32	LEEUWKUIL	253	1	28°22'39.32S	26°52'18.75E	Farm Portion
33	VALENCIA	305	1	28°22'36.94S	26°44'44.74E	Farm Portion
34	KALKLEEGTE	460	1	28°22'9.04S	26°44'39.17E	Farm Portion
35		442	1	28°20'55.35S	26°47'22.2E	Farm Portion
36	HIGH FIELD	53	0	28°23'28.47S	26°54'35.2E	Farm Portion
37	SCHOEMANSKOP	654	1	28°18'24.92S	26°54'34.68E	Farm Portion
38	SMALDEEL	262	22	28°23'4.68S	26°43'9.84E	Farm Portion
39	RENDEZVOUS	333	0	28°23'30.13S	26°43'17.11E	Farm Portion
40	SMALDEEL	262	15	28°22'54.97S	26°43'55.02E	Farm Portion
41	EMMAUS	18	2	28°22'6.97S	26°46'23.13E	Farm Portion
42	GOOI DIE HOED	5	2	28°19'44.8S	26°54'32.44E	Farm Portion
43	GOOI DIE HOED	5	3	28°20'51.68S	26°54'56.1E	Farm Portion
44	AZEKA	1019	1	28°17'25.83S	26°54'5.24E	Farm Portion
45	SCHOEMANSKOP	654	0	28°17'43.61S	26°52'32.81E	Farm Portion
46	DI BLESBOKKANTOOR	1549	3	28°20'11.23S	26°52'48.45E	Farm Portion
47	DI BLESBOKKANTOOR	1549	4	28°21'13.27S	26°53'26.11E	Farm Portion
48	HAZOR	381	0	28°16'46.33S	26°53'23.85E	Farm Portion
49	GANGERS COTTAGE	345	0	28°22'59.35S	26°43'51.12E	Farm Portion
50	LE SOUVENIR	1548	1	28°19'32.61S	26°50'4.37E	Farm Portion
51	DI BLESBOKKANTOOR	1549	1	28°18'52.46S	26°52'48.18E	Farm Portion
52	RENDEZVOUS	333	0	28°23'27.12S	26°43'31.46E	Farm Portion
53	RENDEZVOUS	333	0	28°23'5.77S	26°43'41.06E	Farm Portion
54		442	0	28°21'45.92S	26°47'56.12E	Farm Portion
55	THEUNISSEN	252	0	28°22'32.66S	26°43'34.76E	Farm Portion
56	SMALDEEL	262	0	28°24'5.96S	26°42'40.73E	Farm Portion
57	EMMAUS	18	1	28°22'33.84S	26°46'42.33E	Farm Portion
58	DI BLESBOKKANTOOR	1549	0	28°19'6.31S	26°51'31.03E	Farm Portion
59	VALENCIA	305	0	28°22'56.07S	26°45'11.08E	Farm Portion
60	VRUCHTENFONTEIN	942	0	28°17'55.18S	26°55'12.08E	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	14/12/16/3/3/2/2215	Solar PV	Approved	13.9

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.

2	14/12/16/3/3/2/2297	Solar PV	Approved	10.3
3	14/12/16/3/3/2/2100	Solar PV	Approved	10.1
4	14/12/16/3/3/2/2101	Solar PV	Approved	10.1
5	14/12/16/3/3/2/2217	Solar PV	Approved	13.9
6	14/12/16/3/3/2/672	Solar PV	Approved	6.1
7	14/12/16/3/3/1/2399	Solar PV	Approved	0
8	12/12/20/2668	Solar PV	Approved	3
9	14/12/16/3/3/2/2099	Solar PV	Approved	10.1
10	14/12/16/3/3/2/2214	Solar PV	Approved	14.2
11	12/12/20/2669	Solar PV	Approved	15.5
12	12/12/20/2667	Solar PV	Approved	3
13	14/12/16/3/3/2/2087	Solar PV	Approved	10.6
14	12/12/20/2666	Solar PV	Approved	14.6
15	14/12/16/3/3/2/2163	Solar PV	Approved	15.5
16	12/12/20/2666/A	Solar PV	Approved	14.6
17	12/12/20/2669/A	Solar PV	Approved	15.5
18	14/12/16/3/3/2/2230	Solar PV	Approved	14.2
19	14/12/16/3/3/1/2772	Solar PV	Approved	10.6

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:

Mining | Production Right | Gas or Oil Terrestrial.

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
Main Electricity Distribution Substation	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Distribution_Transmission.pdf

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	High	Medium	Low
-------	-----------	------	--------	-----

	sensitivity	sensitivity	sensitivity	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	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 Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
7	Hydrology Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	RFI Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
9	Noise Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Noise_Impacts_Assessment_Protocol.pdf
10	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf

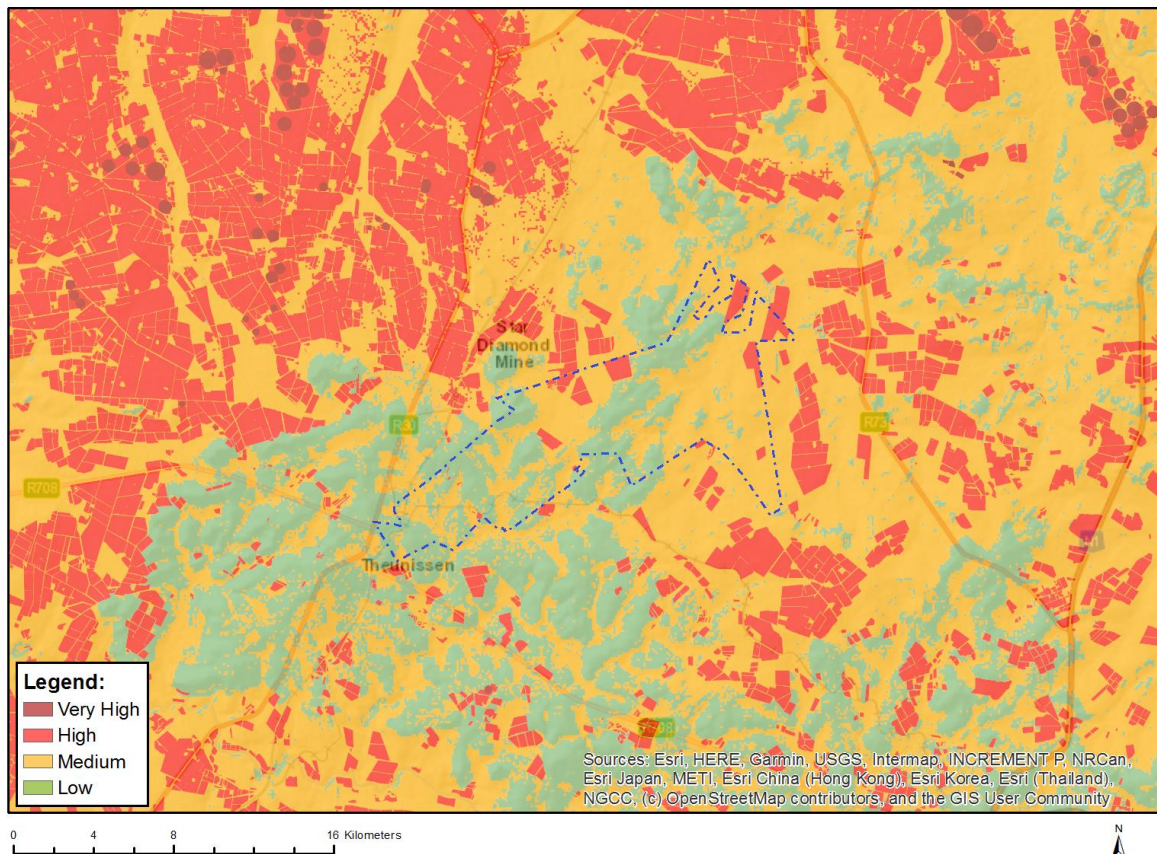
11	Health Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
12	Ambient Air Quality Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
13	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
14	Animal Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf

OFFICIAL

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

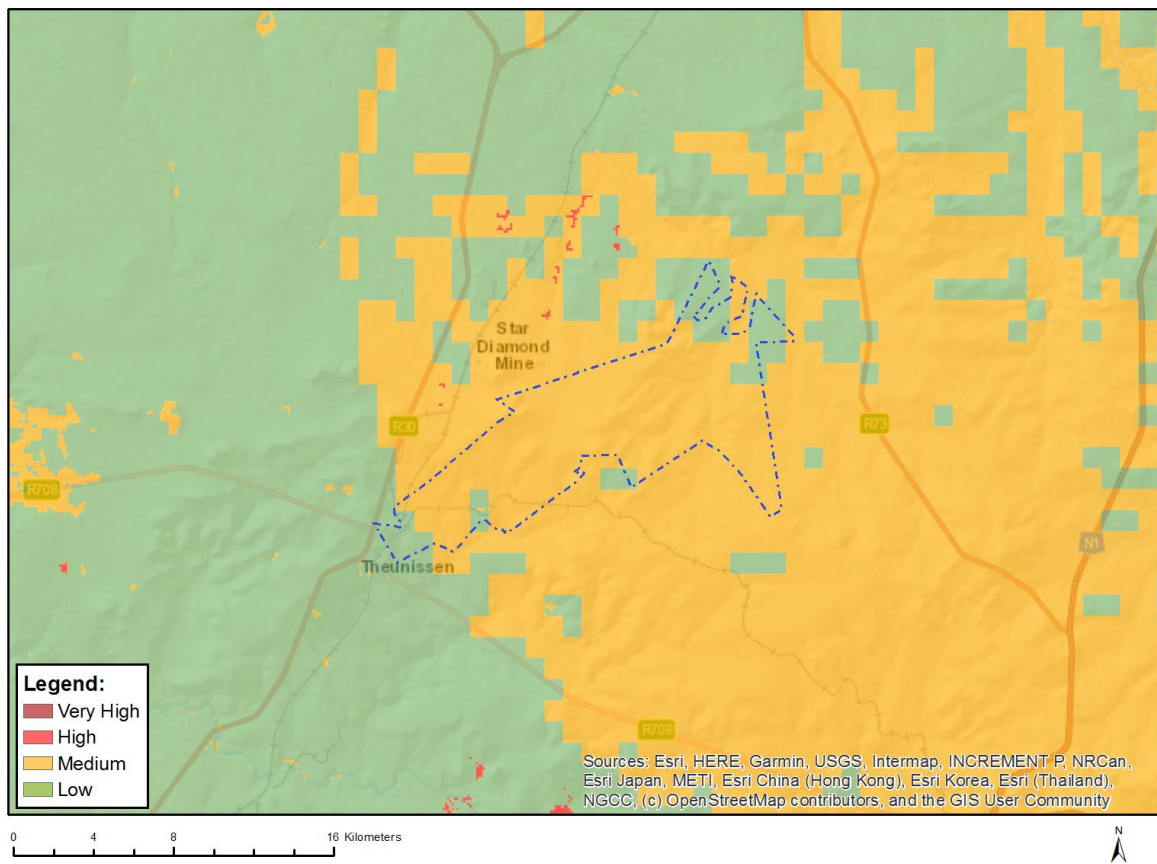


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Annual Crop Cultivation / Planted Pastures Rotation; Land capability; 01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
High	Old Fields; Land capability; 06. Low-Moderate/07. Low-Moderate/08. Moderate
High	Annual Crop Cultivation / Planted Pastures Rotation; Land capability; 06. Low-Moderate/07. Low-Moderate/08. Moderate
High	Old Fields; 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



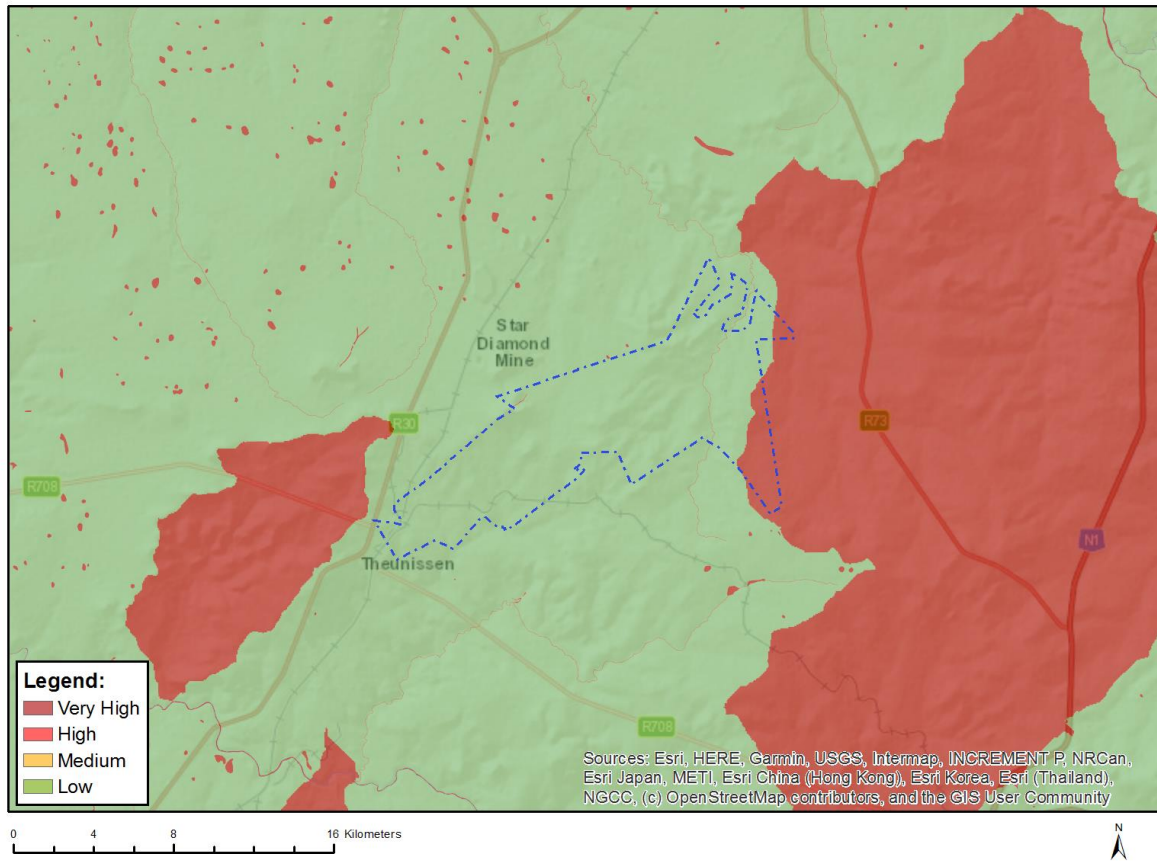
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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)
Low	Subject to confirmation
Medium	Aves-Sagittarius serpentarius
Medium	Mammalia-Hydrictis maculicollis

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

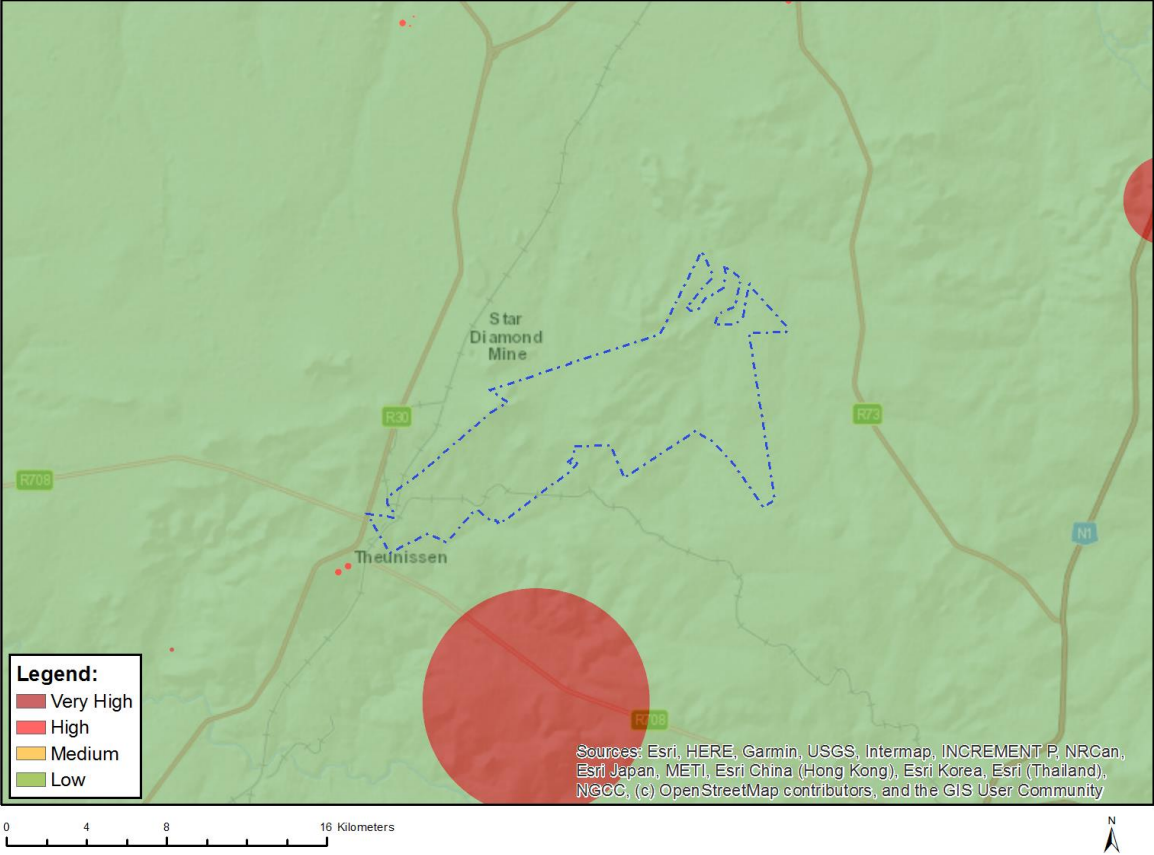


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	FEPA Subcatchment
Very High	Rivers_AB
Very High	Wetlands_Dry Highveld Grassland Bioregion (Depression)
Very High	Wetlands_Dry Highveld Grassland Bioregion (Seep)

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

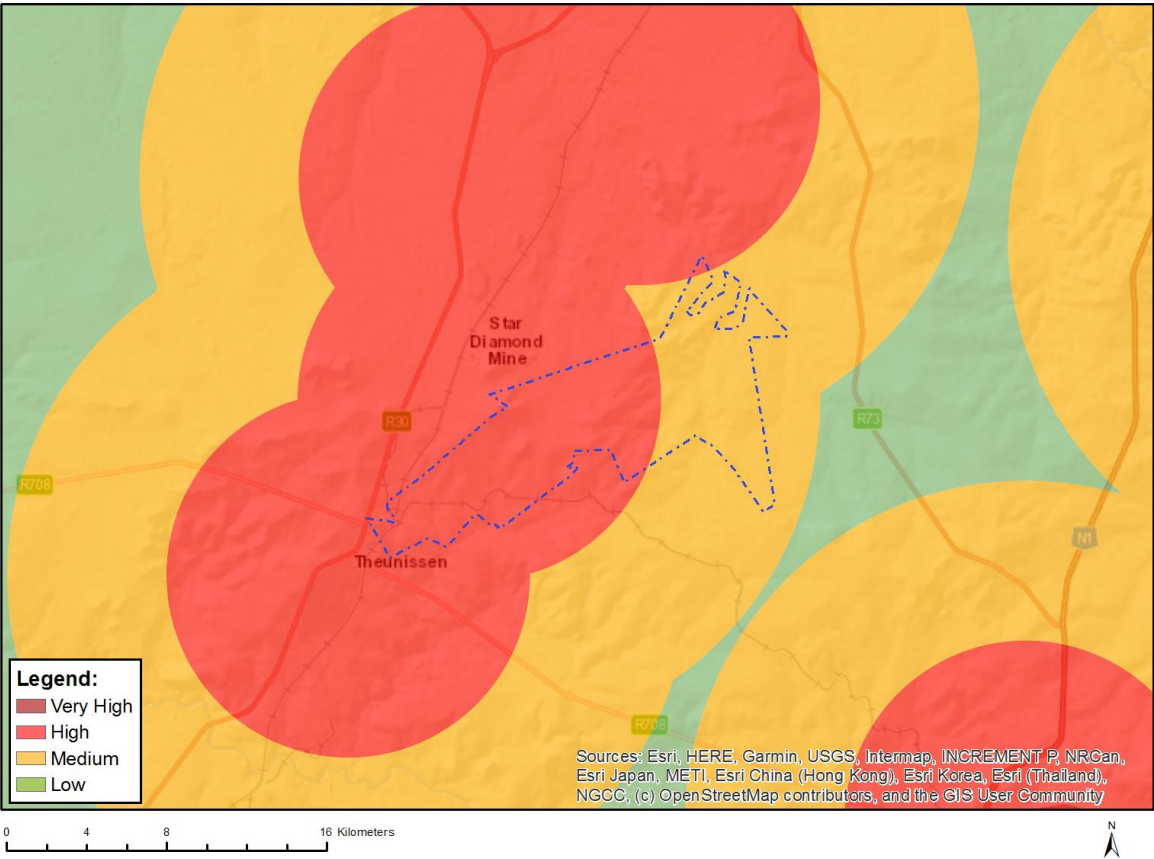


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

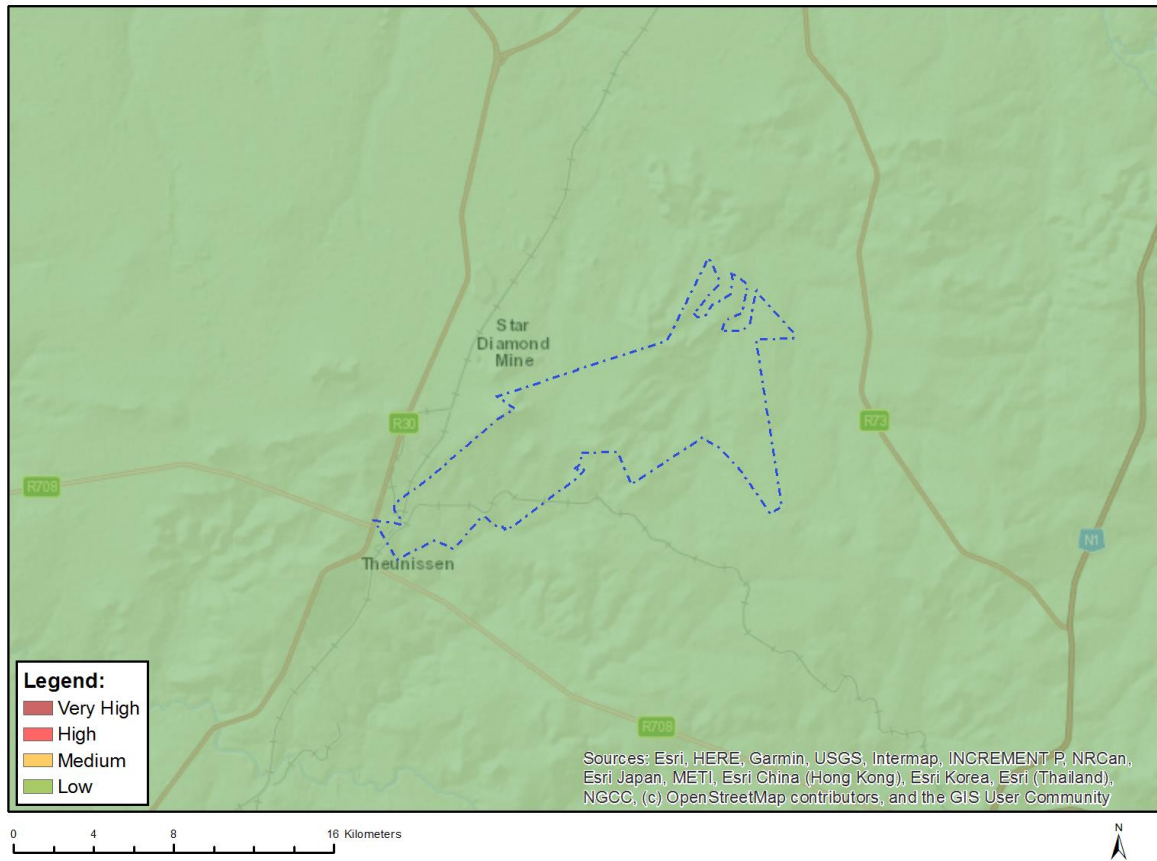


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

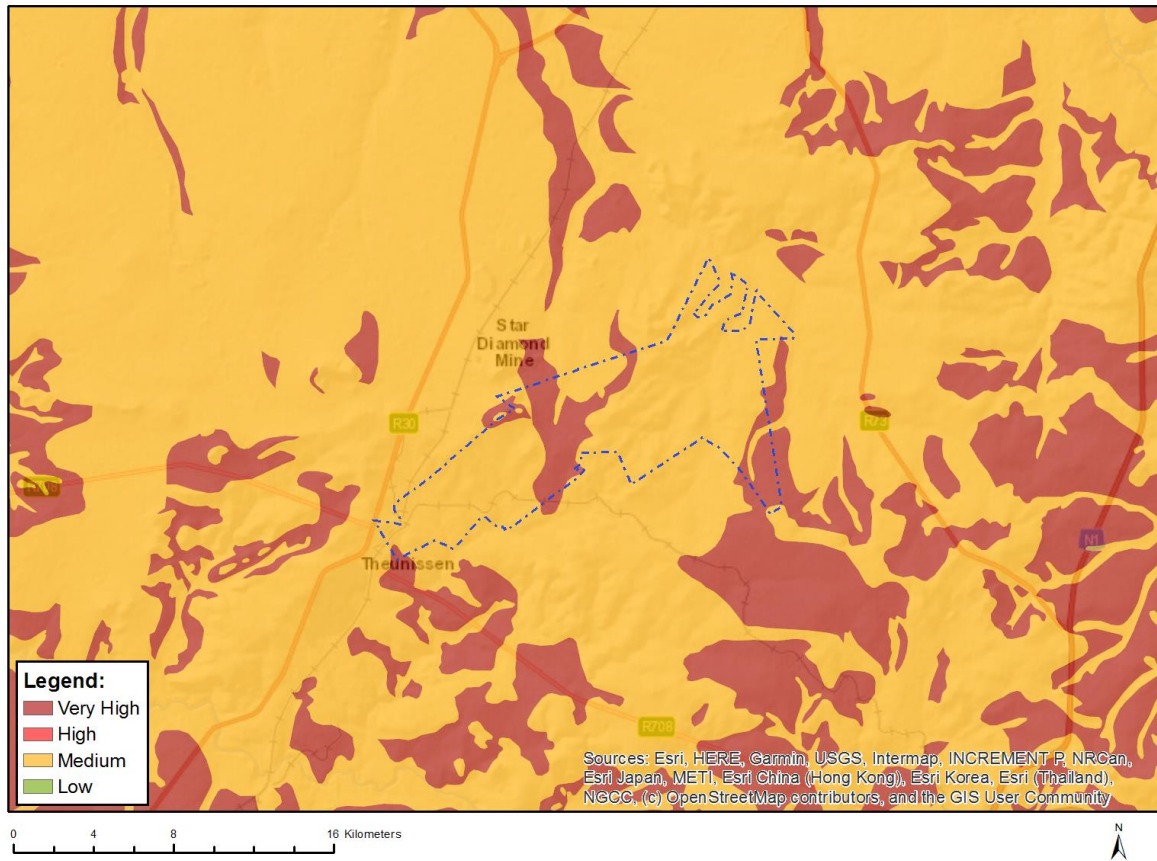


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

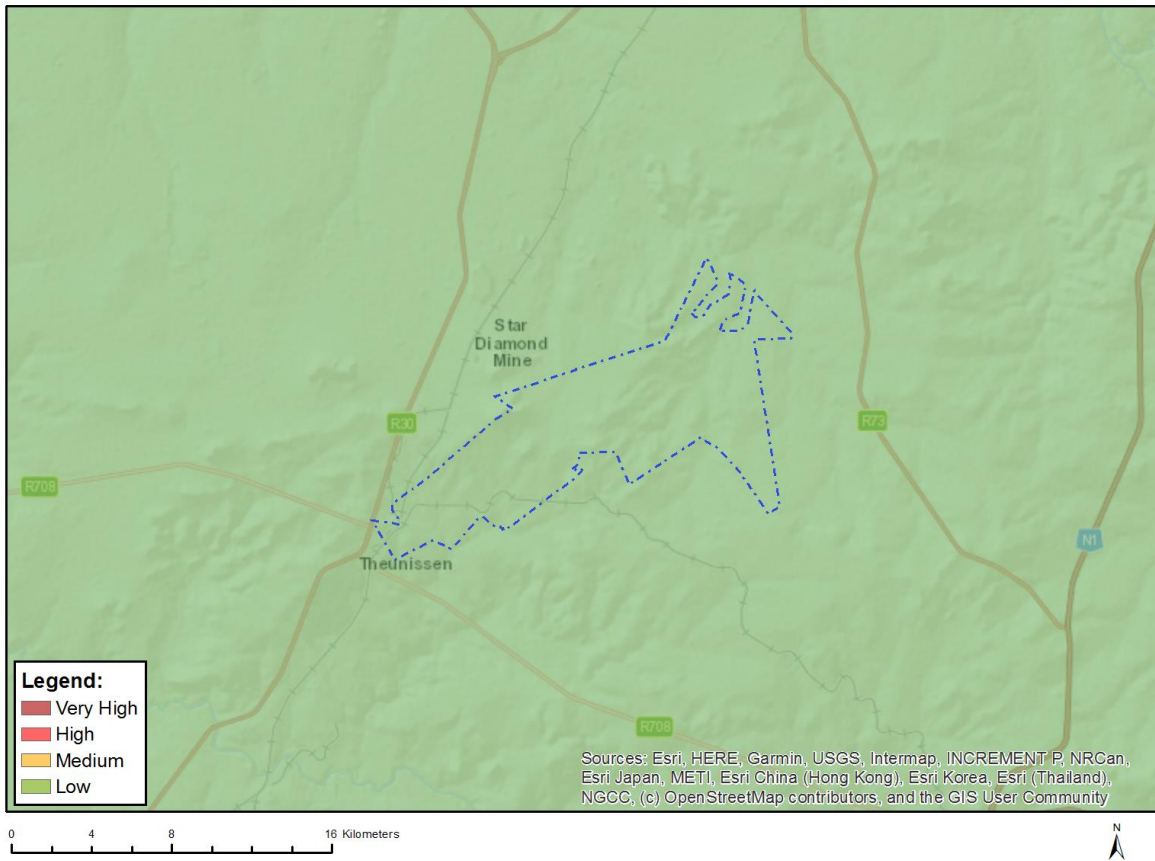


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

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



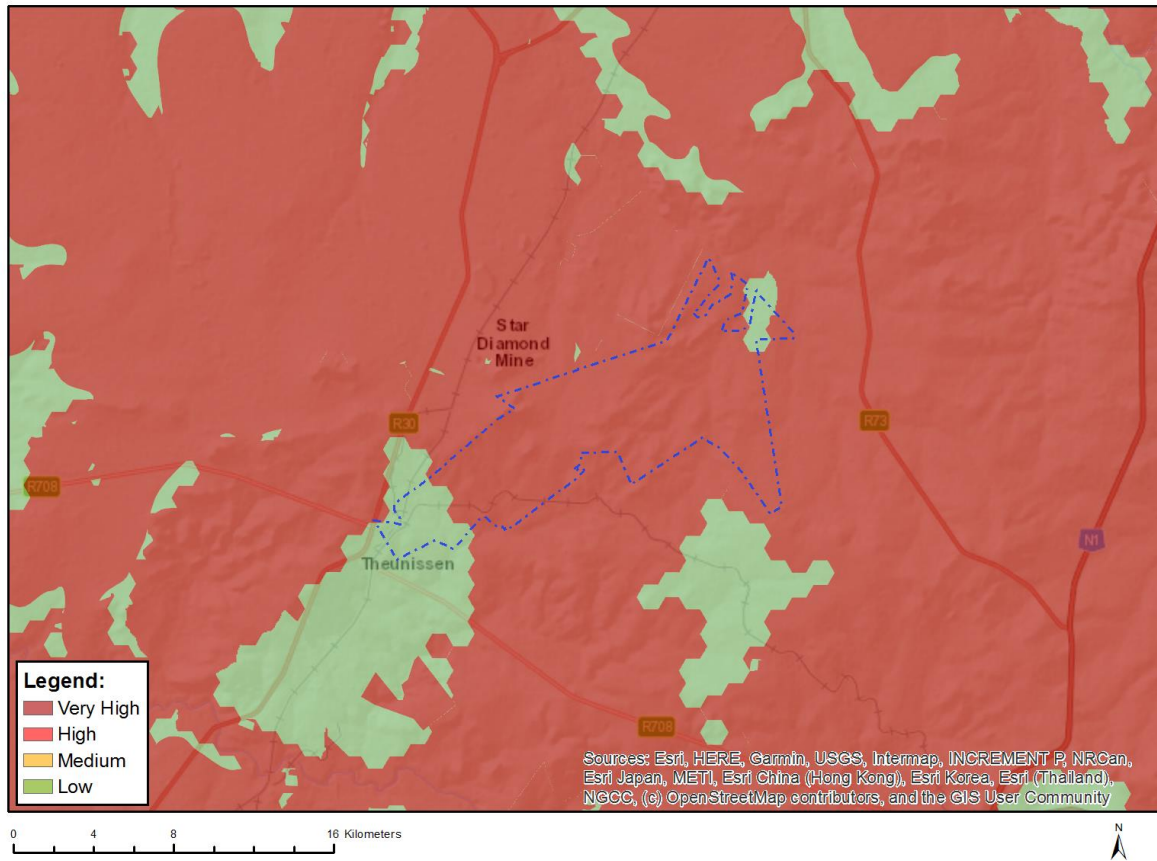
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their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

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	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)



PREPARED FOR:

PREPARED BY:

TETRA4 (PTY) LTD



Environmental Site Sensitivity and Verification Assessment/ Pre-Commencement Survey

Site ID:	ER32 and ER94	Consultant:	Environmental Impact Management Services (Pty) Ltd (EIMS)
Location:	Welkom/Virginia, FS	Inspector:	Jessica Jordaan
Client representative:	Tetra4	Inspection Date:	07 June 2024

1. Background and Project Description

Project background: Tetra4 is applying for a Production Right (PR) extension which will include exploration drilling activities across multiple farms, in areas surrounding Allanridge, Odendaalsrus and Theunissen in the Lejweleputswa district municipality, Free State. No pipelines or production facilities are proposed to be constructed within these sections at this stage. The proposed PR area consists of two Exploration Rights Areas, divided into 7 sections for the sake of this report, with 18 boreholes planned to be drilled within these sections.

Project Area

Location (Decimal Degrees)
~Central position

Section A – F (ER 32)



Latitude
-27.719588°

Longitude
26.632444°

Project Area

**Location (Decimal Degrees)
~Central position**



Latitude
-27.778067°

Longitude
26.611513°



Latitude
-27.845774°

Longitude
26.690521°



Latitude
-27.890113°

Longitude
26.736267°

Project Area

**Location (Decimal Degrees)
~Central position**



Latitude
-27.774623°

Longitude
26.699664°



Latitude
-27.718074°

Longitude
26.688101°

ER 94



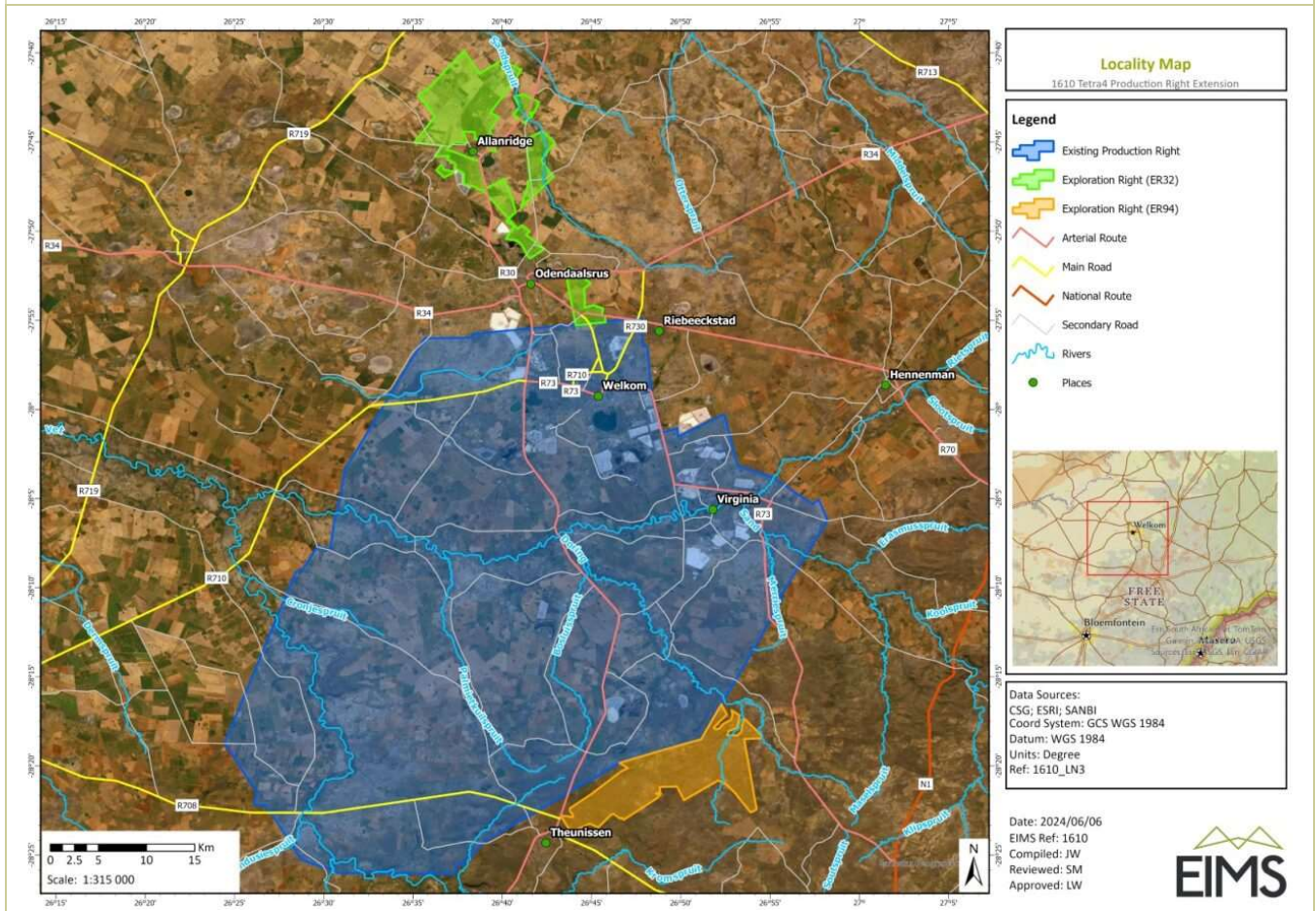
Latitude
-28.337331°

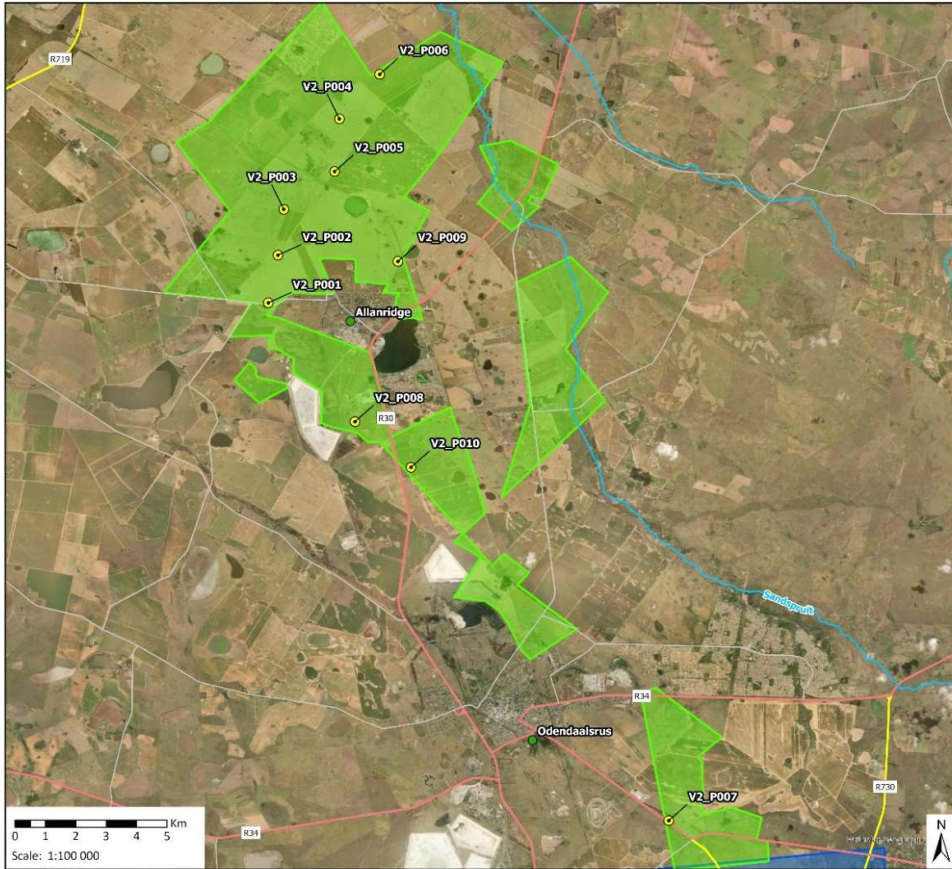
Longitude
26.816161°

Project Aspects:	Yes	No	Details (provide specifications)
Access, power, pipelines, sewage, activity	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>Access to sites:</p> <ul style="list-style-type: none"> Public roads access Existing on-site roads to be used New roads to be constructed when required <p>Power:</p> <ul style="list-style-type: none"> Power will be supplied on-site with use of electricity generators <ul style="list-style-type: none"> Diesel generators, using approximately 3000 litres of diesel per week during exploration activities. <p>Sanitation:</p> <ul style="list-style-type: none"> Portable sanitation ablutions will be provided on-site. Sewage from portable ablutions will be collected by a contractor. <p>Water requirements:</p> <ul style="list-style-type: none"> Municipality water to be used and stored during drilling operations. Drilling operations take place for approximately three months per site, therefore water to be stored for approximately 3 months per drilling site. Approximately 75 000 – 150 000 liters per drill site.

2. Site Layout Plan (include potential sensitive areas) and potential sensitivity?

Locality Maps





Prospective Drill Sites (ER32)
1610 Tetra4 PR Extension BA

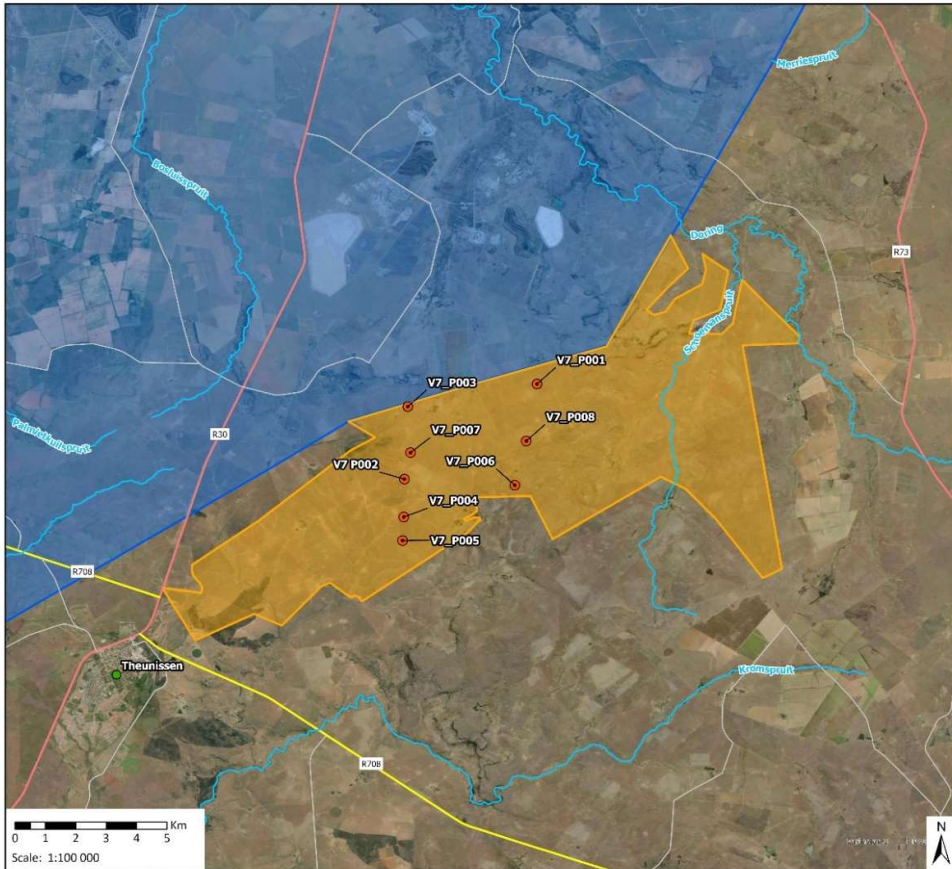
Legend

- Existing Production Right
- Exploration Right (ER32)
- Prospective Drill site (ER32)
- Arterial Route
- Main Road
- Secondary Road
- Rivers
- Places



Data Sources:
CSG; ESRI; SANBI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_DrillSites_ER32

Date: 2024/06/12
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW



Prospective Drill Sites (ER94)
1610 Tetra4 PR Extension BA

Legend

- Existing Production Right
- Exploration Right (ER94)
- Prospective Drill site (ER94)
- Arterial Route
- Main Road
- Secondary Road
- Rivers
- Places

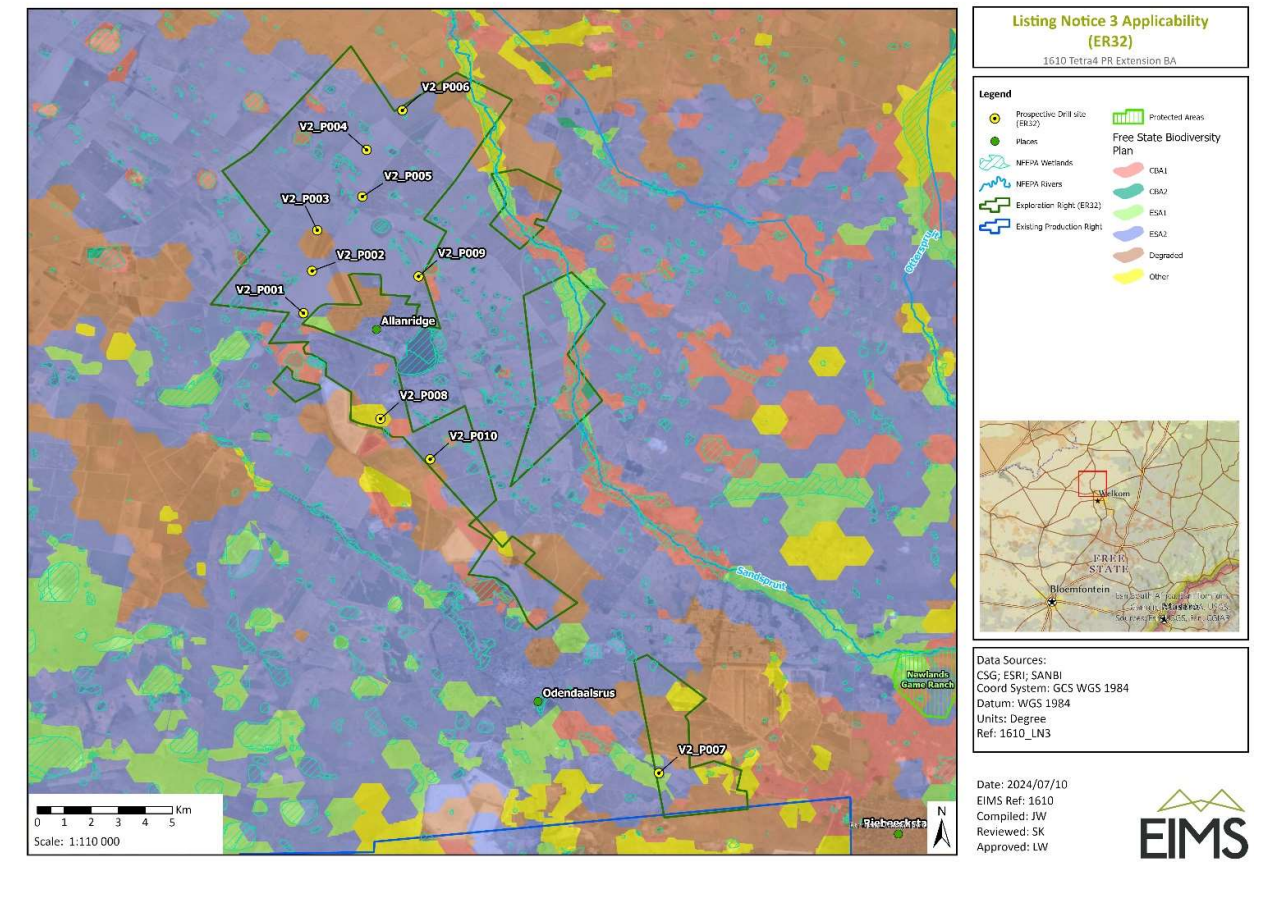
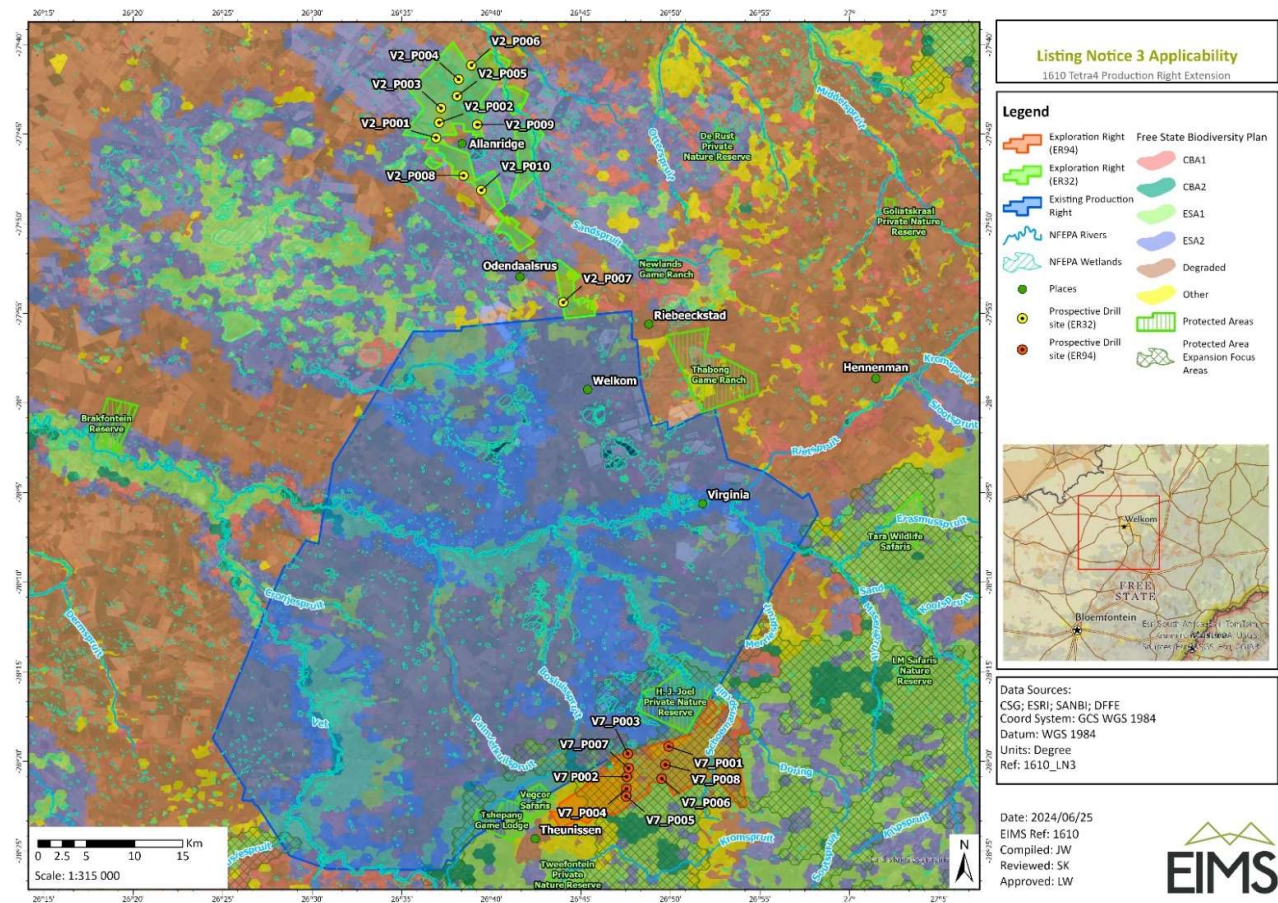


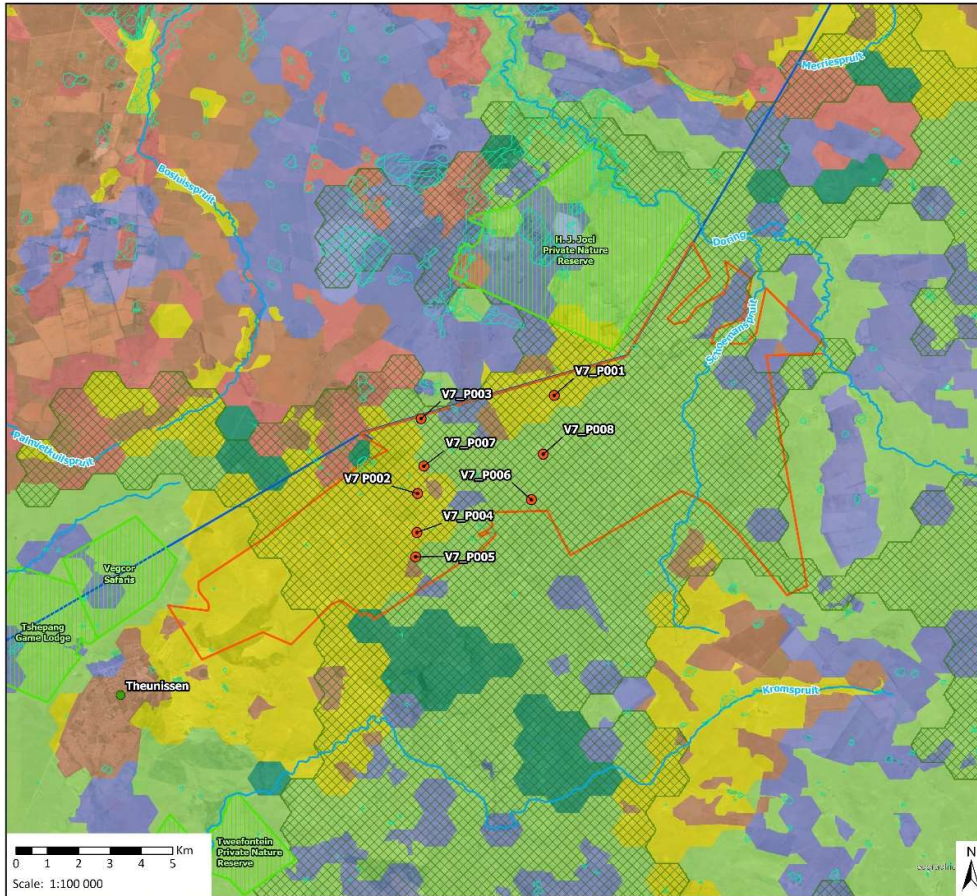
Data Sources:
CSG; ESRI; SANBI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_DrillSites_ER94

Date: 2024/06/12
EIMS Ref: 1610
Compiled: JW
Reviewed: SM
Approved: LW



Listing Notice 3 Applicability Maps (Potential Sensitivities)





Listing Notice 3 Applicability (ER94)
1610 Tetra4 PR Extension BA

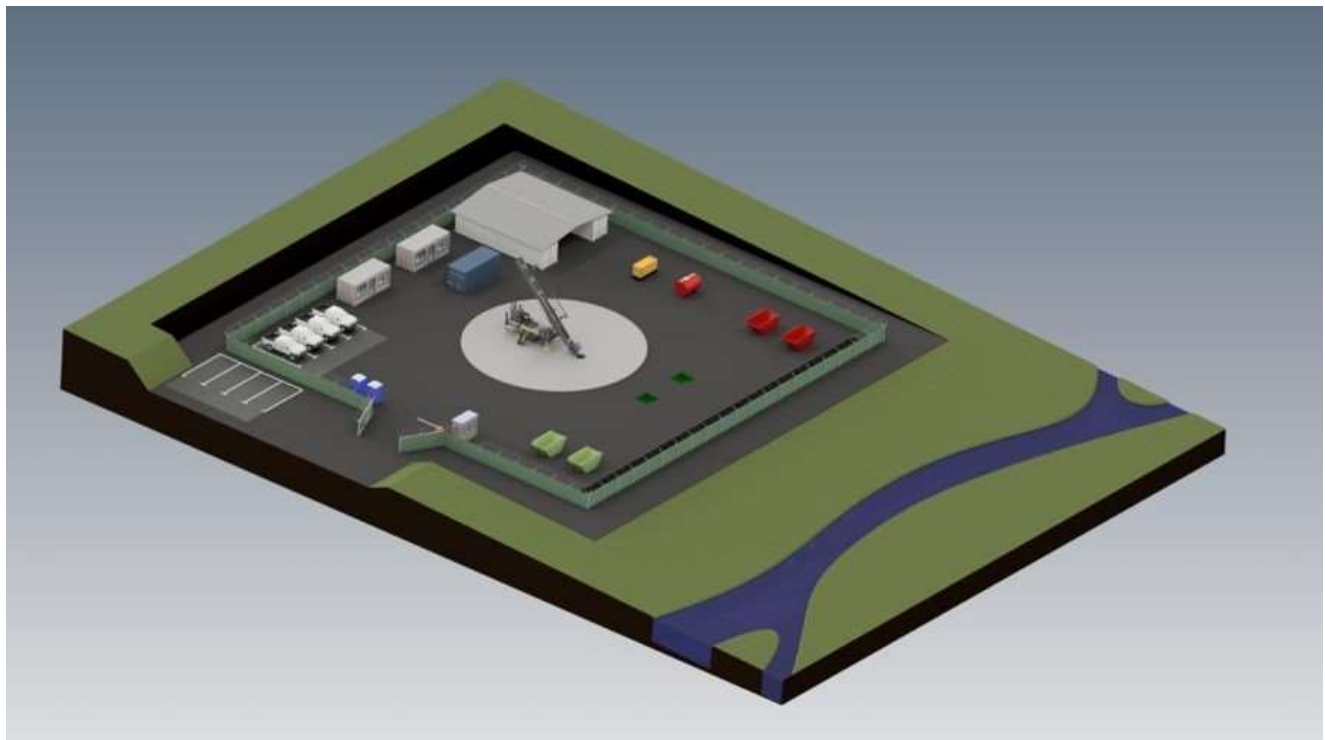
Legend

- Prospective Drill Site (ER94)
- Places
- NFEPA Wetlands
- NFEPA Rivers
- Exploration Right (BR94)
- Existing Production Right
- Protected Area Expansion Focus Areas
- Protected Areas
- Free State Biodiversity Plan
 - CBA1
 - CBA2
 - ESA1
 - ESA2
 - Degraded
 - Other

Data Sources:
CSG; ESRI; SANBI
Coord System: GCS WGS 1984
Datum: WGS 1984
Units: Degree
Ref: 1610_LN3

Date: 2024/07/10
EIMS Ref: 1610
Compiled: JW
Reviewed: SK
Approved: LW

Drill Site Layout and Description



Exploration for gas reserves will involve a temporary drilling process. A 50 x 50 m area will be required for a period of approximately 3-4 months to set up a drilling rig and extract a single well. Following extraction, gas testing takes an additional 7-14 days. International safety standards and best practices will be followed throughout drilling, with each borehole being encased and sealed using steel casing and cement grouting to prevent any contamination of freshwater aquifers.

The drilling equipment itself is temporary and includes a truck-mounted or skid-mounted rig, excavator, dozer, grader, water truck, transportation vehicles, and sanitation facilities. Successful wells will be transitioned into production wells by incorporating a valve within a concrete bunker with a small surface footprint (approximately 1.5 m²) (a separate EA application will be lodged for production activities). Unsuccessful wells will be decommissioned, and the area will be rehabilitated. All production wells will be reinforced with casing and grouting to a depth of 300 m, ensuring a permanent barrier between deep and shallow water resources.

2.1. DEA Screening Tool Assessment (Section A, ER32)

Theme	Very High	High	Medium	Low
Agriculture Theme		X		
Animal species		X		
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme	X			
Civil Aviation Theme			X	
Defence Theme				X
Palaeontology Theme		X		
Plant Species Theme				X
Terrestrial Biodiversity Theme	X			

DEA Screening Tool Assessment (Section B, ER32)

Theme	Very High	High	Medium	Low
Agriculture Theme		X		
Animal species				X
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme			X	
Defence Theme				X
Palaeontology Theme		X		
Plant Species Theme				X
Terrestrial Biodiversity Theme	X			

DEA Screening Tool Assessment (Section C, ER32)

Theme	Very High	High	Medium	Low
Agriculture Theme		X		
Animal species		X		
Aquatic Biodiversity Theme				X
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme				X
Defence Theme				X
Palaeontology Theme			X	
Plant Species Theme				X
Terrestrial Biodiversity Theme				X

DEA Screening Tool Assessment (Section D, ER32)

Theme	Very High	High	Medium	Low
Agriculture Theme		X		
Animal species		X		
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme	X			
Civil Aviation Theme			X	
Defence Theme				X
Palaeontology Theme		X		
Plant Species Theme				X
Terrestrial Biodiversity Theme	X			

DEA Screening Tool Assessment (Section E, ER32)

Theme	Very High	High	Medium	Low
Agriculture Theme		X		
Animal species			X	
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme				X
Defence Theme				X

Palaeontology Theme		X	
Plant Species Theme			X
Terrestrial Biodiversity Theme	X		

DEA Screening Tool Assessment (Section F, ER32)

Theme	Very High	High	Medium	Low
Agriculture Theme		X		
Animal species				X
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme				X
Defence Theme				X
Palaeontology Theme			X	
Plant Species Theme				X
Terrestrial Biodiversity Theme	X			

DEA Screening Tool Assessment (ER94)

Theme	Very High	High	Medium	Low
Agriculture Theme		X		
Animal species			X	
Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme				X
Civil Aviation Theme		X		
Defence Theme				X
Palaeontology Theme	X			
Plant Species Theme				X
Terrestrial Biodiversity Theme	X			

3. Site Assessment

3.1 Gradient (indicate the general gradient characteristics of site)

Aspect									
Study Area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Is the site located on or in the immediate vicinity of any of the following:

	Yes	No	Comment
Erosion Channels or areas of severe erosion/ destabilized soils	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The following locations have been observed to display signs of erosion: 27°49'56.24"S 26°40'52.53"E 27°54'20.06"S 26°44'26.24"E

			27°52'26.52"S 26°43'53.06"E 27°54'50.26"S 26°44'36.53"E
Wetlands (within 32m)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	There are three (3) watercourses within 32 m of the proposed areas (Sandspruit, Schoemanspruit and Doring river) and multiple waterbodies observed within the areas.
Unstable slopes or geological features (rocky outcrops)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All the drilling sites, with the exception of ER 94 drilling site P008 are not found on rocky outcrops. ER 94 P008: 28°20'10.86"S 26°49'42.90"E
Bare areas	<input checked="" type="checkbox"/>	<input type="checkbox"/>	The following locations have been observed to display signs of erosion (Bare areas): 27°49'56.24"S 26°40'52.53"E 27°54'20.06"S 26°44'26.24"E 27°52'26.52"S 26°43'53.06"E 27°54'50.26"S 26°44'36.53"E
Other Sensitive or risk areas?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Some proposed areas (Sections A and C, ER32) are directly adjacent to residential areas (Allanridge and Odendaalsrus).
Are any existing servitudes and structures directly or indirectly affected by the proposed sites and routes (e.g. Eskom, public road servitudes and restrictions-60m from National Road, farmer's water/irrigation supplies, etc.)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Existing roads, powerlines, farmhouses and mining areas occur within and/or adjacent to the study area.

3.2 Vegetation

Which of the listed descriptions best describes the general groundcover on and around the site?

Natural veld - good condition <input checked="" type="checkbox"/>	Natural veld with scattered aliens <input checked="" type="checkbox"/>	Natural veld with heavy alien infestation <input type="checkbox"/>	Veld dominated by alien species <input type="checkbox"/>	Gardens <input type="checkbox"/>
Sport field <input type="checkbox"/>	Cultivated land <input checked="" type="checkbox"/>	Paved surface <input checked="" type="checkbox"/>	Building or other structure <input checked="" type="checkbox"/>	Bare soil <input checked="" type="checkbox"/>

Comments on vegetation composition:

Comments on weed species/type

3.3 Sensitive Features:

Please indicate if any of the following applies?

	Yes	No	Comment
Sacred Spring of site within 500m	<input type="checkbox"/>	<input checked="" type="checkbox"/>	To be confirmed with I&APs.
Heritage features (graves, buildings, etc) within 500m.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Section A (ER32) within 500 m of a grade II heritage site according to screening tool, to be confirmed with heritage specialist.
Water Abstraction Points (boreholes or surface water) within 500m.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Multiple water abstraction points and farm dams found on-site.
Wetlands within 500m.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Watercourses within the proposed areas: <ul style="list-style-type: none"> • Sandspruit • Schoemanspruit • Doring river Dams are also observed in the proposed areas.

Residences or houses.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>Section A (ER94) borders on Allanridge. Sections C and D (ER94) borders on Odendaalsrus. Sections A, D and E (ER94), and Section A (ER94) contain residential properties. Section F (ER94) is bordering a residential area.</p>
3.4 Land cover/ use description: Describe the land uses on the site			
Agriculture and Mining	Land use within the area is primarily agricultural, with some designated mining zones.		
3.5 Post drilling intended land-use and any specific rehabilitation requirements or closure objectives?			
<p>The closure vision for the operation is to conduct the rehabilitation, decommissioning and closure operations and manage the environmental impacts in such a manner to ensure that the landscape is safe, stable, and non-polluting over the long term, and that the post closure land-use aligns with the surrounding land-use and/or agreed upon end-use and does not affect the sustained utilisation thereof.</p>			
4. General Comments and Recommendations for additional mitigation			
<p>The proposed development includes infrastructure which is geographically spread over a large area and therefore the development may impact on the biodiversity and aquatic environment. A detailed impact assessment will therefore be undertaken which will be informed by various specialist studies as well as a public consultation process.</p>			



5. Site Photos



Figure 1: Proposed Drilling site P001 at ER 94.



Figure 2: Predominant vegetation type.



Figure 3: Predominant vegetation type.



Figure 4: Burrowing mammals found widely distributed.



Figure 5: Multiple concrete dams found on-site.



Figure 6: Powerlines crossing ER 94.



Figure 7: Proposed drilling site P008 on ER 94, the surrounding nearby area is predominantly rocky outcrops.



Figure 8: Water course within Farm Di Blesbokkantoer in ER 94.



Figure 9: Drilling site P007 at ER 32.



Figure 10: Drilling site P010 at ER 32.



Figure 11: Drilling site P008 at ER 32.



6. Verification findings and motivation:

The following table provides a ranking of actual sensitivity observed on site against the sensitivity suggested by the National DFFE Screening Tool. A list of the specialist studies to be undertaken was also generated by the Screening Tool, the level of assessment which will be undertaken is shown below and motivation is also provided specifically where the Screening Tool suggested studies that are deemed not applicable to this project and therefore will not be undertaken.

Assessment for specialist studies and motivation:					
Screening Tool Specialist Study Required:	Level of sensitivity suggested by the screening tool:	Level of sensitivity suggested from site screening and sensitivity verification:	Required level of Assessment		Motivation
Agriculture	High	High	None.	<input type="checkbox"/>	A full DFFE protocol compliant specialist Agricultural Impact Assessment will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
Animal Species	High	High	None.	<input type="checkbox"/>	A full DFFE protocol compliant specialist Terrestrial Biodiversity Impact Assessment will be undertaken which will include impacts on sensitive and/or protected faunal species in the application area.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
Aquatic Biodiversity	Very High	Low	None.	<input type="checkbox"/>	A full DFFE protocol compliant specialist Aquatic and Wetland Impact Assessment will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
Archaeological and Cultural Heritage	Very High	Low	None.	<input type="checkbox"/>	A full DFFE protocol compliant specialist Heritage Impact Assessment will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input checked="" type="checkbox"/>	
			Other	<input type="checkbox"/>	
Civil Aviation	High	Low	None.	<input checked="" type="checkbox"/>	The nature of the proposed project and associated activities as well as the maximum height of the development components during both construction and operational phases will not pose a material risk to commercial air traffic. As such, no specialist aviation studies will be undertaken.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input type="checkbox"/>	
			Other	<input type="checkbox"/>	
Defence	Low	Low	None.	<input checked="" type="checkbox"/>	The Defence Theme was rated low Sensitivity and as per GN 320, no requirements are identified for assessment.
			Compliance Statement	<input type="checkbox"/>	
			Full Assessment	<input type="checkbox"/>	

Assessment for specialist studies and motivation:

Screening Tool Specialist Study Required:	Level of sensitivity suggested by the screening tool:	Level of sensitivity suggested from site screening and sensitivity verification:	Required level of Assessment	Motivation
			Other <input type="checkbox"/>	
Palaeontology	Very High	Medium	None. <input type="checkbox"/>	A full DFFE protocol compliant specialist Palaeontology Impact Assessment will be undertaken.
			Compliance Statement <input type="checkbox"/>	
			Full Assessment <input checked="" type="checkbox"/>	
			Other <input type="checkbox"/>	
Plant Species	Low	Low	None. <input type="checkbox"/>	A full DFFE protocol compliant specialist Terrestrial Biodiversity Impact Assessment will be undertaken which will include impacts on sensitive and/or protected floral species in the application area.
			Compliance Statement <input type="checkbox"/>	
			Full Assessment <input checked="" type="checkbox"/>	
			Other <input type="checkbox"/>	
Terrestrial Biodiversity	Very High	Very High	None. <input type="checkbox"/>	A full DFFE protocol compliant specialist Terrestrial Biodiversity Impact Assessment will be undertaken.
			Compliance Statement <input type="checkbox"/>	
			Full Assessment <input checked="" type="checkbox"/>	
			Other <input type="checkbox"/>	