

APPENDIX I: SCREENING TOOL REPORT

APPENDIX I1: SCREENING TOOL A

PROPOSED ALTERNATIVE 1 - SOUTH OF N2

200MM RISING MAIN TO NEW RESERVOIR

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

EIA Reference number:

Project name: Kurland Bulk Infrastructure

Project title: Proposed Preferred Alt 1_Rising Main

Date screening report generated: 23/02/2022 16:34:04

Applicant: BITOU LOCAL MUNICIPALITY

Compiler: SES_WA

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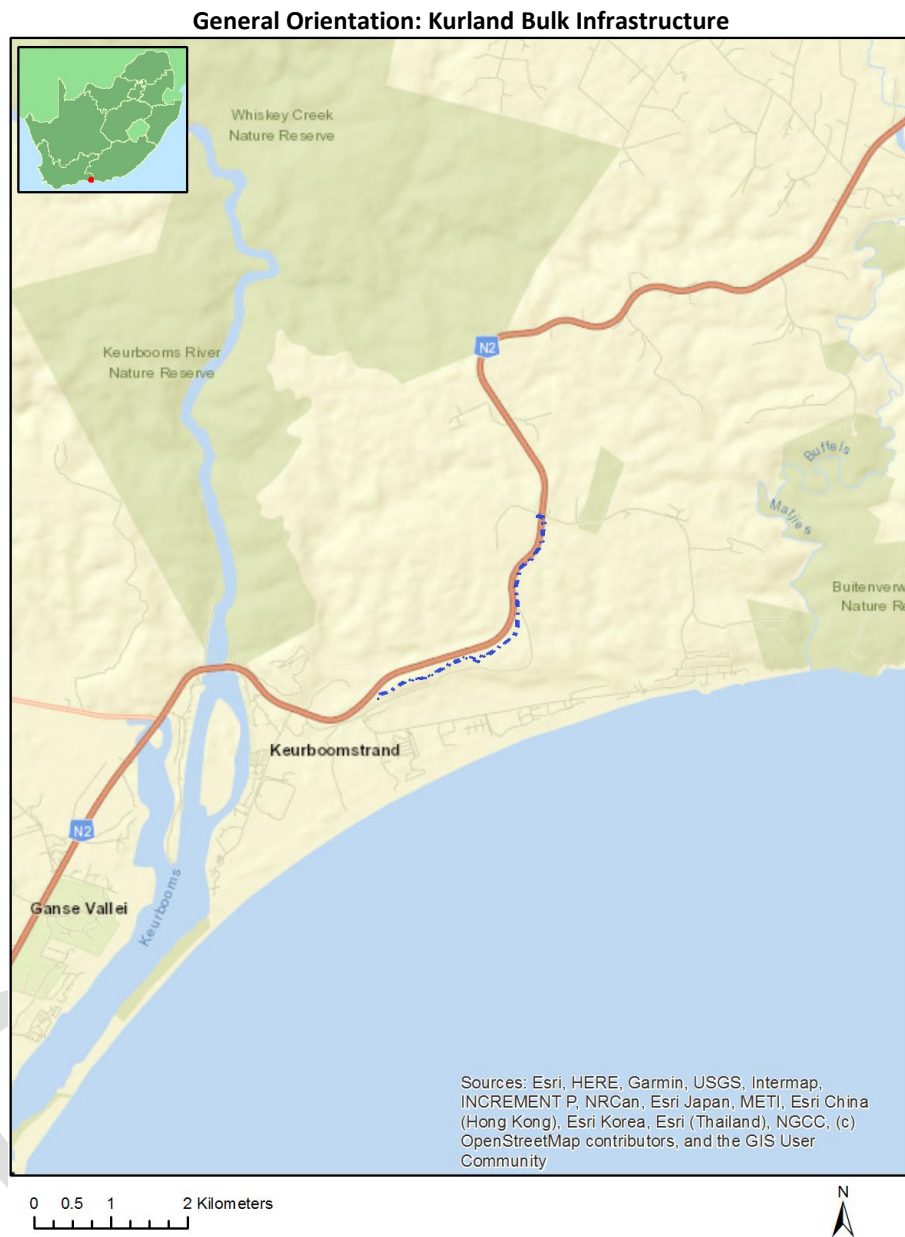
Application Category: Utilities Infrastructure|Pipelines|Water|Fresh_Storm Water

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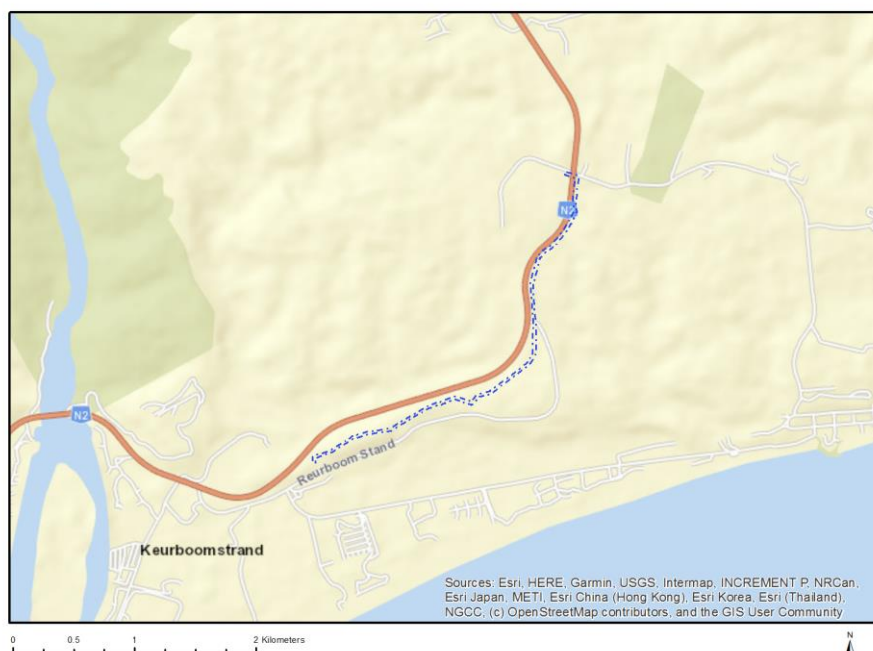
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Proposed Project Location

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		522	0	33°57'57.9S	23°24'31.69E	Farm
2		304	0	34°0'27.67S	23°25'11.39E	Farm
3		231	0	33°59'28.63S	23°26'15.32E	Farm
4		24	0	33°53'33.79S	23°23'10.99E	Farm Portion
5		231	0	33°59'22.89S	23°26'14.46E	Farm Portion
6		304	157	34°0'7.03S	23°25'34.21E	Farm Portion
7		231	0	33°59'31.85S	23°26'16.09E	Farm Portion
8		304	120	34°0'21.23S	23°25'9.19E	Farm Portion
9		304	160	34°0'18.95S	23°25'7.95E	Farm Portion
10		304	2	34°0'8.38S	23°25'47.79E	Farm Portion
11		304	177	34°0'7.44S	23°25'37.77E	Farm Portion
12		231	1	33°59'25.3S	23°26'16.04E	Farm Portion
13		231	0	33°59'28.03S	23°26'16.51E	Farm Portion
14		304	28	33°59'49.14S	23°26'7.5E	Farm Portion
15		522	4	33°59'38.62S	23°26'5.57E	Farm Portion
16		304	176	34°0'11.99S	23°25'27.3E	Farm Portion
17		522	3	33°59'40.38S	23°26'33.8E	Farm Portion
18		304	178	34°0'3.34S	23°25'53.22E	Farm Portion
19		304	17	33°59'57.42S	23°26'12.29E	Farm Portion
20		304	175	34°0'16.88S	23°25'12.6E	Farm Portion
21		522	5	33°59'49.03S	23°26'7.3E	Farm Portion
22		522	6	33°59'43.7S	23°26'6.62E	Farm Portion
23		304	179	33°59'56.33S	23°26'4.79E	Farm Portion

24		304	180	33°59'49.22S	23°26'7.2E	Farm Portion
25		304	41	33°59'55.14S	23°26'2.56E	Farm Portion
26		231	2	33°59'22.62S	23°26'12.53E	Farm Portion
27		304	120	34°0'21.78S	23°25'8.79E	Farm Portion

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

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No nearby wind or solar developments found.

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

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

Utilities Infrastructure| Pipelines| Water| Fresh_Storm Water.

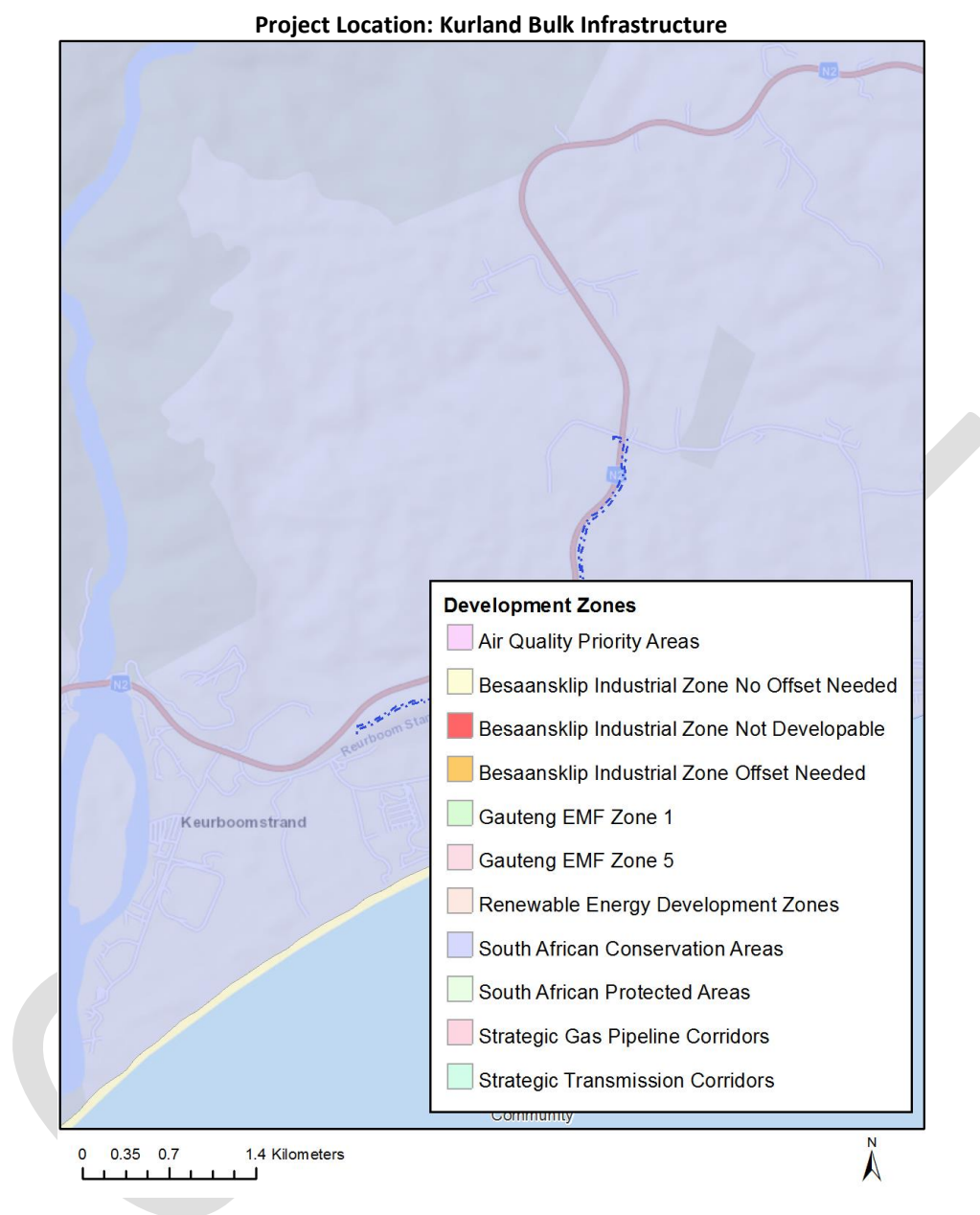
Relevant development incentives, restrictions, exclusions or prohibitions

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

Incentive, restriction or prohibition	Implication
South African Conservation Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACAD_OR_2021_Q3_Metadata.pdf

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.

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



Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme		X		
Animal Species Theme		X		

Aquatic Biodiversity Theme				X
Archaeological and Cultural Heritage Theme				X
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 environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

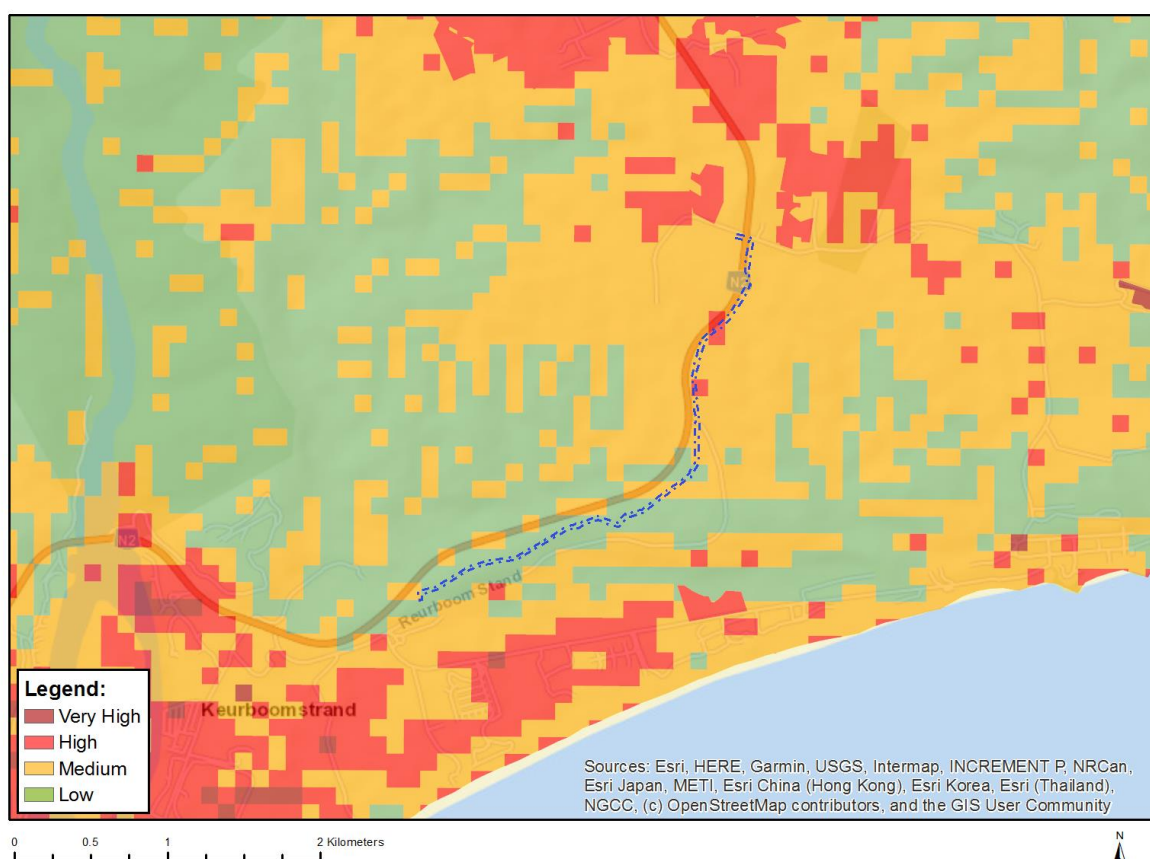
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Paleontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf

	ment	
7	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
9	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

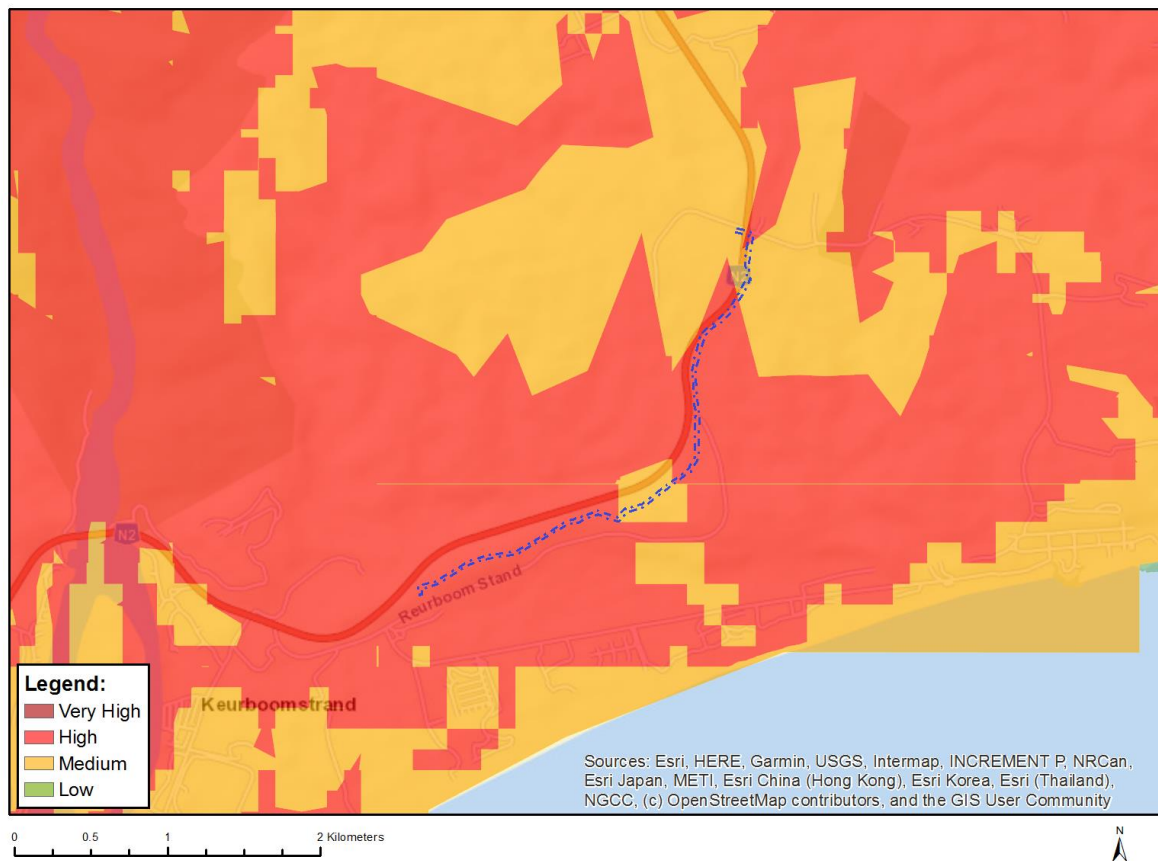


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
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.

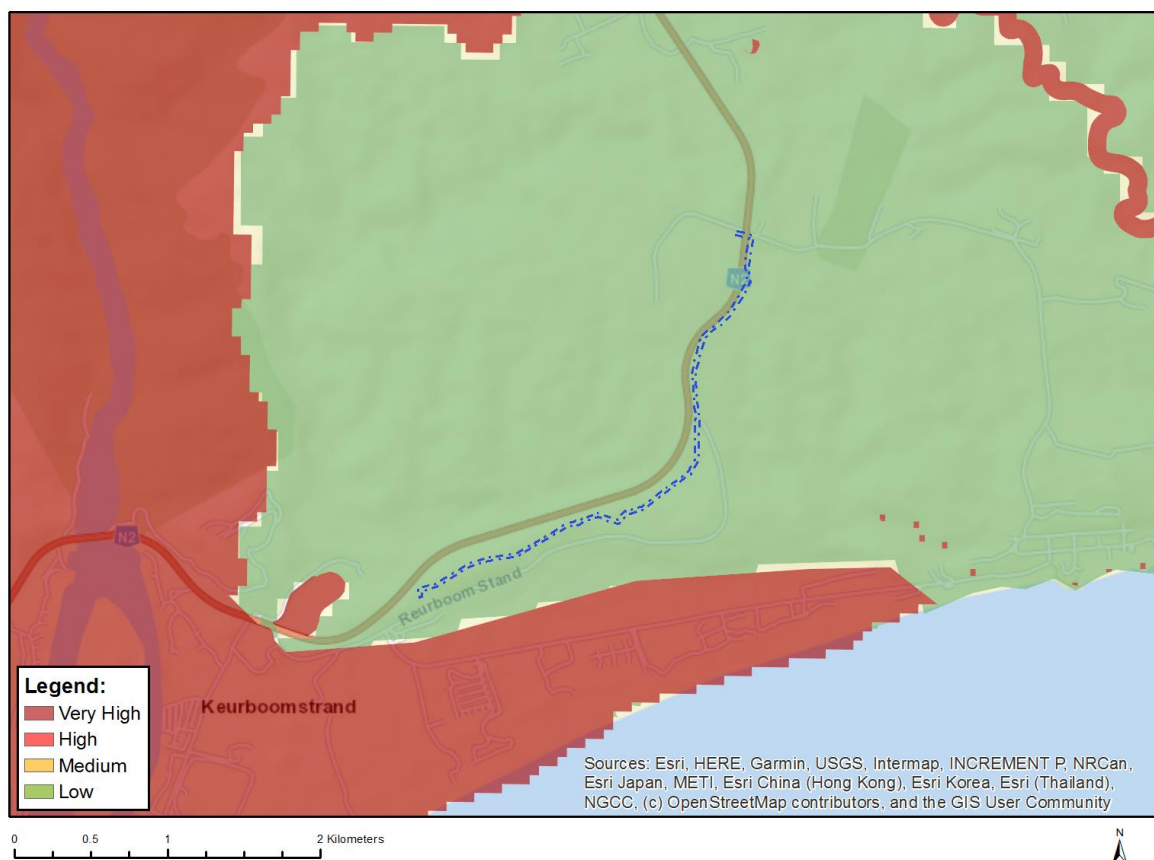
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Aves-Circus maurus
High	Aves-Bradypterus sylvaticus
High	Aves-Circus ranivorus
Medium	Invertebrate-Sarophorus punctatus
Medium	Invertebrate-Aneuryphymus montanus
Medium	Invertebrate-Forest invertebrate
Medium	Amphibia-Africalus knysnae
Medium	Aves-Circus ranivorus
Medium	Aves-Circus maurus
Medium	Aves-Neotis denhami
Medium	Aves-Bradypterus sylvaticus
Medium	Insecta-Aloeides thyra orientis
Medium	Insecta-Tsitana dicksoni

Medium	Mammalia-Chlorotalpa duthieae
Medium	Sensitive species 7

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

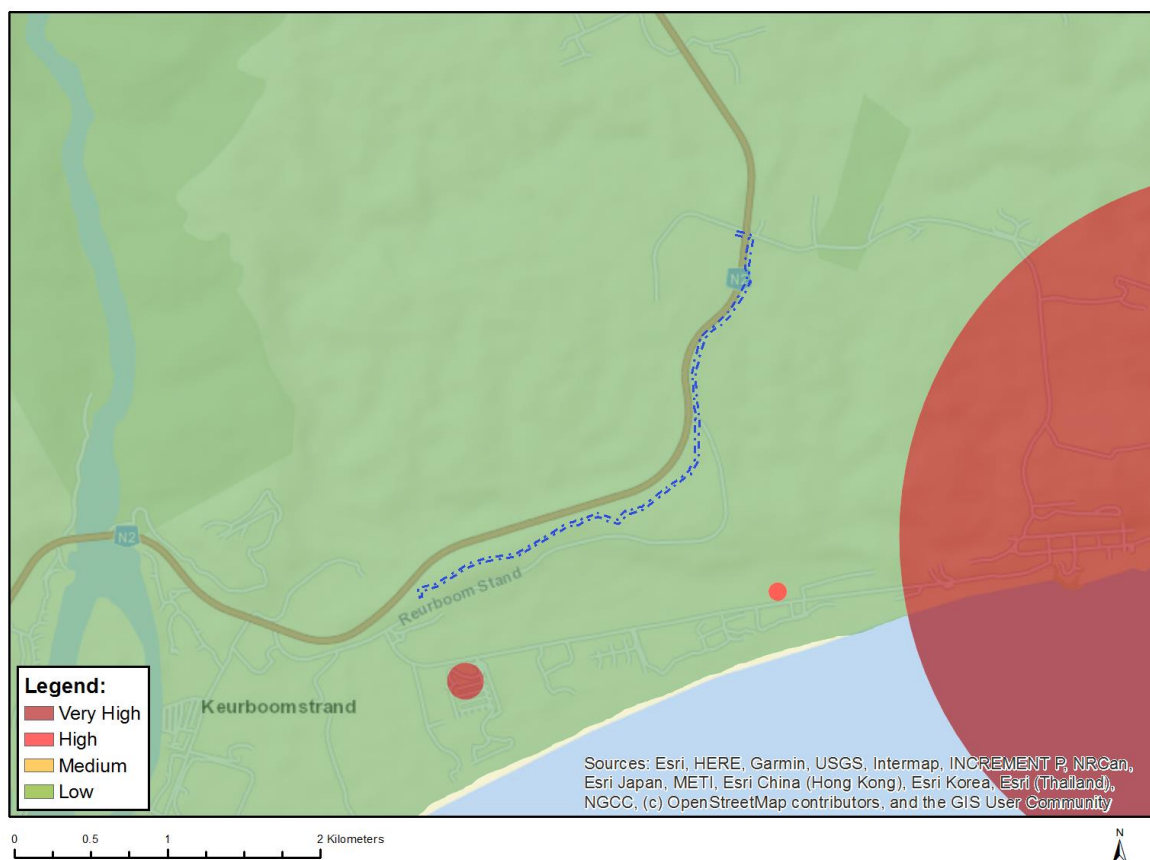


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

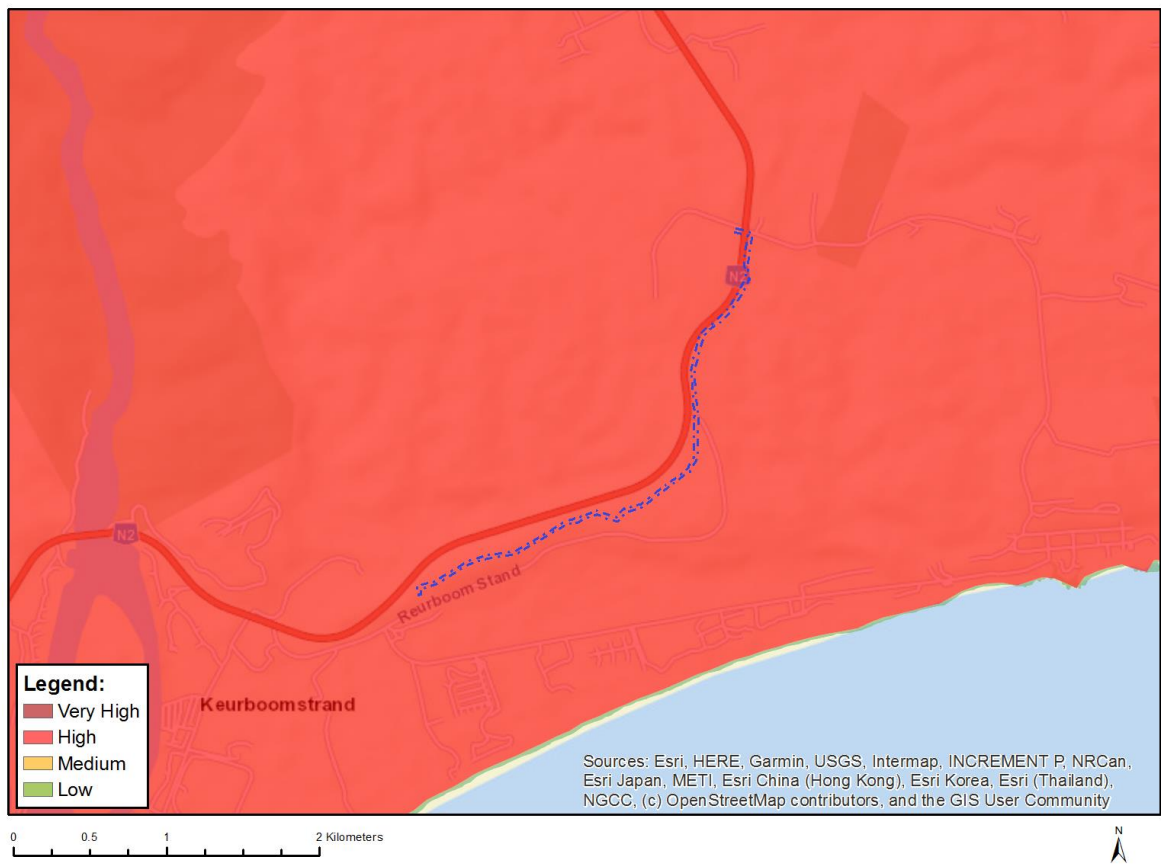


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

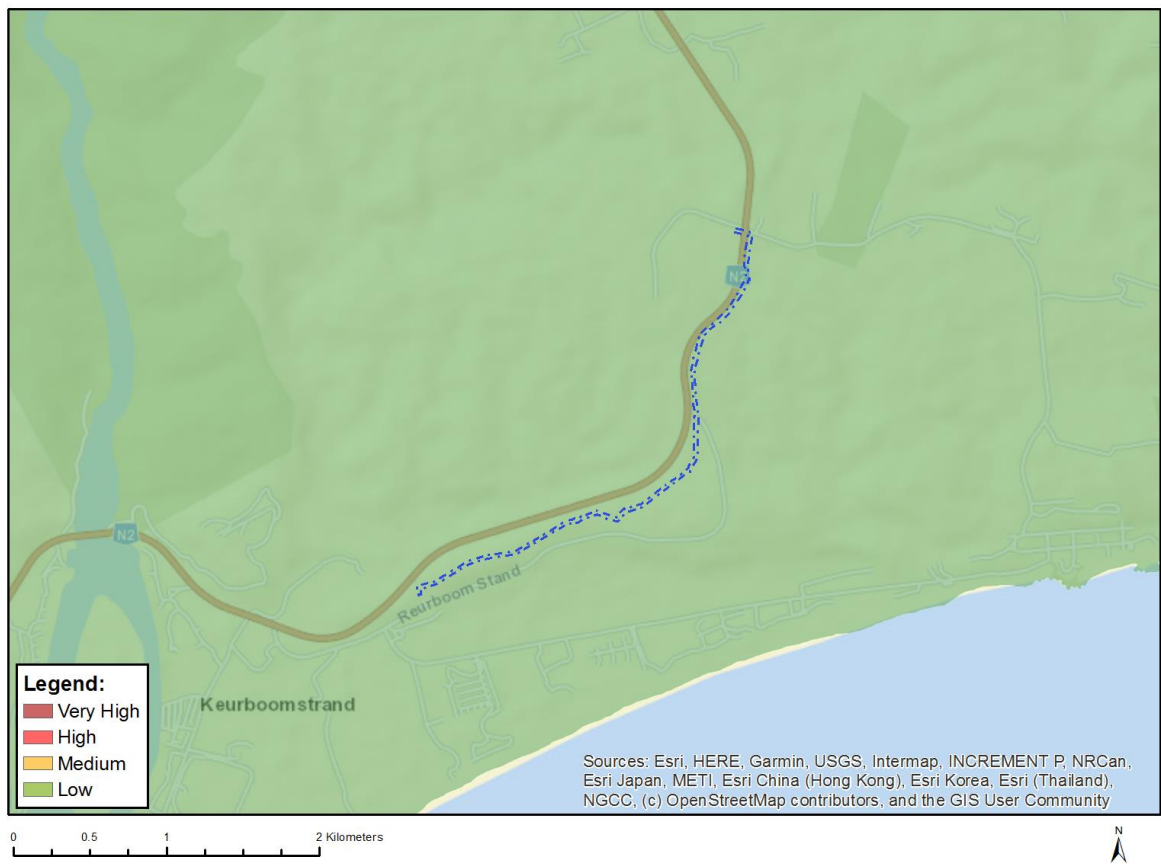


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 8 km of other civil aviation aerodrome

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

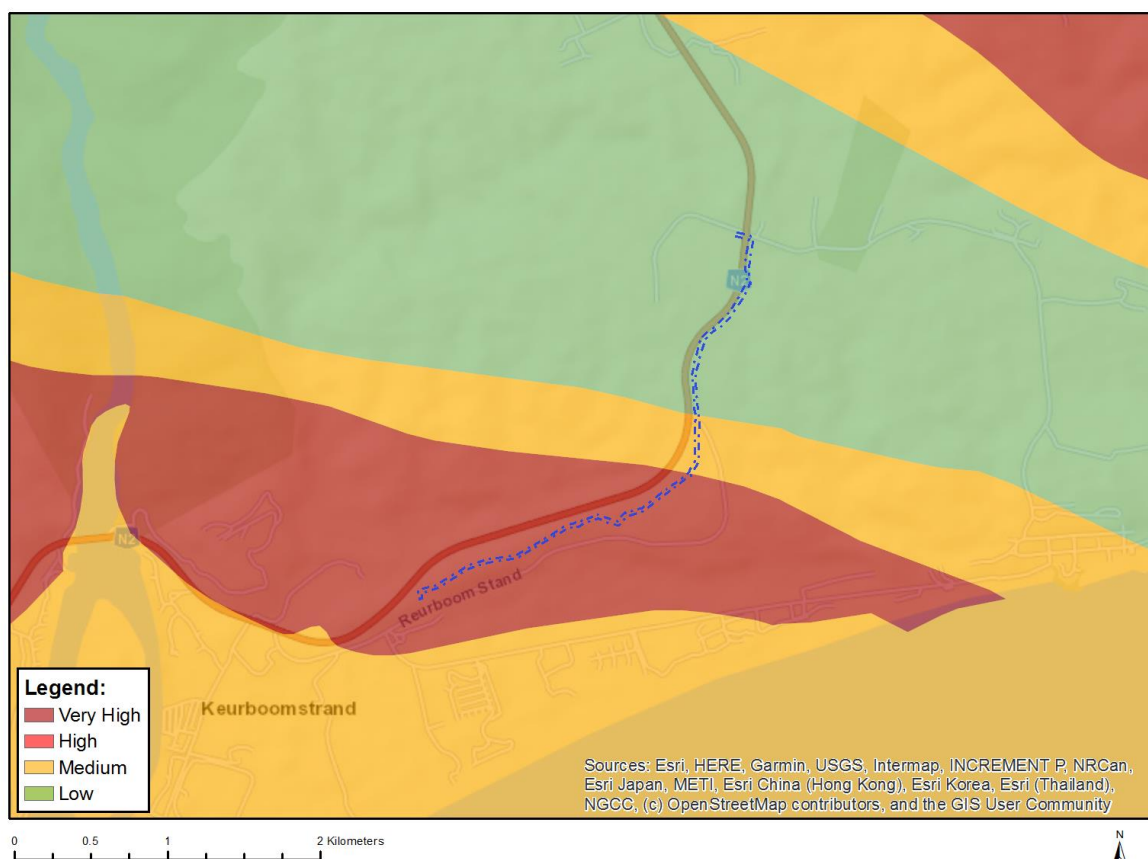


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

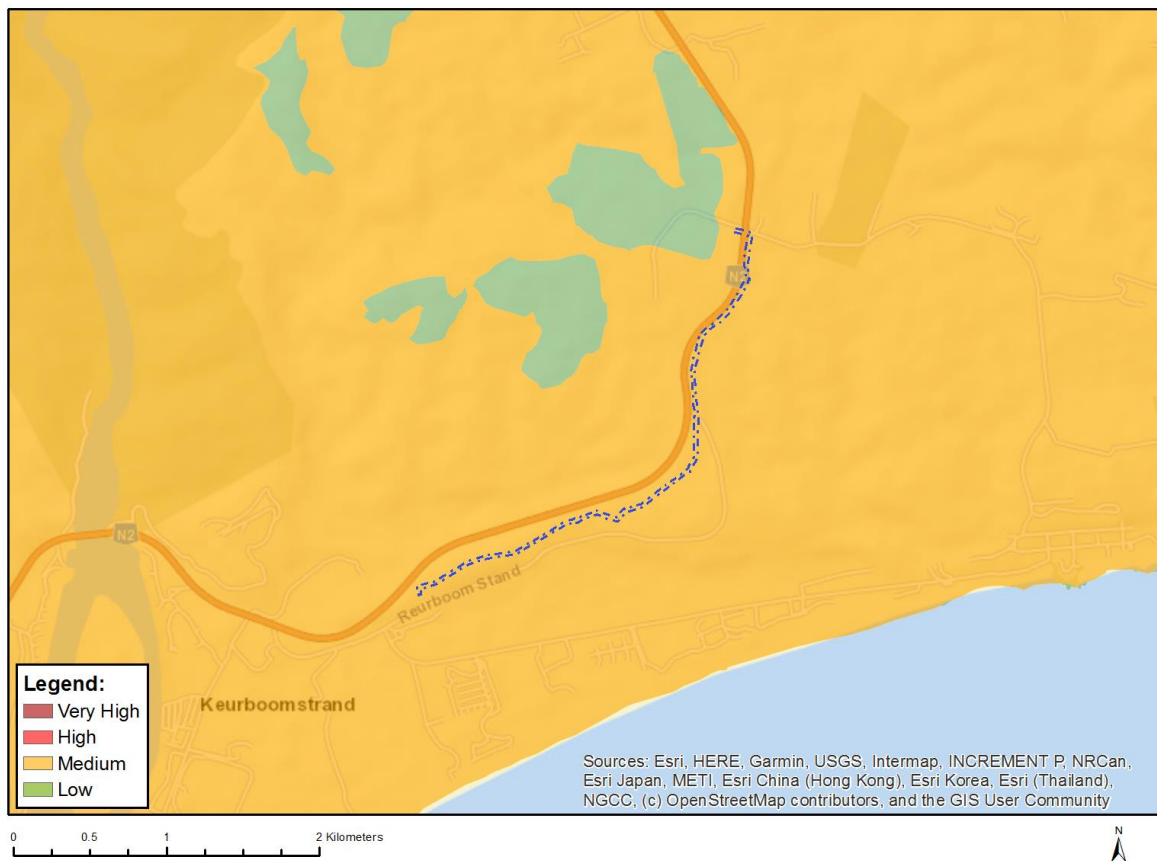


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

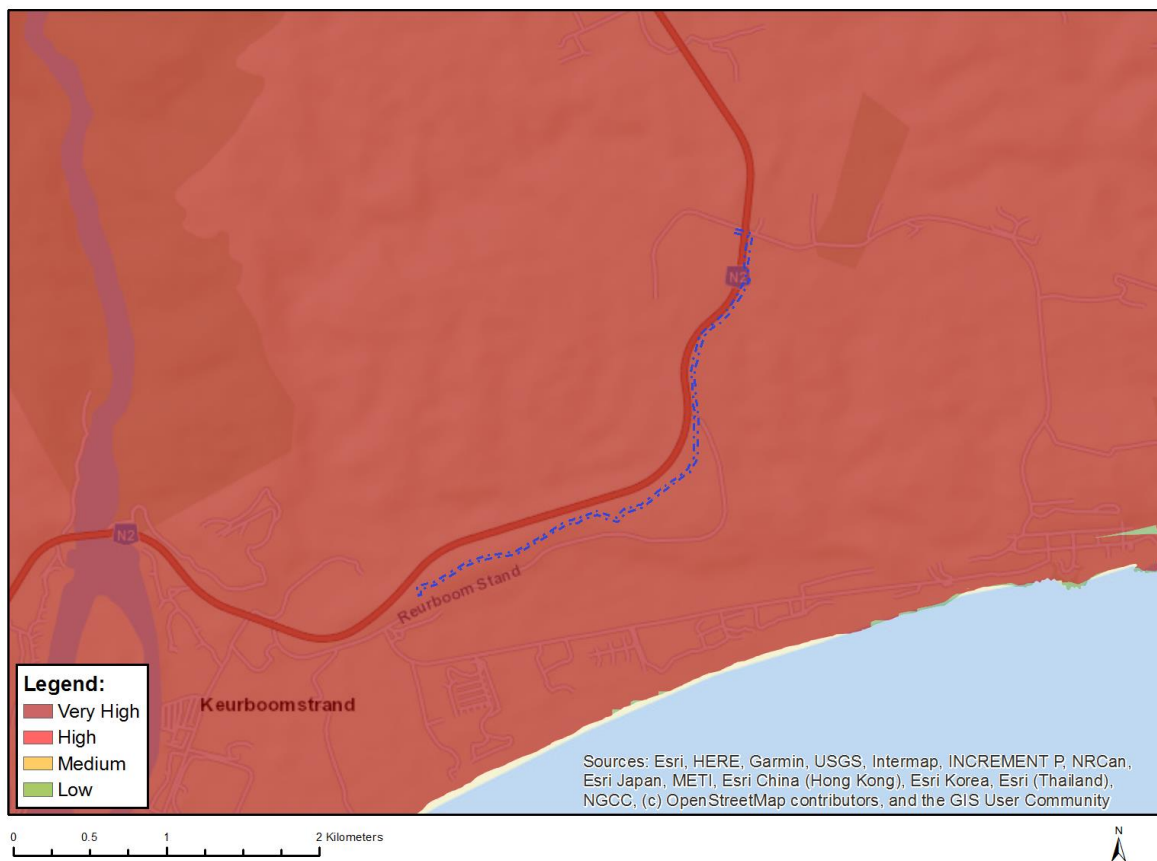
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Faurea macnaughtonii
Medium	Ocotea bullata
Medium	Ruschia duthiae
Medium	Indigofera hispida
Medium	Aspalathus bowieana
Medium	Sensitive species 131
Medium	Amauropelta knysnaensis
Medium	Leucospermum glabrum
Medium	Mimetes pauciflorus
Medium	Selago burchellii
Medium	Selago rotundifolia
Medium	Psydrax capensis
Medium	Sensitive species 419

Medium	<i>Erica onusta</i>
Medium	<i>Erica stylaris</i>
Medium	<i>Erica glandulosa</i> subsp. <i>fourcadei</i>
Medium	<i>Centella longifolia</i>
Medium	Sensitive species 1038
Medium	Sensitive species 181
Medium	<i>Pterygodium newdigateae</i>
Medium	<i>Felicia westae</i>
Medium	<i>Osteospermum pterigoideum</i>
Medium	<i>Acmadenia alternifolia</i>
Medium	<i>Muraltia knysnaensis</i>
Medium	<i>Erica glumiflora</i>
Medium	<i>Acrolophia lunata</i>
Medium	Sensitive species 763
Medium	<i>Pterygodium cleistogamum</i>

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Critical biodiversity area 1
Very High	Ecological support area 1

Very High	Ecological support area 2
Very High	National Forestry Inventory
Very High	Vulnerable ecosystem
Very High	Strategic Water Source Areas

APPENDIX I2: SCREENING TOOL B

PROPOSED ALTERNATIVE 1 - SOUTH OF N2

200MM RISING MAIN FROM NEW PUMP STATION TO
TIE-IN

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

EIA Reference number:

Project name: Kurland_Bulk Infrastructure

Project title: Proposed Alternative 1_Ø200mm Rising Main from New 0.6ML Res to Kurland

Date screening report generated: 28/02/2022 13:24:15

Applicant: Bitou Local Municipality

Compiler: SES_WA

Compiler signature:

Application Category: Utilities Infrastructure|Pipelines|Water|Fresh_Storm Water

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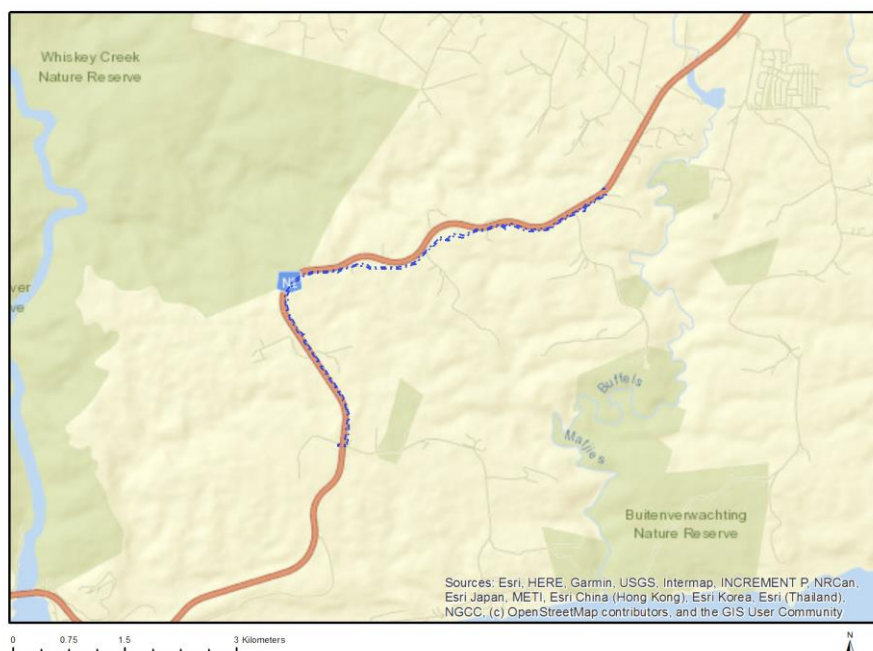
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Proposed Project Location

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		293	0	33°57'58.08S	23°26'46.41E	Farm
2		479	0	33°58'34.84S	23°26'14.02E	Farm
3		302	0	33°57'49.02S	23°28'54.27E	Farm
4		541	0	33°59'3.06S	23°26'21.25E	Farm
5		292	0	33°57'50.2S	23°27'34.2E	Farm
6		231	0	33°59'28.63S	23°26'15.32E	Farm
7		294	0	33°58'54.91S	23°26'6.64E	Farm
8		490	0	33°57'55.17S	23°27'51.01E	Farm
9		231	0	33°59'22.89S	23°26'14.46E	Farm Portion
10		293	3	33°58'2.47S	23°27'21.89E	Farm Portion
11		231	0	33°59'31.85S	23°26'16.09E	Farm Portion
12		292	1	33°57'55.79S	23°27'35.43E	Farm Portion
13		293	59	33°58'10.7S	23°26'19.91E	Farm Portion
14		293	87	33°57'57.91S	23°27'16.93E	Farm Portion
15		231	1	33°59'25.3S	23°26'16.04E	Farm Portion
16		231	0	33°59'28.03S	23°26'16.51E	Farm Portion
17		293	69	33°57'57.93S	23°27'6.91E	Farm Portion
18		293	3	33°58'3.92S	23°27'21.75E	Farm Portion
19		294	2	33°59'6.22S	23°26'17.66E	Farm Portion
20		293	32	33°58'11.63S	23°26'15.27E	Farm Portion
21		293	60	33°58'9.6S	23°26'29.57E	Farm Portion
22		231	2	33°59'22.62S	23°26'12.53E	Farm Portion
23		292	0	33°57'49.43S	23°27'34.23E	Farm Portion

24		293	53	33°57'57.35S	23°27'15.77E	Farm Portion
25		293	20	33°58'12.81S	23°26'32.43E	Farm Portion
26		293	4	33°58'14.42S	23°26'1.81E	Farm Portion
27		293	81	33°58'3.35S	23°26'58.16E	Farm Portion
28		293	7	33°58'4.19S	23°27'8.32E	Farm Portion
29		293	90	33°57'59.97S	23°27'7.36E	Farm Portion
30		293	68	33°58'0.39S	23°26'58.33E	Farm Portion
31		293	63	33°58'10.69S	23°26'38.11E	Farm Portion
32		293	67	33°58'5.81S	23°26'52.79E	Farm Portion
33		294	2	33°59'6.03S	23°26'17.54E	Farm Portion
34		479	5	33°58'19.01S	23°25'53.09E	Farm Portion
35		292	0	33°57'57.13S	23°27'36.34E	Farm Portion
36		293	37	33°58'9.29S	23°26'45.42E	Farm Portion
37		293	89	33°58'13.42S	23°26'47.31E	Farm Portion
38		293	7	33°58'1.66S	23°27'8.74E	Farm Portion
39		294	13	33°58'22.11S	23°25'52.01E	Farm Portion
40		479	7	33°58'21.18S	23°25'53.54E	Farm Portion
41		490	1	33°57'55.17S	23°27'29.65E	Farm Portion
42		293	31	33°58'12.79S	23°26'0.86E	Farm Portion
43		293	55	33°57'54.91S	23°27'25.56E	Farm Portion
44		293	79	33°58'25.23S	23°26'38.37E	Farm Portion
45		293	8	33°58'10.95S	23°26'58.25E	Farm Portion
46		294	11	33°59'5.34S	23°26'18.59E	Farm Portion
47		302	26	33°57'41.42S	23°28'13.49E	Farm Portion
48		490	0	33°57'58.99S	23°27'52.78E	Farm Portion
49		293	79	33°58'23.21S	23°26'30.58E	Farm Portion
50		293	21	33°58'5.52S	23°26'52.79E	Farm Portion
51		302	20	33°57'44.81S	23°28'13.92E	Farm Portion
52		479	4	33°58'34.91S	23°25'58.96E	Farm Portion
53		479	1	33°58'23.61S	23°26'5.37E	Farm Portion
54		541	1	33°59'11.85S	23°26'18.64E	Farm Portion
55		479	1	33°58'23.31S	23°26'5.38E	Farm Portion
56		479	0	33°58'40.98S	23°26'18.63E	Farm Portion
57		490	8	33°57'54.93S	23°27'29.56E	Farm Portion
58		479	6	33°58'12.28S	23°26'11.78E	Farm Portion
59		479	3	33°58'47.42S	23°26'7.81E	Farm Portion
60		490	5	33°57'49.55S	23°28'0.5E	Farm Portion
61		490	0	33°57'58.22S	23°27'52.82E	Farm Portion
62		541	0	33°59'3.06S	23°26'21.25E	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 nearby wind or solar developments found.

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

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

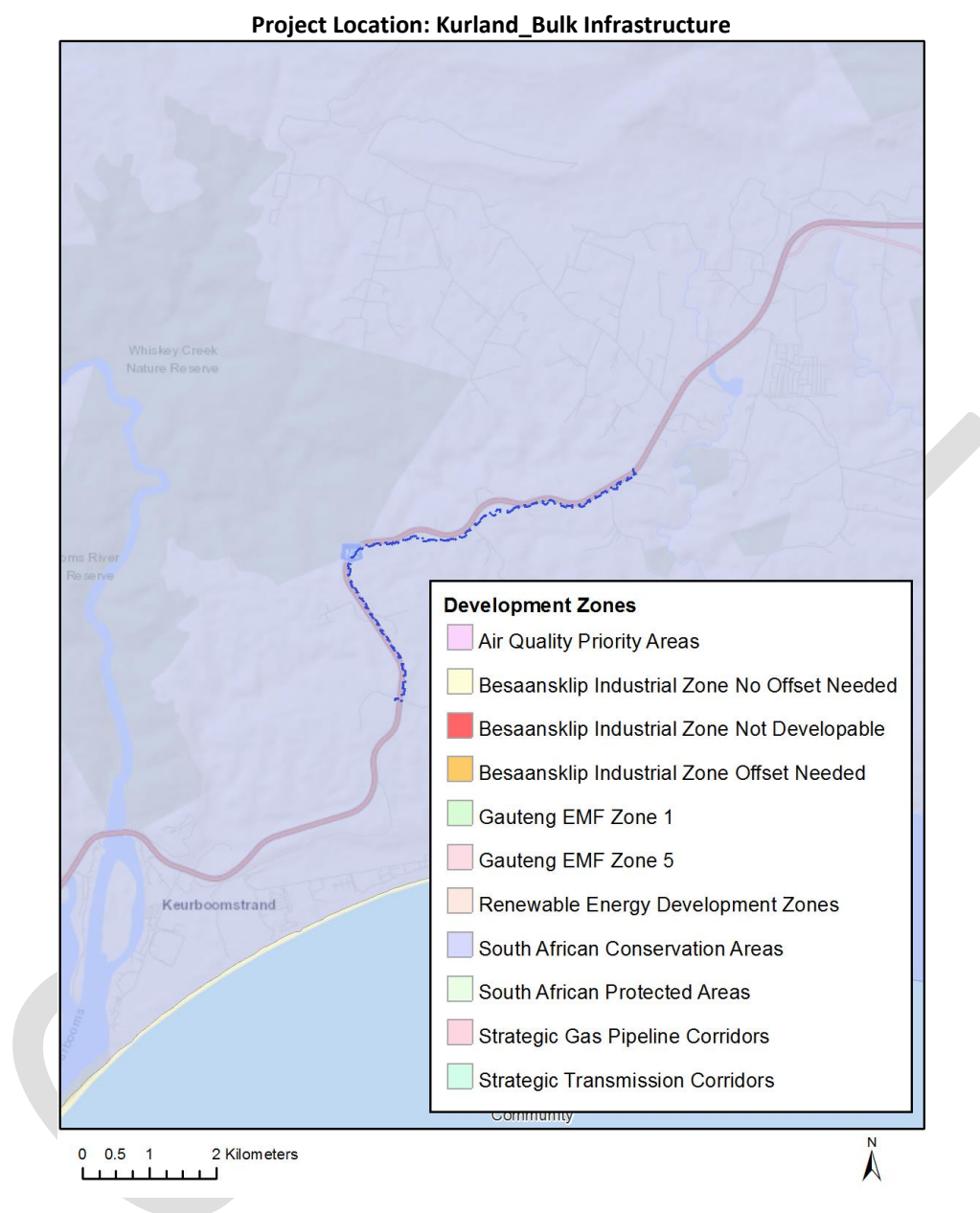
Utilities Infrastructure|Pipelines|Water|Fresh_Storm Water.

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
South African Protected Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SAPAD_OR_2021_Q3_Metadata.pdf
South African Conservation Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACAD_OR_2021_Q3_Metadata.pdf

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



Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme		X		
Animal Species Theme		X		

Aquatic Biodiversity Theme	X			
Archaeological and Cultural Heritage Theme				X
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 environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

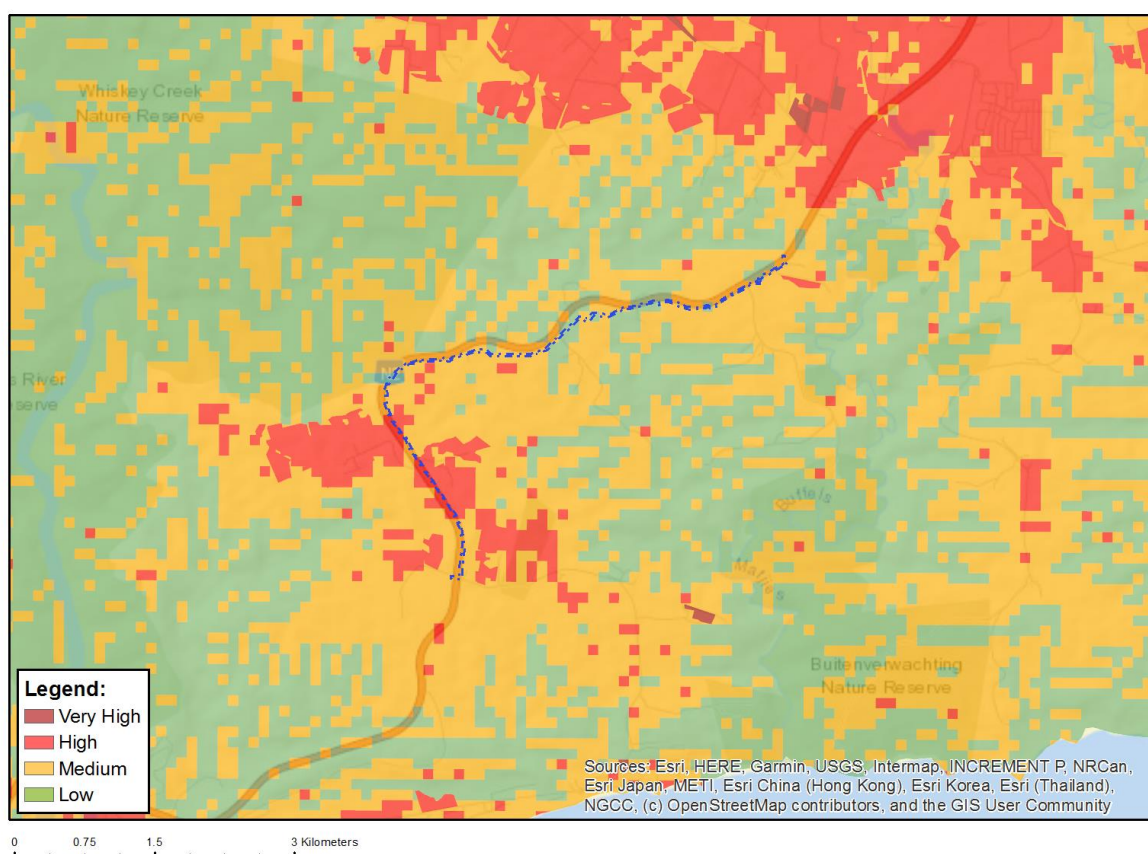
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Paleontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf
6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf

	ment	
7	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
9	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

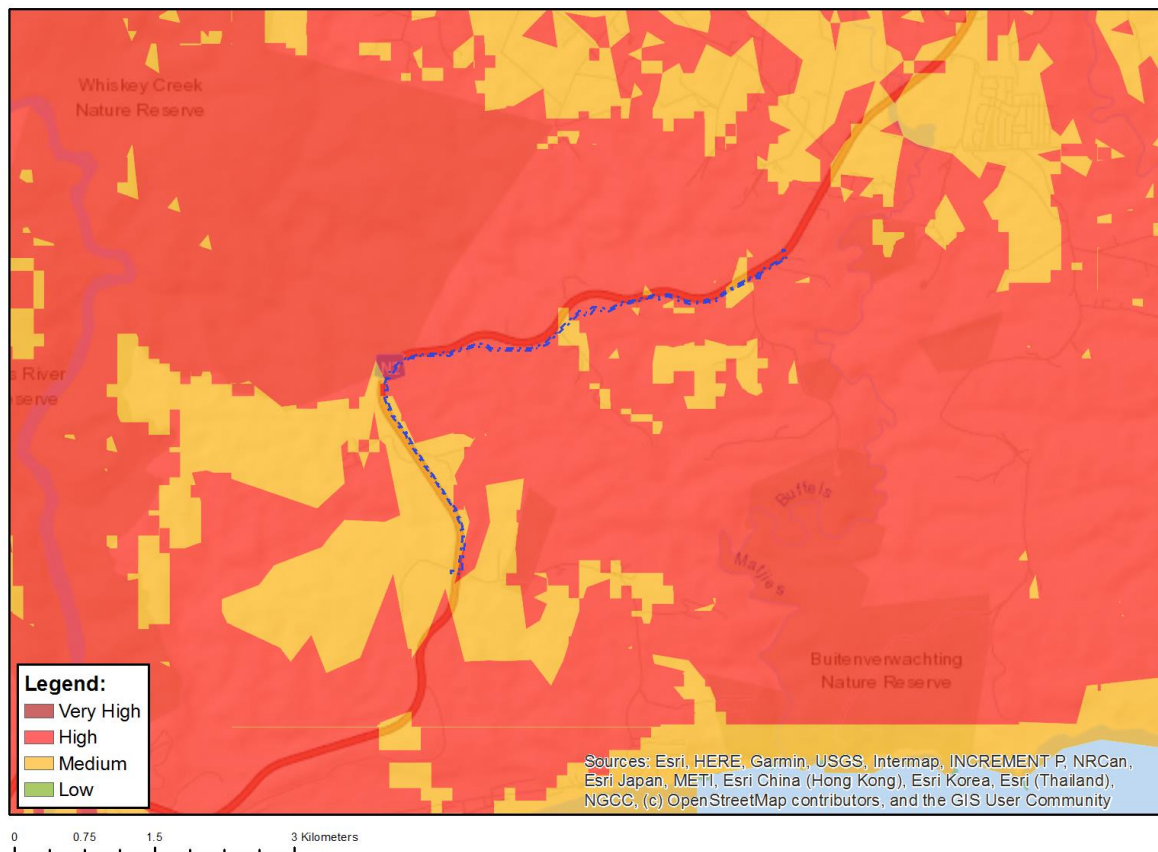


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
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



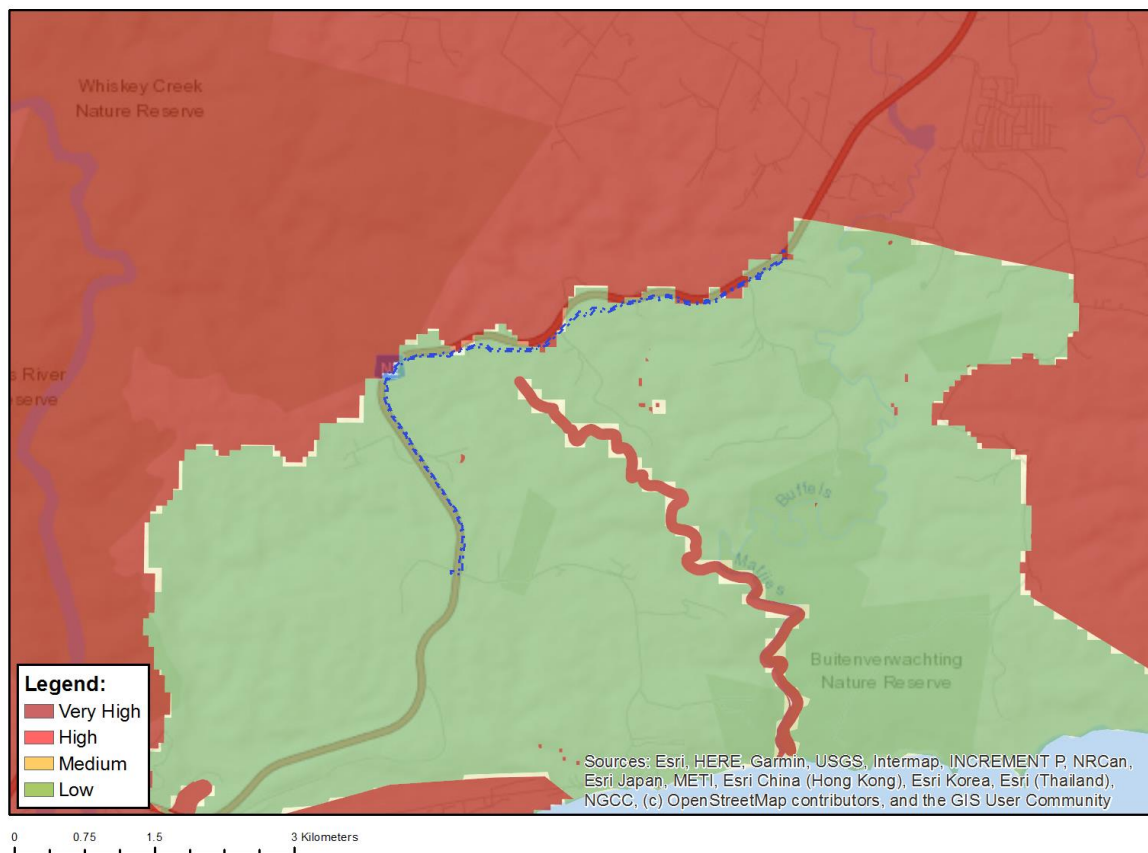
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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 maurus
High	Aves-Bradypterus sylvaticus
Medium	Invertebrate-Sarophorus punctatus
Medium	Invertebrate-Aneuryphymus montanus
Medium	Invertebrate-Forest invertebrate
Medium	Amphibia-Africalus knysnae
Medium	Aves-Circus ranivorus
Medium	Aves-Neotis denhami
Medium	Aves-Turnix hottentottus
Medium	Insecta-Aloeides thyra orientis
Medium	Insecta-Tsitana dicksoni
Medium	Mammalia-Chlorotalpa duthieae
Medium	Sensitive species 7

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

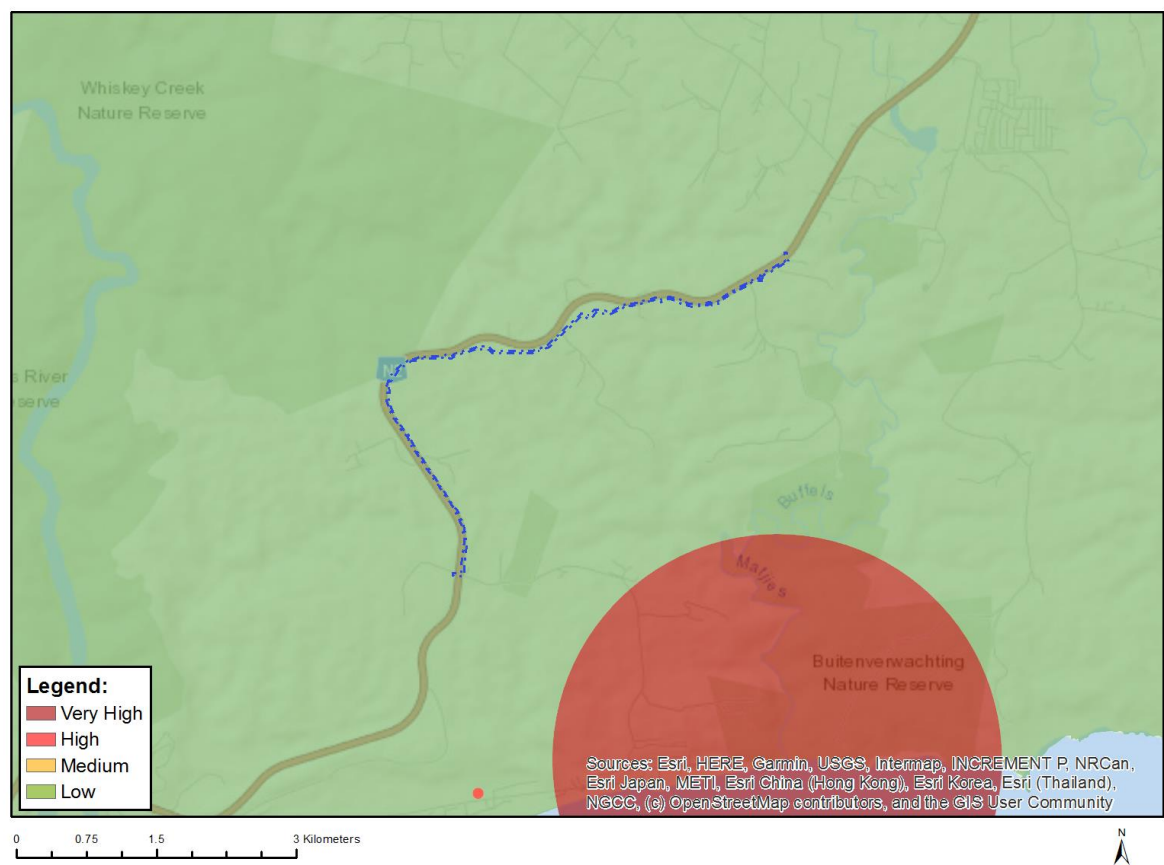


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Freshwater ecosystem priority area quinary catchments

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

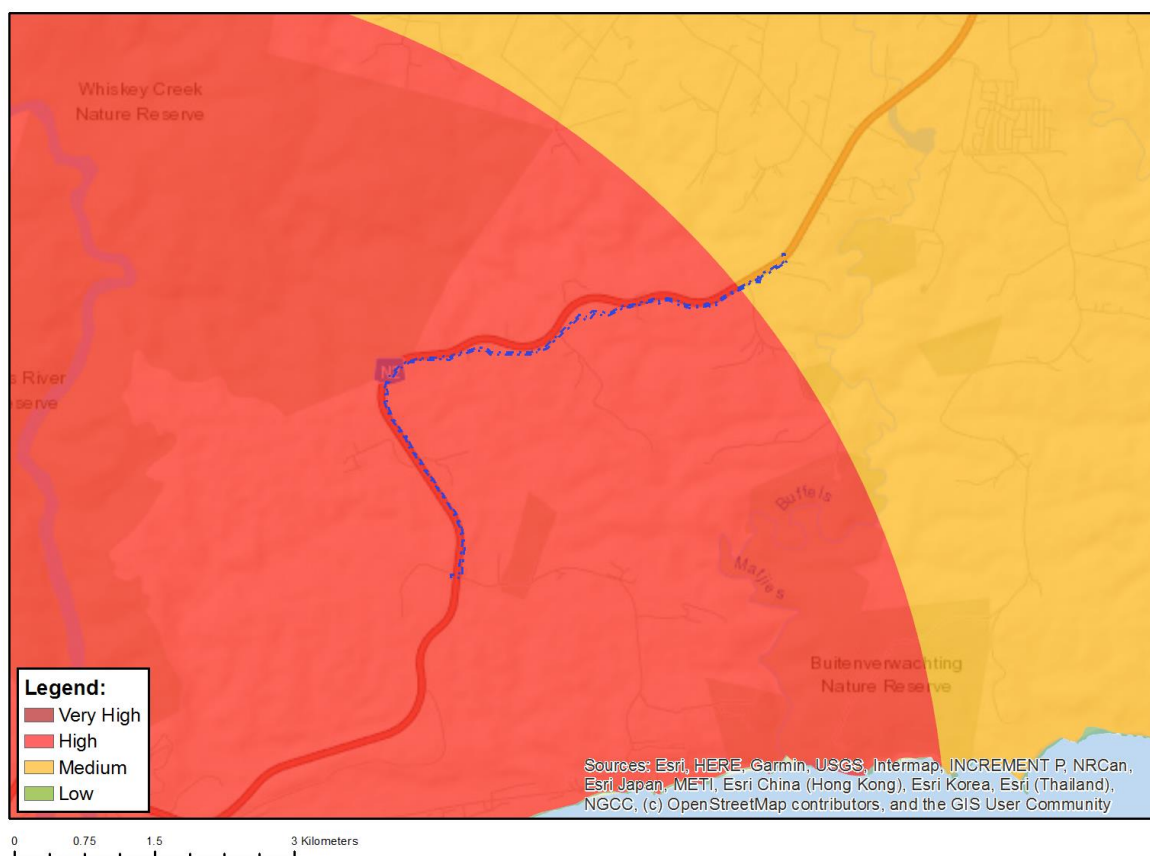


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

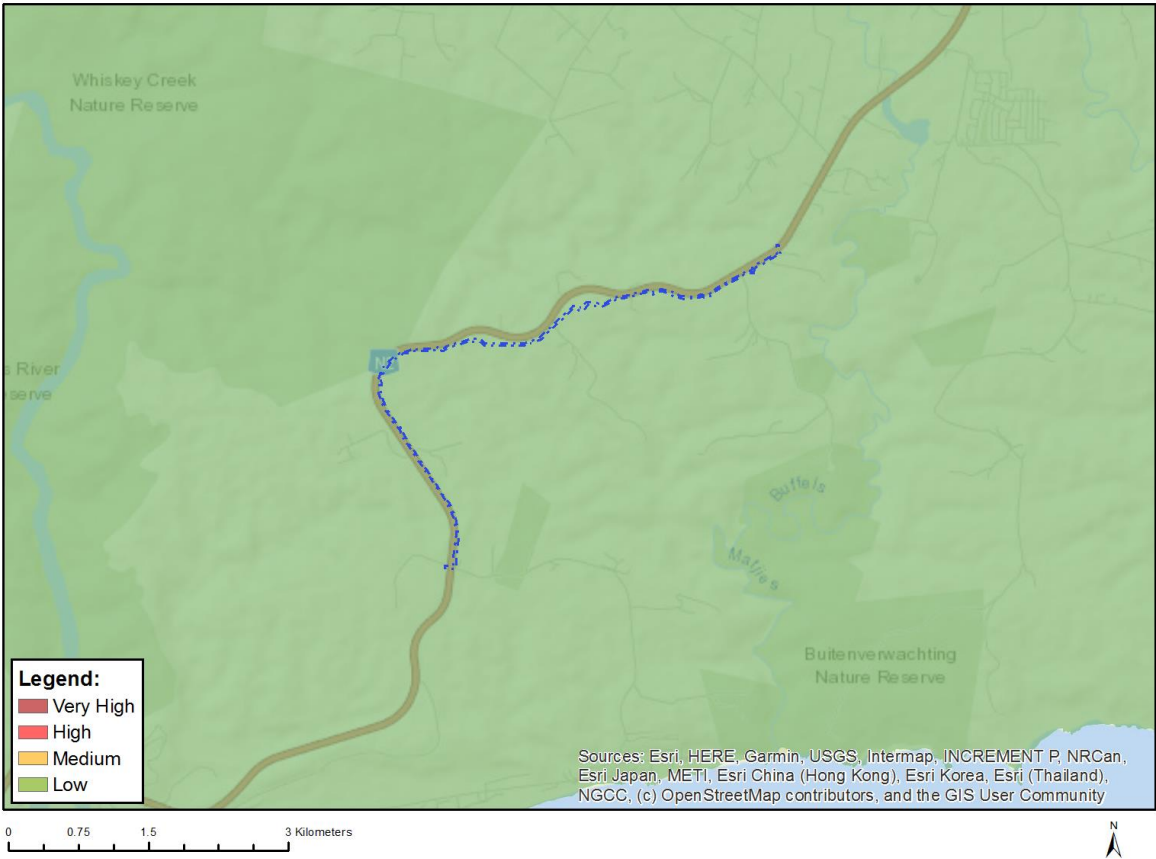


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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

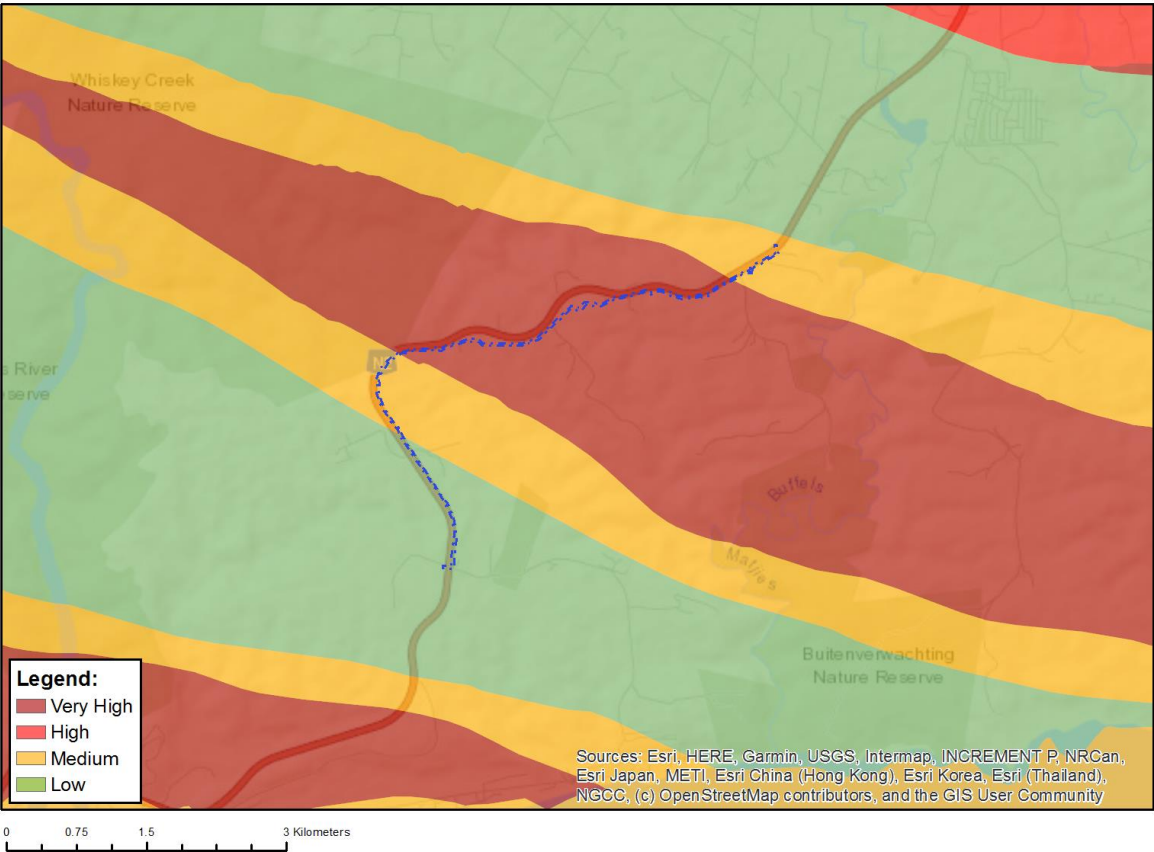


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

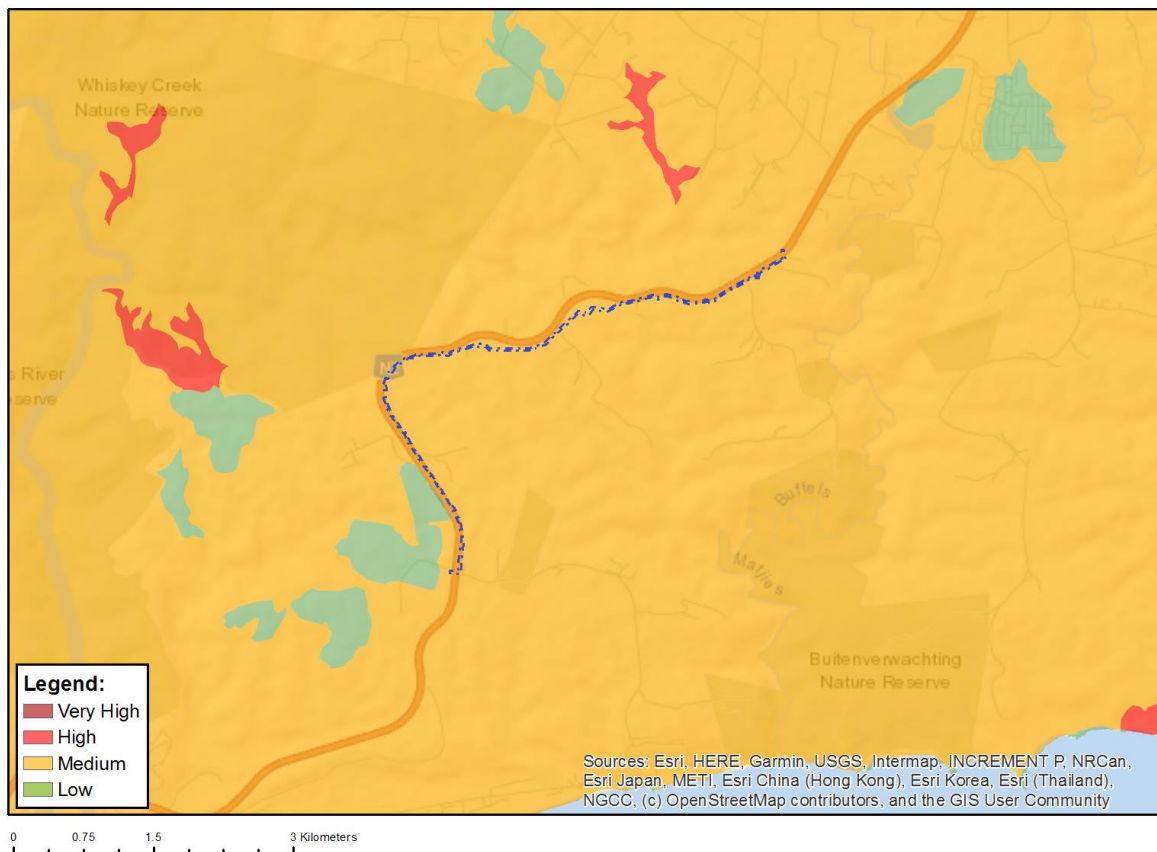


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

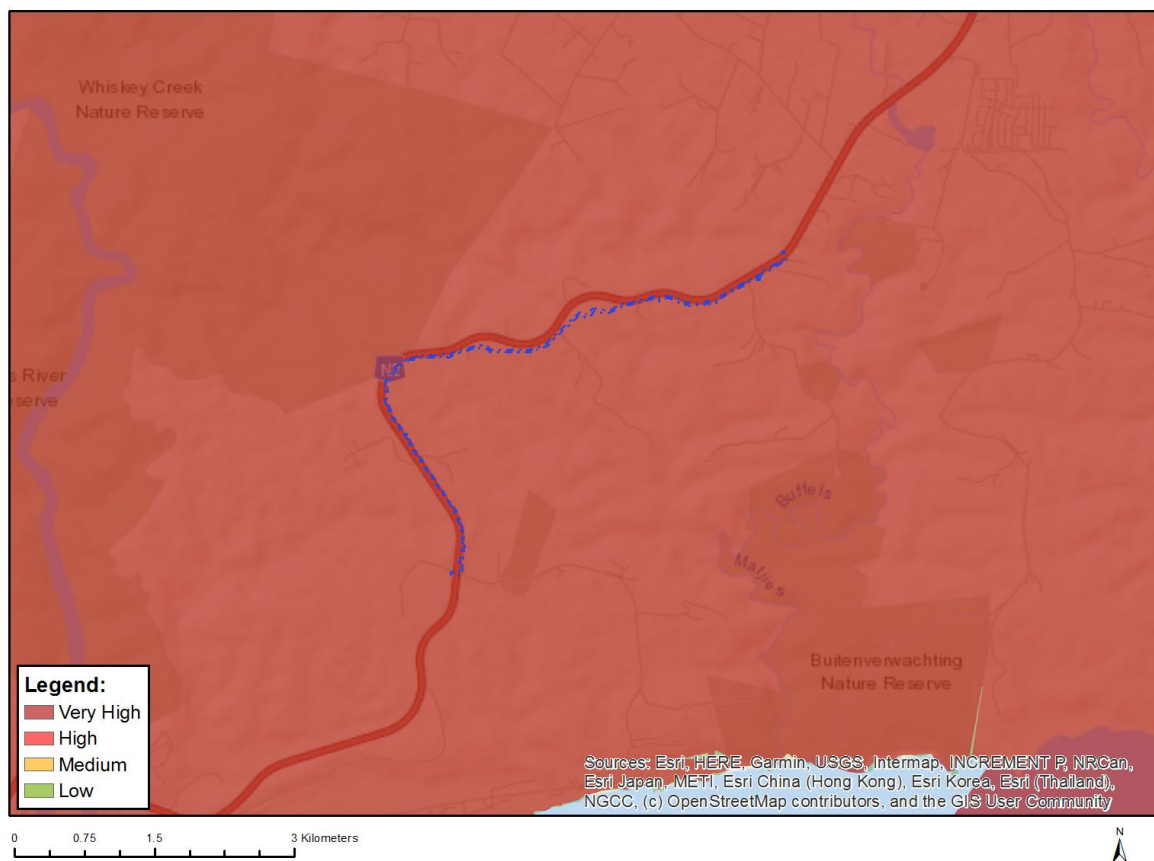
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Faurea macnaughtonii
Medium	Ocotea bullata
Medium	Ruschia duthiae
Medium	Indigofera hispida
Medium	Aspalathus bowieana
Medium	Sensitive species 131
Medium	Amauropelta knysnaensis
Medium	Leucospermum glabrum
Medium	Mimetes pauciflorus
Medium	Selago rotundifolia
Medium	Psyrax capensis
Medium	Sensitive species 419
Medium	Erica onusta

Medium	<i>Erica stylaris</i>
Medium	<i>Erica glandulosa</i> subsp. <i>fourcadei</i>
Medium	<i>Centella longifolia</i>
Medium	Sensitive species 1038
Medium	<i>Marsilea schelpeana</i>
Medium	<i>Felicia westae</i>
Medium	<i>Osteospermum pterigoideum</i>
Medium	<i>Acmadenia alternifolia</i>
Medium	<i>Muraltia knysnaensis</i>
Medium	Sensitive species 448
Medium	<i>Erica glumiflora</i>
Medium	Sensitive species 53
Medium	Sensitive species 654
Medium	<i>Acrolophia lunata</i>
Medium	Sensitive species 763
Medium	<i>Pterygodium cleistogamum</i>

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Critical biodiversity area 1

Very High	Ecological support area 1
Very High	Ecological support area 2
Very High	FEPA Subcatchments
Very High	Kiaruna Private Nature Reserve
Very High	Vulnerable ecosystem
Very High	Strategic Water Source Areas

APPENDIX I3: SCREENING TOOL C

PROPOSED ALTERNATIVE 2- NORTH OF N2

200MM RISING MAIN TO NEW UPPER
MATJIESFONTEIN RESERVOIR

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

EIA Reference number:

Project name: Kurland Bulk Infrastructure

Project title: Proposed Alternative 2_Ø200mm Supply Line To New Upper Matjiesfontein Reservoir

Date screening report generated: 23/02/2022 11:44:27

Applicant: BITOU LOCAL MUNICIPALITY

Compiler: SES_WA

Compiler signature:

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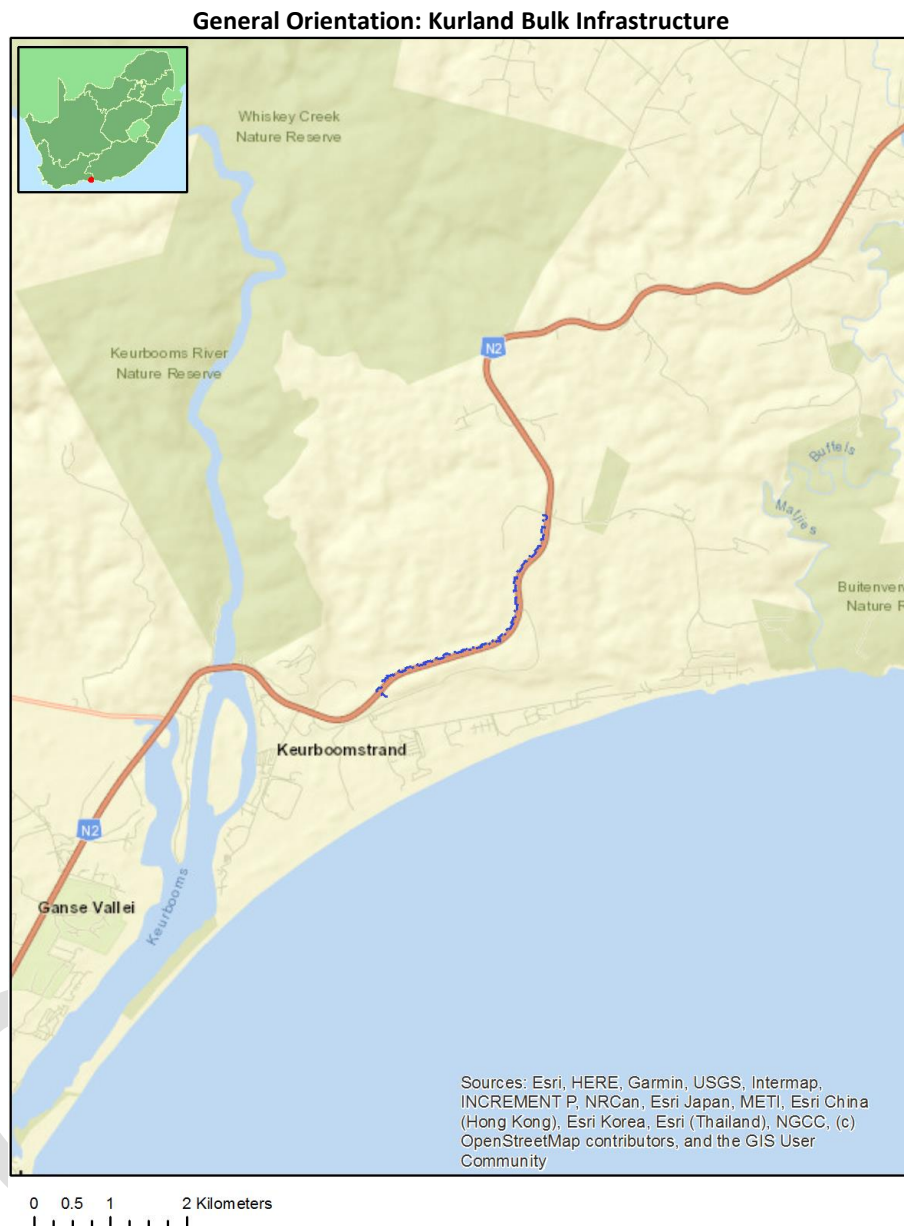
Application Category: Utilities Infrastructure|Pipelines|Water|Fresh_Storm Water

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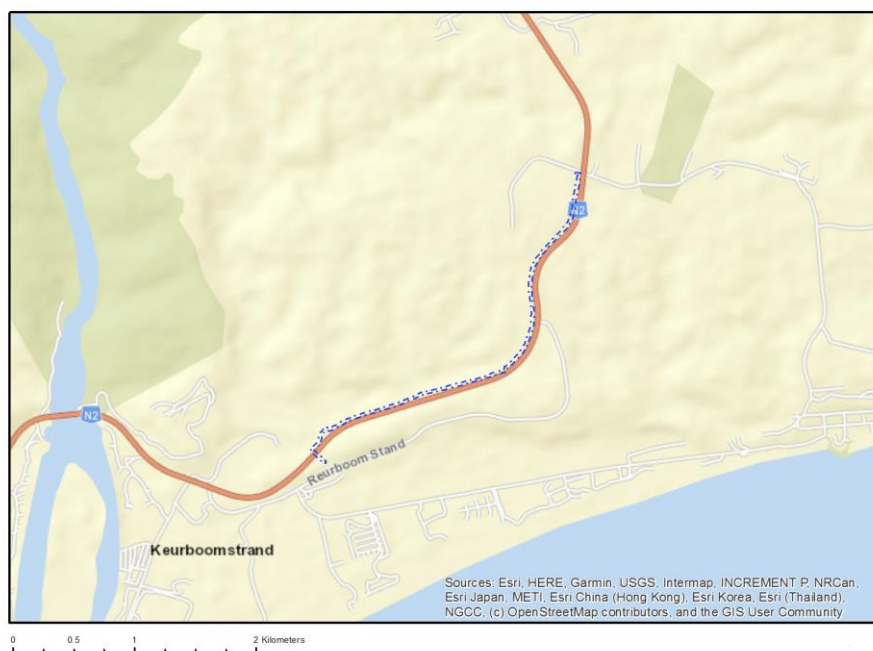
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Orientation map 1: General location	3
Map of proposed site and relevant area(s)	4
Cadastral details of the proposed site	4
Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area	5
Environmental Management Frameworks relevant to the application	5
Environmental screening results and assessment outcomes	5
Relevant development incentives, restrictions, exclusions or prohibitions	5
Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones	6
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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		231	0	33°59'28.63S	23°26'15.32E	Farm
2		304	0	34°0'27.67S	23°25'11.39E	Farm
3		522	0	33°57'57.9S	23°24'31.69E	Farm
4		24	0	33°53'33.79S	23°23'10.99E	Farm Portion
5		231	0	33°59'22.89S	23°26'14.46E	Farm Portion
6		304	157	34°0'7.03S	23°25'34.21E	Farm Portion
7		304	159	34°0'13.39S	23°25'12.7E	Farm Portion
8		304	120	34°0'21.23S	23°25'9.19E	Farm Portion
9		304	160	34°0'18.95S	23°25'7.95E	Farm Portion
10		304	29	34°0'3.32S	23°25'26.85E	Farm Portion
11		231	1	33°59'25.3S	23°26'16.04E	Farm Portion
12		231	0	33°59'28.03S	23°26'16.51E	Farm Portion
13		304	187	33°59'54.48S	23°25'59.99E	Farm Portion
14		304	158	34°0'4.06S	23°25'36.51E	Farm Portion
15		304	28	33°59'55.63S	23°25'33.68E	Farm Portion
16		304	184	34°0'2.13S	23°25'39.89E	Farm Portion
17		522	4	33°59'38.62S	23°26'5.57E	Farm Portion
18		522	7	33°59'40.14S	23°26'2.79E	Farm Portion
19		304	188	33°59'50.58S	23°26'2.43E	Farm Portion
20		304	41	33°59'55.14S	23°26'2.56E	Farm Portion
21		304	189	33°59'49.69S	23°26'5.38E	Farm Portion
22		304	181	34°0'10.05S	23°25'13.13E	Farm Portion
23		231	2	33°59'22.62S	23°26'12.53E	Farm Portion

24		304	2	33°59'59.13S	23°25'52.29E	Farm Portion
25		304	185	34°0'1.73S	23°25'43.89E	Farm Portion
26		304	186	33°59'57.05S	23°25'57.74E	Farm Portion
27		304	197	33°59'58.46S	23°25'52.38E	Farm Portion
28		304	28	34°0'4.06S	23°25'36.51E	Farm Portion
29		304	120	34°0'21.78S	23°25'8.79E	Farm Portion
30		304	156	33°59'54.62S	23°26'3.1E	Farm Portion
31		304	29	34°0'12.51S	23°25'7.29E	Farm Portion

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

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No nearby wind or solar developments found.

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

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

Utilities Infrastructure | Pipelines | Water | Fresh_Storm Water.

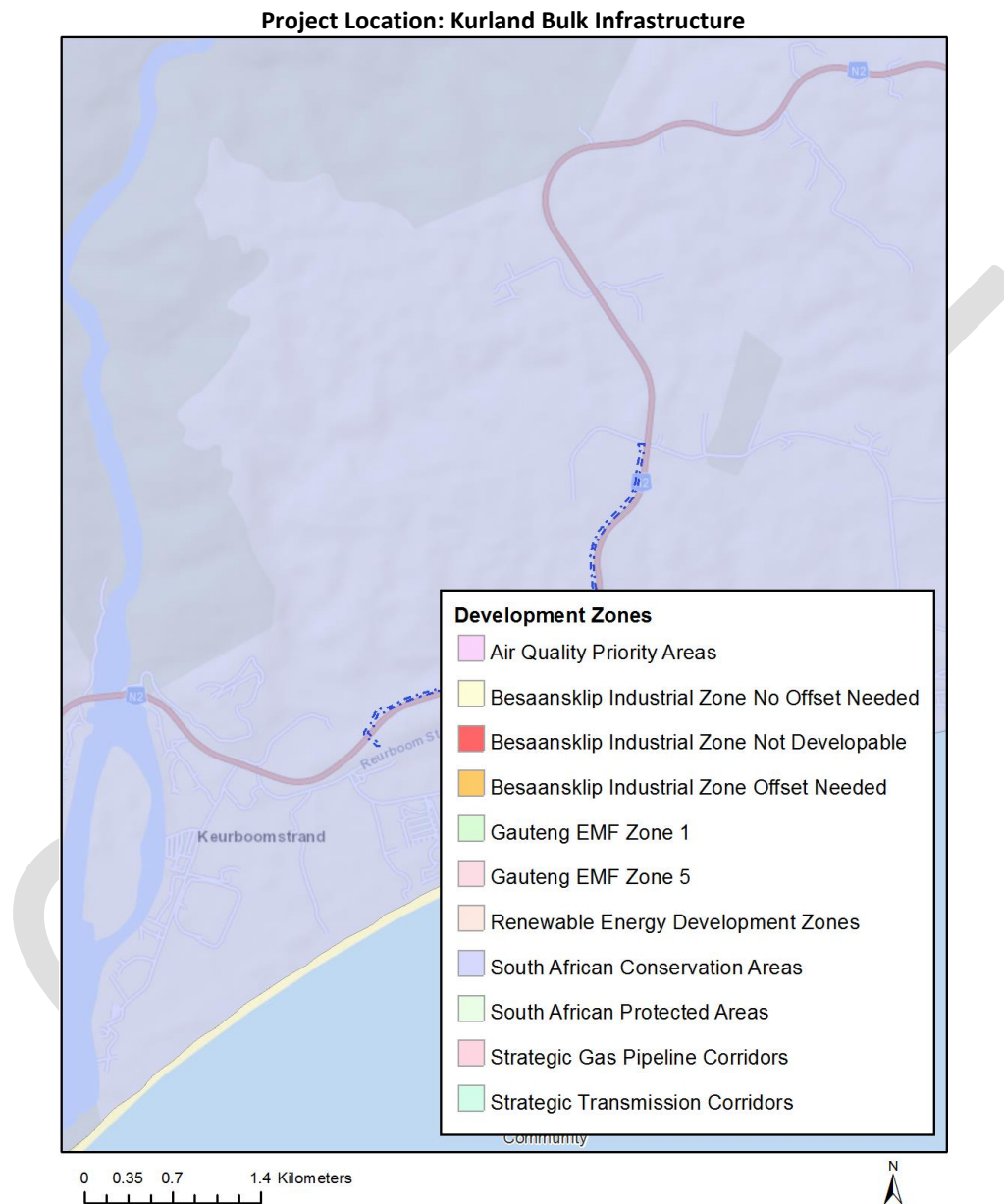
Relevant development incentives, restrictions, exclusions or prohibitions

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

Incentive, restriction or prohibition	Implication
South	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACA

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.

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



Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme		X		
Animal Species Theme		X		
Aquatic Biodiversity Theme				X
Archaeological and Cultural Heritage Theme				X
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 environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

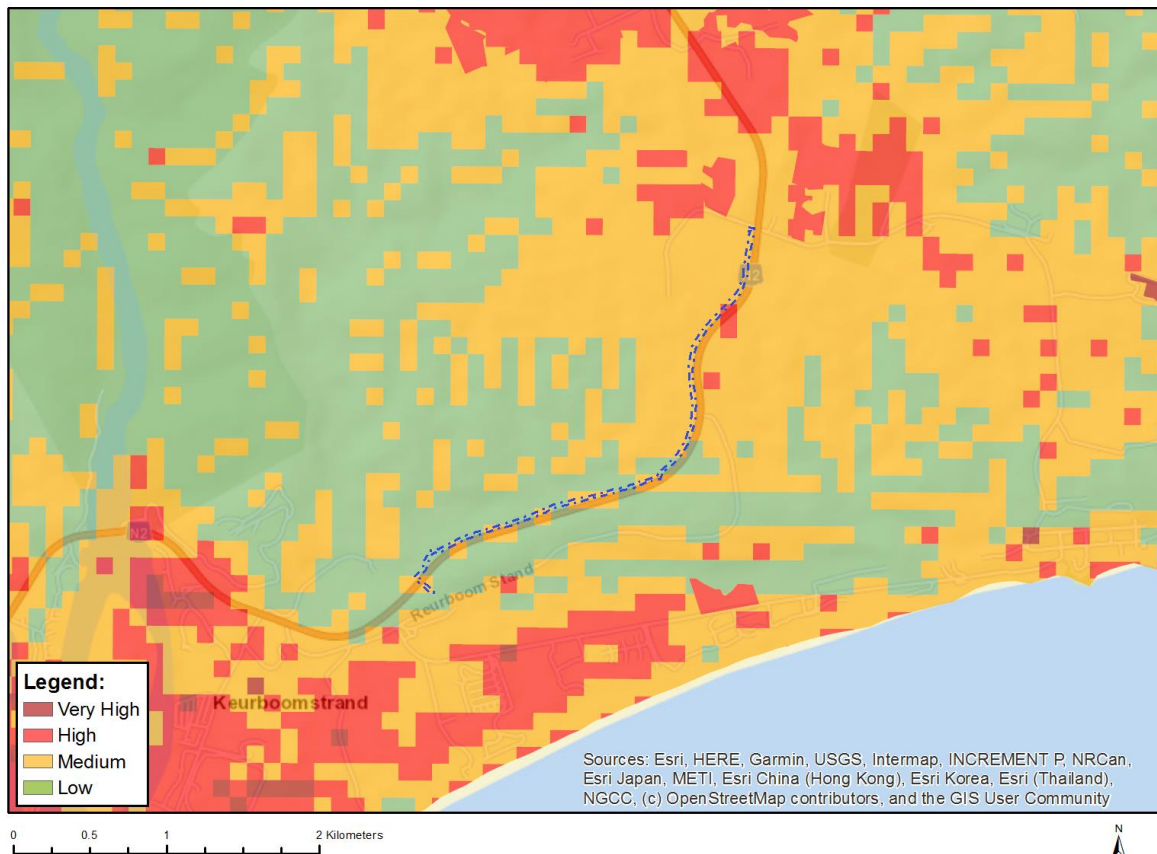
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Paleontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf

	Impact Assessment	
6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
7	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
9	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

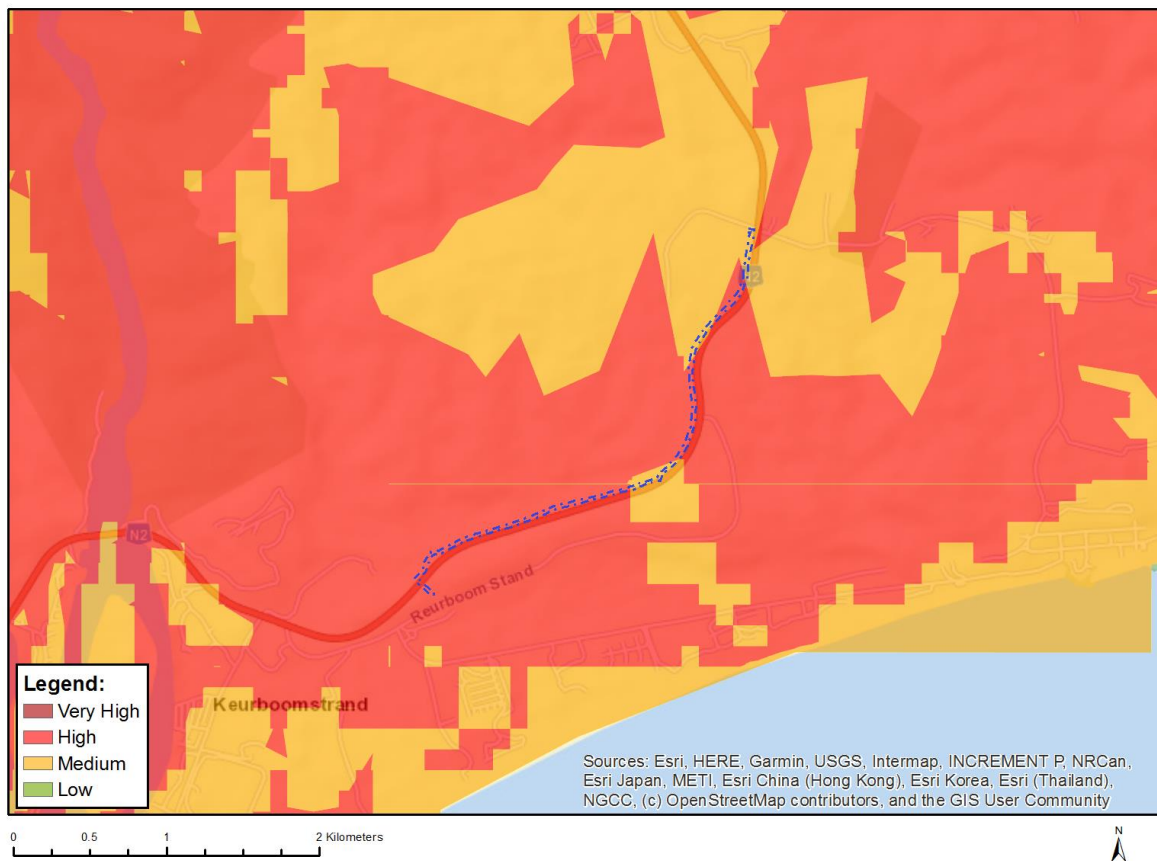


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
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.

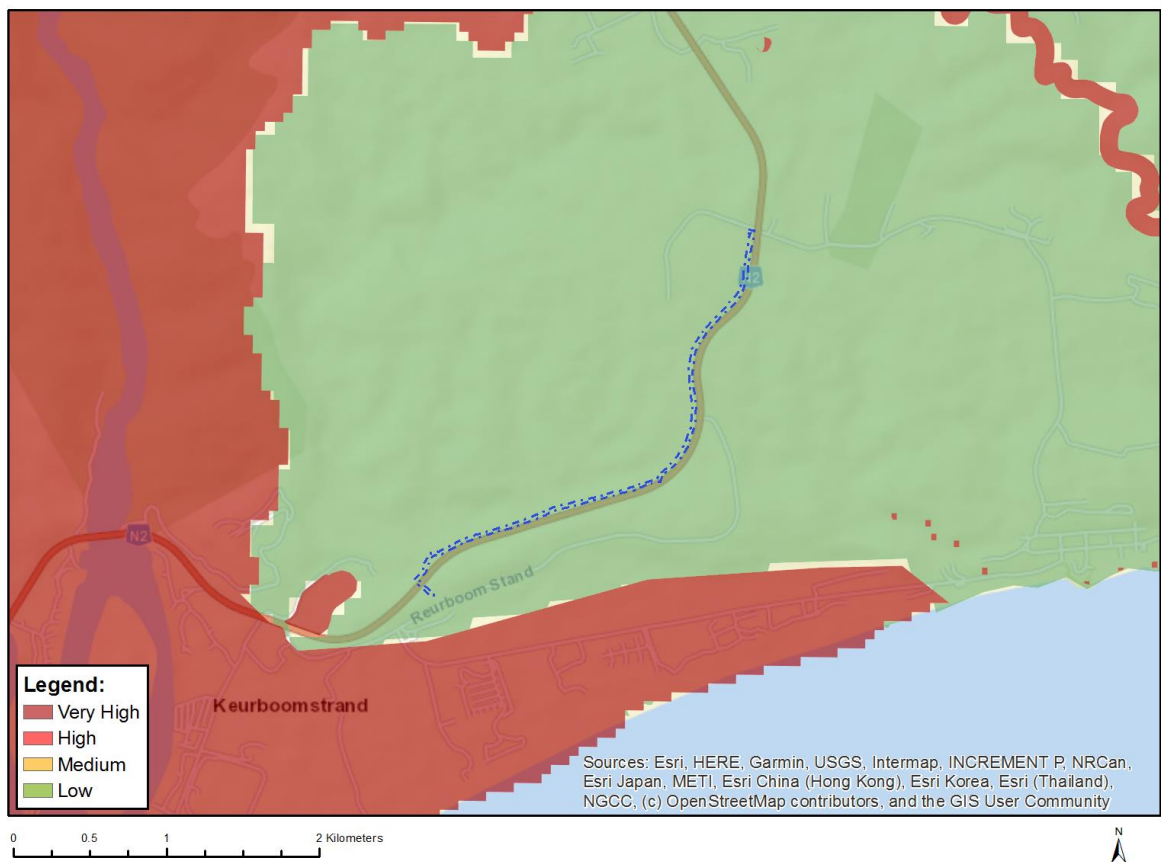
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Aves-Circus maurus
High	Aves-Bradypterus sylvaticus
High	Aves-Circus ranivorus
Medium	Invertebrate-Sarophorus punctatus
Medium	Invertebrate-Aneuryphymus montanus
Medium	Invertebrate-Forest invertebrate
Medium	Amphibia-Africalus knysnae
Medium	Aves-Circus ranivorus
Medium	Aves-Circus maurus
Medium	Aves-Bradypterus sylvaticus
Medium	Insecta-Aloeides thyra orientis
Medium	Insecta-Tsitana dicksoni
Medium	Mammalia-Chlorotalpa duthieae

Medium	Sensitive species 7
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MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

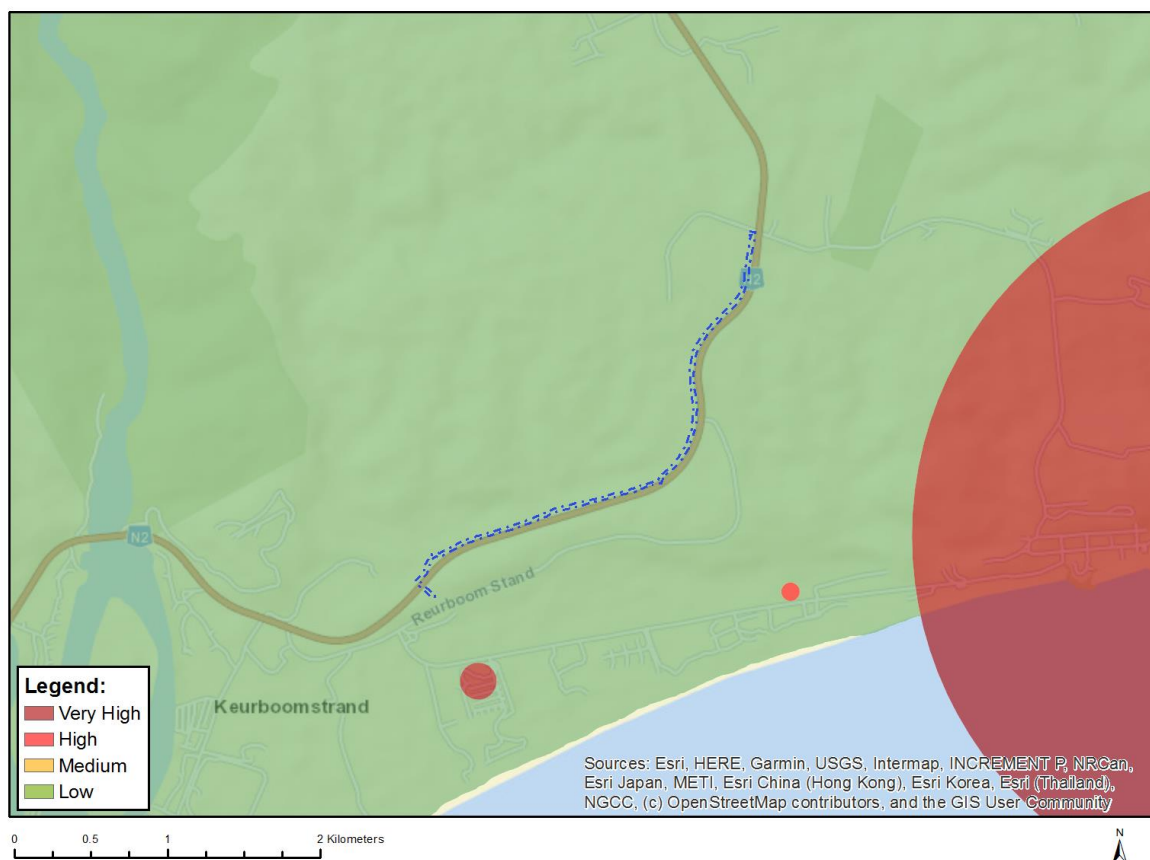


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

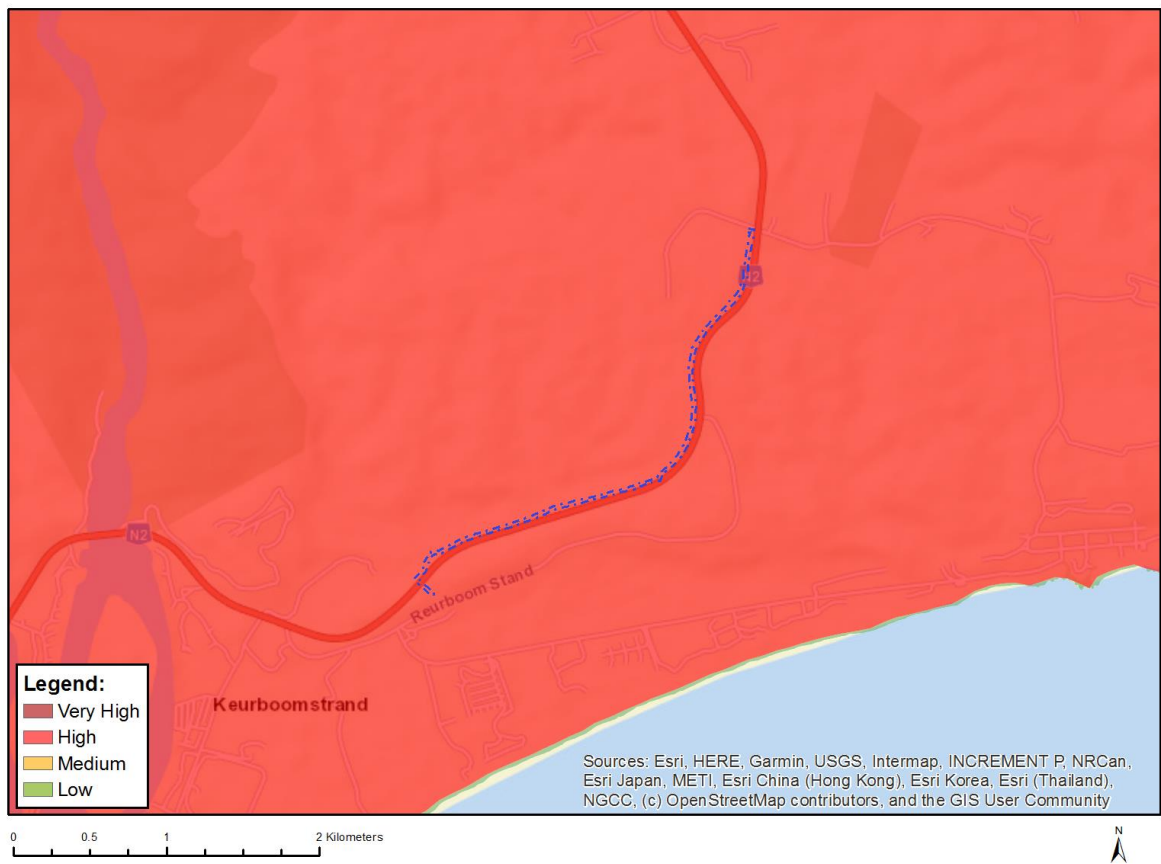


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

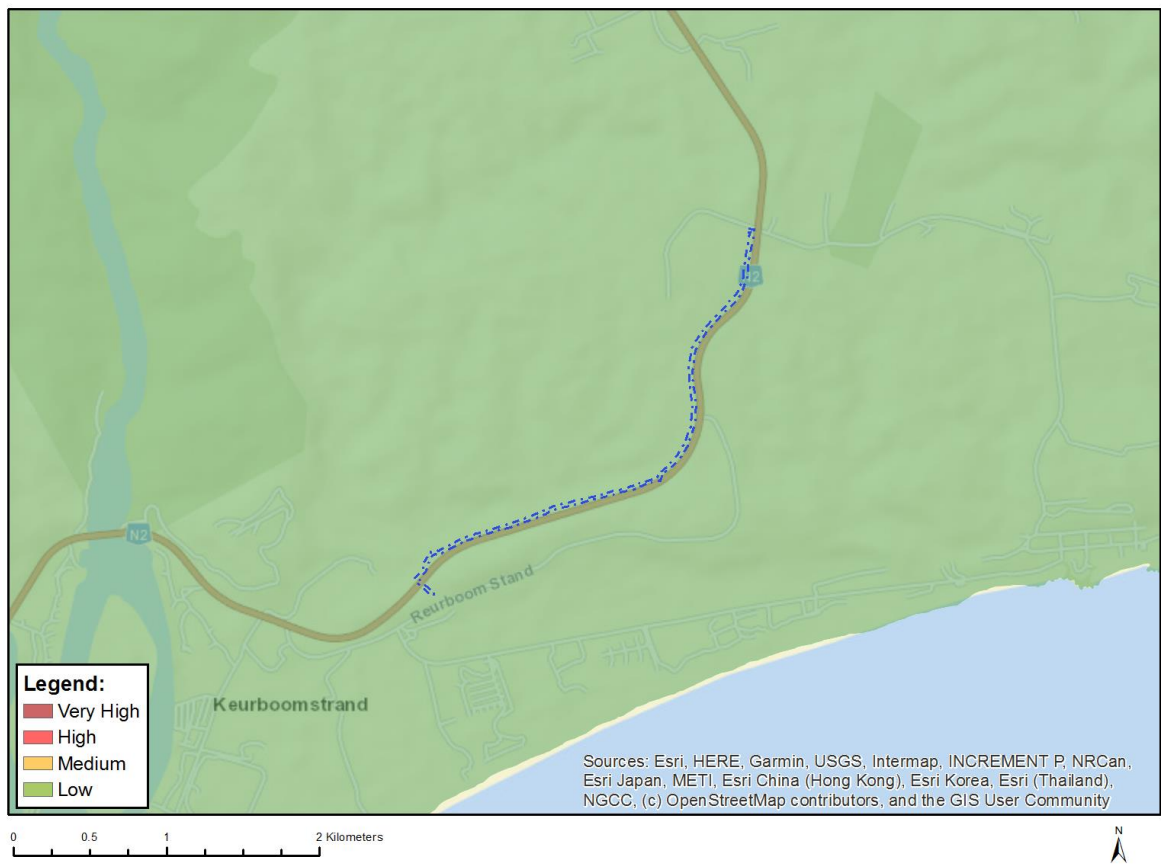


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 8 km of other civil aviation aerodrome

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

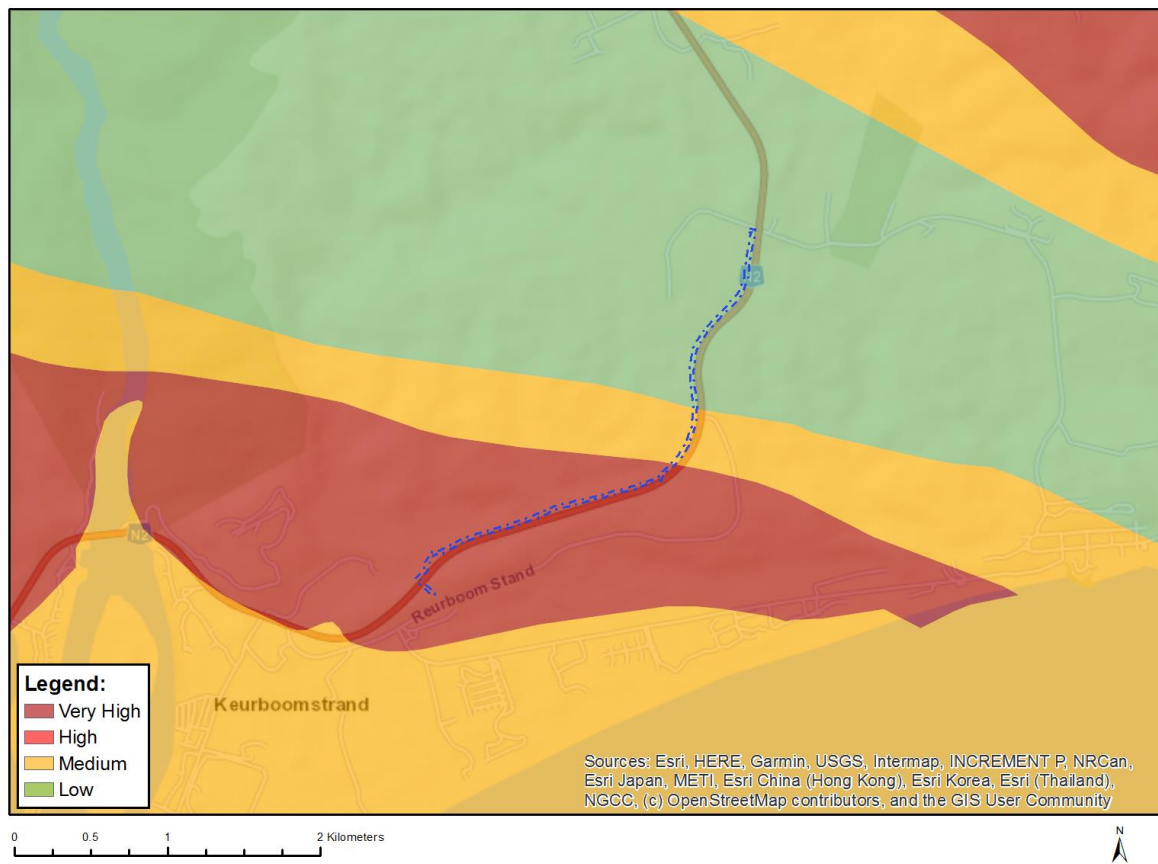


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

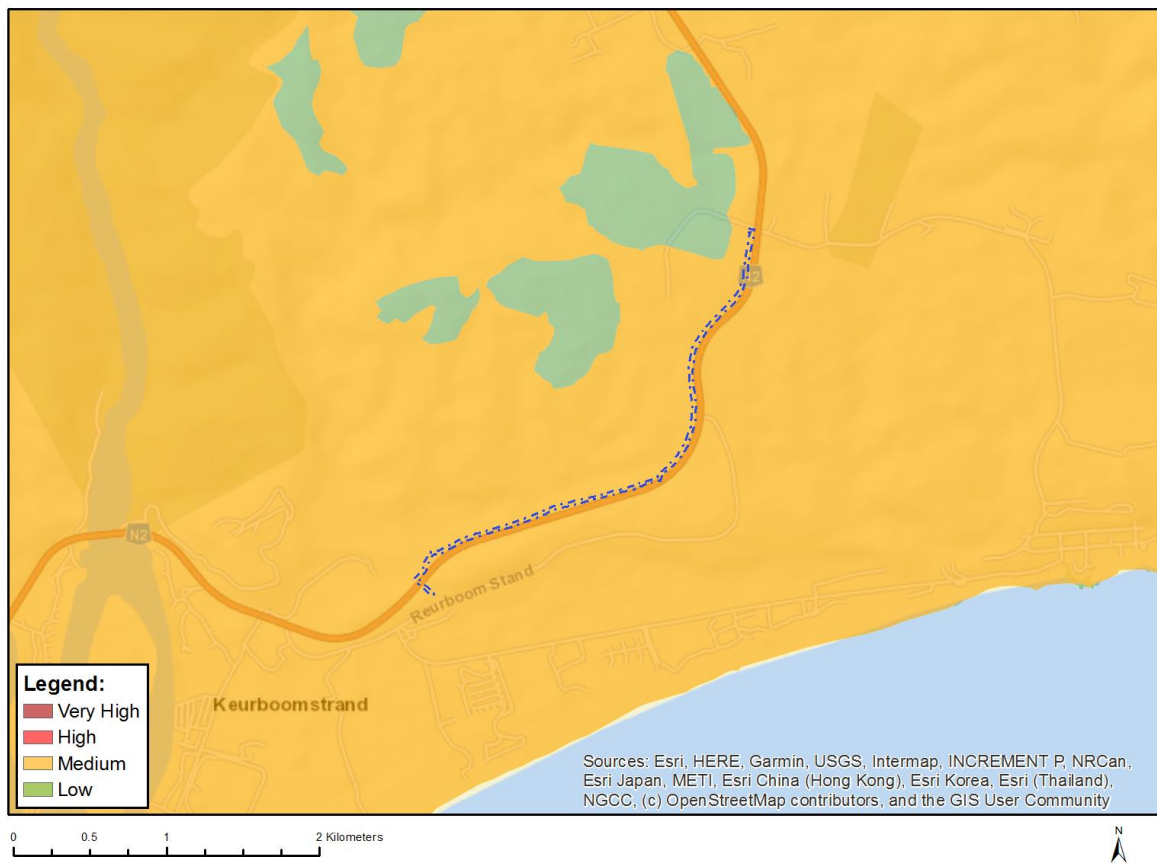


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

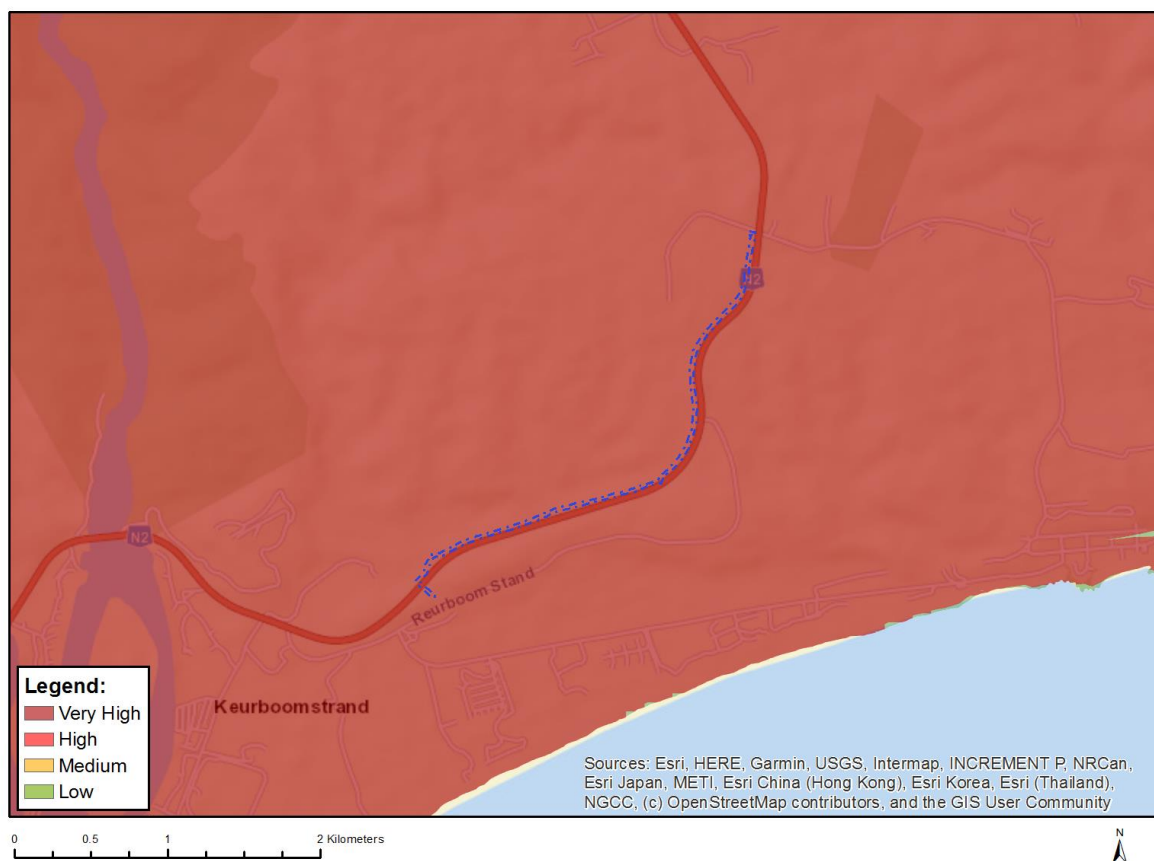
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Faurea macnaughtonii
Medium	Ocotea bullata
Medium	Ruschia duthiae
Medium	Indigofera hispida
Medium	Aspalathus bowieana
Medium	Sensitive species 131
Medium	Amauropelta knysnaensis
Medium	Leucospermum glabrum
Medium	Mimetes pauciflorus
Medium	Selago burchellii
Medium	Selago rotundifolia
Medium	Psydrax capensis
Medium	Sensitive species 419

Medium	<i>Erica onusta</i>
Medium	<i>Erica stylaris</i>
Medium	<i>Erica glandulosa</i> subsp. <i>fourcadei</i>
Medium	<i>Centella longifolia</i>
Medium	Sensitive species 1038
Medium	Sensitive species 181
Medium	<i>Pterygodium newdigateae</i>
Medium	<i>Felicia westae</i>
Medium	<i>Osteospermum pterigoideum</i>
Medium	<i>Acmadenia alternifolia</i>
Medium	<i>Muraltia knysnaensis</i>
Medium	<i>Erica glumiflora</i>
Medium	<i>Acrolophia lunata</i>
Medium	Sensitive species 763
Medium	<i>Pterygodium cleistogamum</i>

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Critical biodiversity area 1
Very High	Ecological support area 1

Very High	National Forestry Inventory
Very High	Vulnerable ecosystem
Very High	Strategic Water Source Areas

OFFICIAL

APPENDIX I4: SCREENING TOOL D

PROPOSED ALTERNATIVE 2- NORTH OF N2

200MM RISING MAIN FROM NEW 0.6ML RES TO TIE-
IN

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

EIA Reference number:

Project name: Kurland Bulk Infrastructure

Project title: Proposed Alternative 2_Ø200mm Rising Main from New 0.6ML Res to Kurland

Date screening report generated: 23/02/2022 16:05:03

Applicant: BITOU LOCAL MUNICIPALITY

Compiler: SES_WA

Compiler signature:

Application Category: Utilities Infrastructure|Pipelines|Water|Fresh_Storm Water

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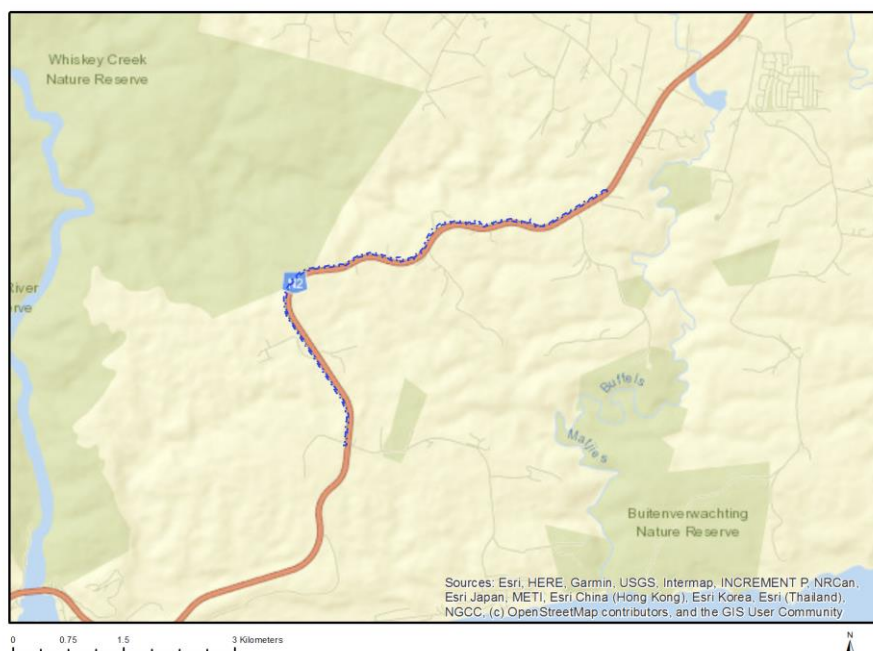
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Proposed Project Location

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		302	0	33°57'49.02S	23°28'54.27E	Farm
2		229	0	33°58'36.45S	23°25'33.09E	Farm
3		293	0	33°57'58.08S	23°26'46.41E	Farm
4		479	0	33°58'34.84S	23°26'14.02E	Farm
5		541	0	33°59'3.06S	23°26'21.25E	Farm
6		292	0	33°57'50.2S	23°27'34.2E	Farm
7		231	0	33°59'28.63S	23°26'15.32E	Farm
8		294	0	33°58'54.91S	23°26'6.64E	Farm
9		490	0	33°57'55.17S	23°27'51.01E	Farm
10		231	0	33°59'22.89S	23°26'14.46E	Farm Portion
11		293	72	33°57'53.23S	23°27'22.09E	Farm Portion
12		229	8	33°58'31.88S	23°25'53.51E	Farm Portion
13		231	1	33°59'25.3S	23°26'16.04E	Farm Portion
14		231	0	33°59'28.03S	23°26'16.51E	Farm Portion
15		293	52	33°57'55.92S	23°27'13.28E	Farm Portion
16		293	28	33°57'52.33S	23°26'34.67E	Farm Portion
17		293	17	33°57'57.3S	23°26'30.26E	Farm Portion
18		293	91	33°58'6.98S	23°26'31.69E	Farm Portion
19		294	12	33°58'57.76S	23°26'14.9E	Farm Portion
20		294	2	33°59'6.22S	23°26'17.66E	Farm Portion
21		229	5	33°58'26.37S	23°25'51.57E	Farm Portion
22		229	2	33°58'29.97S	23°25'38.57E	Farm Portion
23		293	47	33°57'56.83S	23°26'58.97E	Farm Portion

24		293	36	33°58'8.42S	23°26'33.39E	Farm Portion
25		293	65	33°58'5.98S	23°26'46.44E	Farm Portion
26		229	7	33°58'26.53S	23°25'49.39E	Farm Portion
27		231	2	33°59'22.62S	23°26'12.53E	Farm Portion
28		292	0	33°57'49.43S	23°27'34.23E	Farm Portion
29		293	14	33°57'51.32S	23°27'11.22E	Farm Portion
30		293	71	33°57'54.04S	23°27'14.44E	Farm Portion
31		293	50	33°57'55.17S	23°27'4.27E	Farm Portion
32		293	20	33°58'7.55S	23°26'36.09E	Farm Portion
33		293	31	33°58'12.79S	23°26'0.86E	Farm Portion
34		293	55	33°57'54.91S	23°27'25.56E	Farm Portion
35		293	54	33°57'56.38S	23°27'16.63E	Farm Portion
36		293	64	33°58'7.82S	23°26'36.47E	Farm Portion
37		293	73	33°57'54.91S	23°27'22.43E	Farm Portion
38		293	2	33°57'46.28S	23°26'53.17E	Farm Portion
39		294	11	33°59'5.34S	23°26'18.59E	Farm Portion
40		294	15	33°58'49.56S	23°26'6.09E	Farm Portion
41		294	14	33°59'7.4S	23°26'15.08E	Farm Portion
42		302	26	33°57'41.42S	23°28'13.49E	Farm Portion
43		490	4	33°57'43.49S	23°28'5.68E	Farm Portion
44		490	0	33°57'58.99S	23°27'52.78E	Farm Portion
45		229	4	33°58'31.2S	23°25'53.7E	Farm Portion
46		292	1	33°57'55.79S	23°27'35.43E	Farm Portion
47		293	5	33°57'54.78S	23°26'20.62E	Farm Portion
48		293	57	33°58'10.91S	23°26'1.32E	Farm Portion
49		293	2	33°57'45.71S	23°26'53.27E	Farm Portion
50		293	29	33°57'42.56S	23°27'7.81E	Farm Portion
51		293	17	33°57'56.79S	23°26'30.3E	Farm Portion
52		293	34	33°58'7.4S	23°26'25.46E	Farm Portion
53		293	35	33°58'7.28S	23°26'30.83E	Farm Portion
54		293	15	33°57'54.77S	23°26'49.28E	Farm Portion
55		294	2	33°59'6.03S	23°26'17.54E	Farm Portion
56		479	5	33°58'19.01S	23°25'53.09E	Farm Portion
57		229	9	33°58'30.49S	23°25'52.63E	Farm Portion
58		292	2	33°57'52.7S	23°27'36.7E	Farm Portion
59		293	82	33°57'55.2S	23°26'59.54E	Farm Portion
60		293	37	33°58'9.29S	23°26'45.42E	Farm Portion
61		293	4	33°58'8.26S	23°26'6.42E	Farm Portion
62		293	74	33°57'53.78S	23°27'28.07E	Farm Portion
63		293	48	33°57'56.76S	23°26'56.45E	Farm Portion
64		293	88	33°58'4.93S	23°26'29.41E	Farm Portion
65		294	13	33°58'22.11S	23°25'52.01E	Farm Portion
66		294	7	33°58'58.61S	23°26'15.32E	Farm Portion
67		294	16	33°58'19.23S	23°25'50.53E	Farm Portion
68		293	56	33°57'54.25S	23°27'25.23E	Farm Portion
69		293	58	33°58'7.34S	23°26'21.64E	Farm Portion
70		293	66	33°58'1.99S	23°26'52.15E	Farm Portion
71		293	49	33°57'55.07S	23°27'2.37E	Farm Portion
72		293	17	33°57'56.62S	23°26'33.08E	Farm Portion

73		293	8	33°57'55.07S	23°26'59.62E	Farm Portion
74		294	7	33°58'37.62S	23°25'58.26E	Farm Portion
75		479	3	33°58'47.42S	23°26'7.81E	Farm Portion
76		490	5	33°57'49.55S	23°28'0.5E	Farm Portion
77		490	0	33°57'54.7S	23°27'43.68E	Farm Portion
78		490	7	33°57'54.03S	23°27'28.92E	Farm Portion
79		490	0	33°57'29.76S	23°28'19.06E	Farm Portion
80		490	3	33°57'53.77S	23°27'28.73E	Farm Portion
81		541	1	33°59'11.85S	23°26'18.64E	Farm Portion
82		490	1	33°57'55.17S	23°27'29.65E	Farm Portion

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

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No nearby wind or solar developments found.

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

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

Utilities Infrastructure | Pipelines | Water | Fresh_Storm Water.

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.

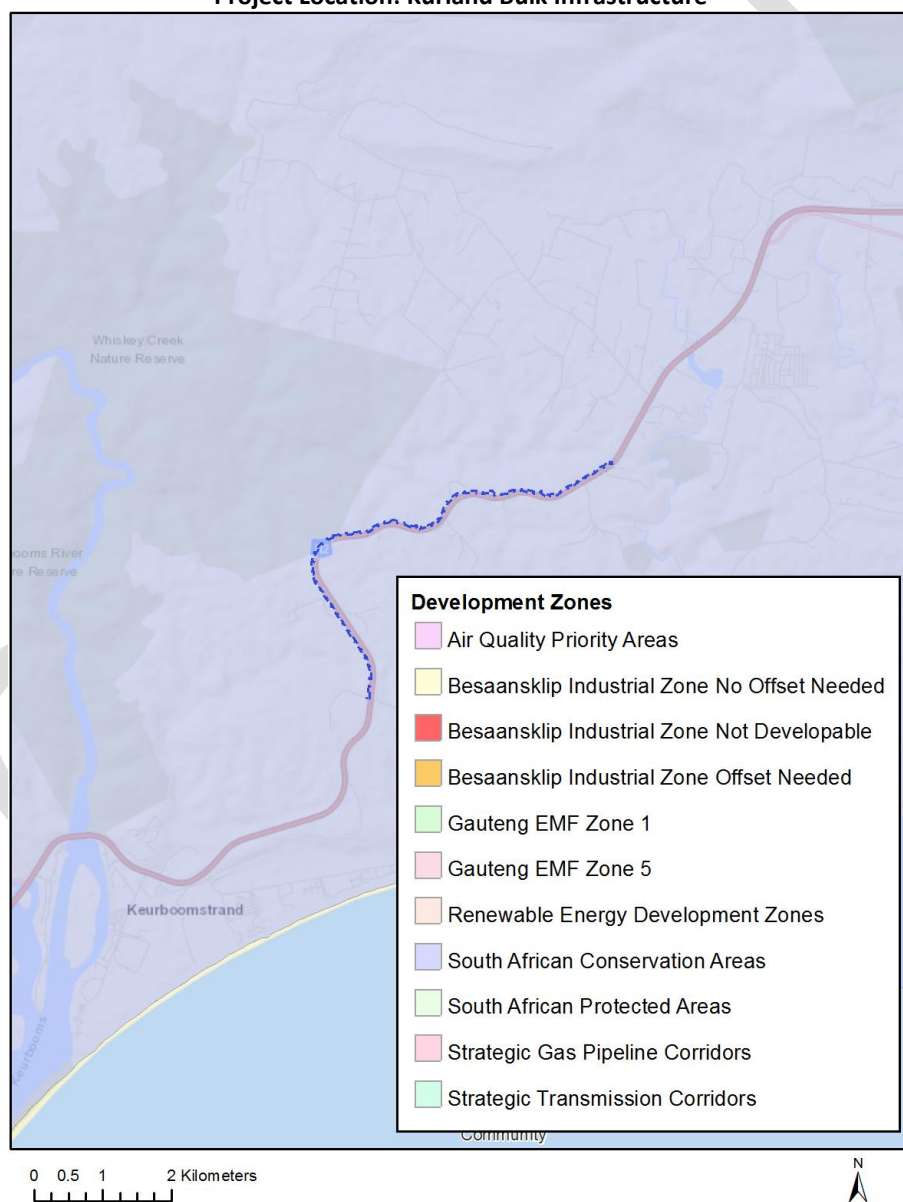
Incentive, restriction or prohibition	Implication

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.

tion	
South African Protected Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SAPAD_OR_2021_Q3_Metadata.pdf
South African Conservation Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACAD_OR_2021_Q3_Metadata.pdf

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

Project Location: Kurland Bulk Infrastructure



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 environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

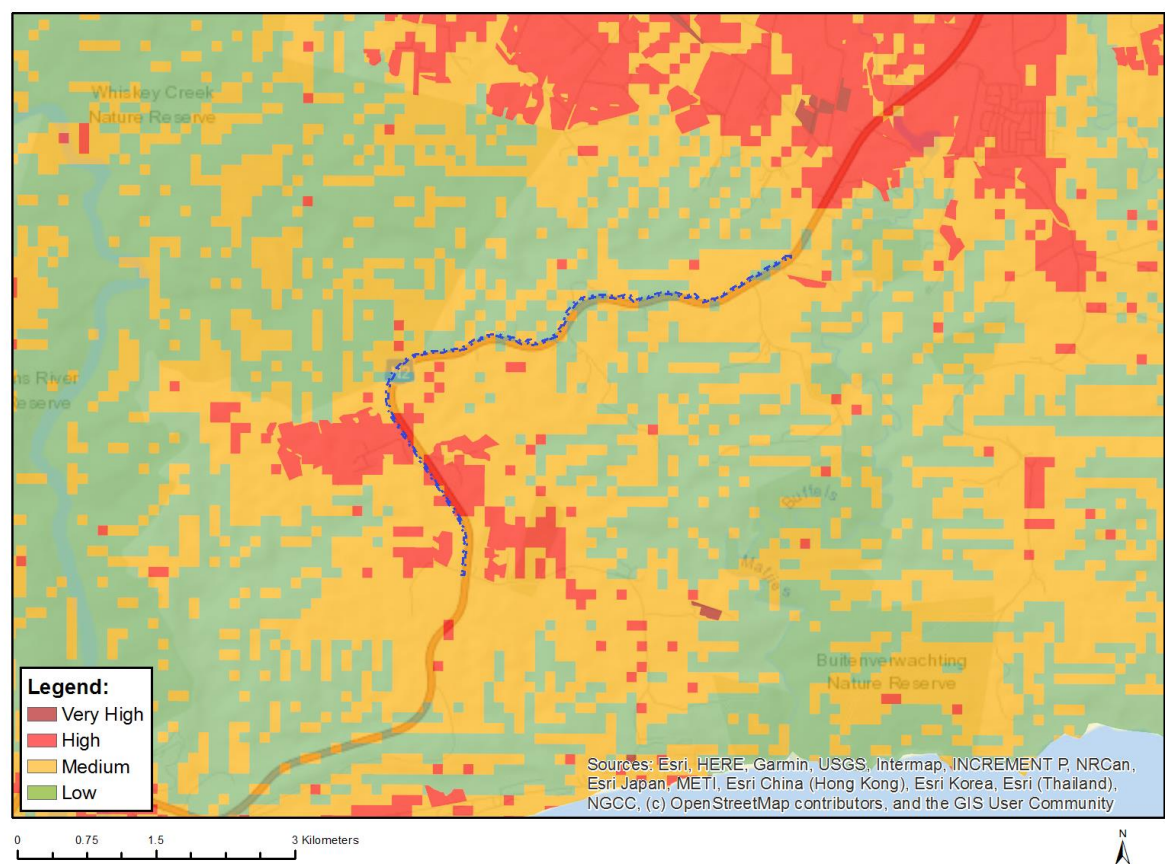
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Paleontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf

	rsity Impact Assess ment	
5	Aquatic Biodiversity Impact Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted Aquatic Biodiversity Assessment Protocols.pdf
6	Geotechnical Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted General Requirement Assessment Protocols.pdf
7	Socio-Economic Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted General Requirement Assessment Protocols.pdf
8	Plant Species Assess ment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/ Gazetted Plant Species Assessment Protocols.pdf
9	Animal Species Assess ment	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

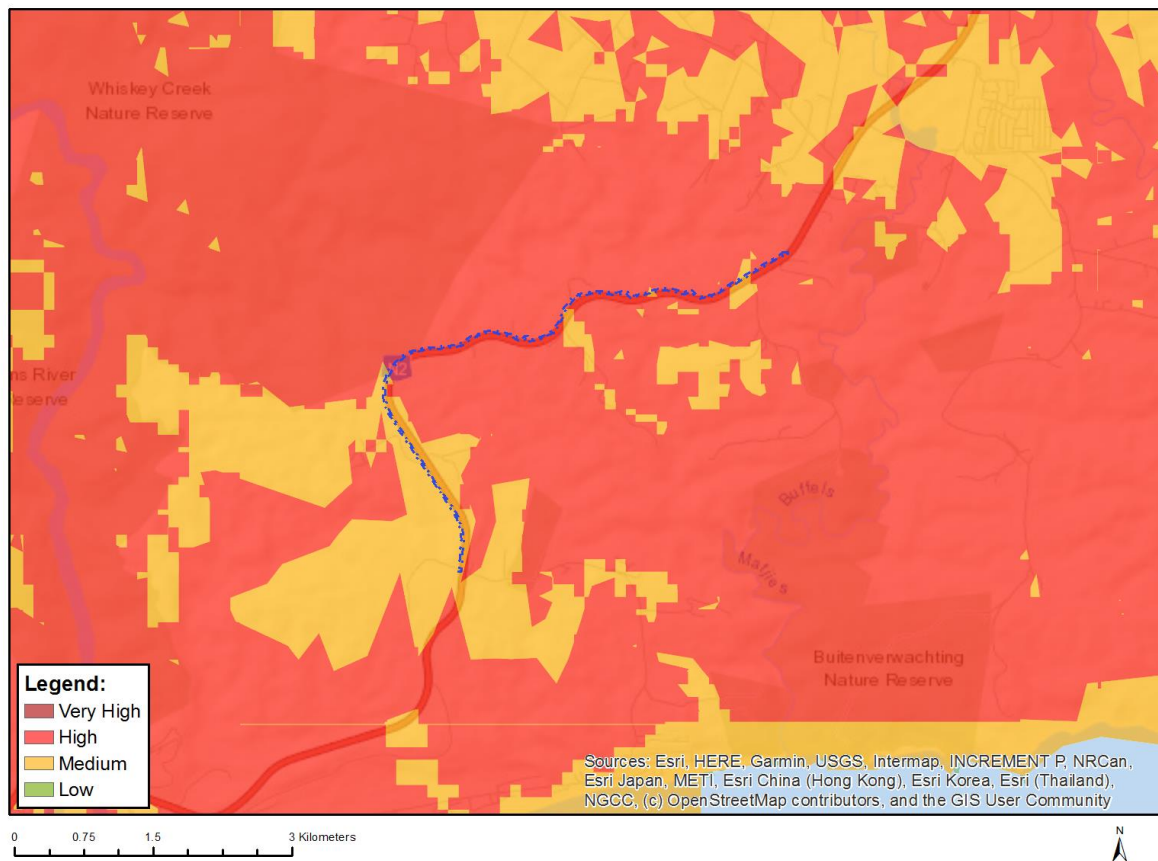


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
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



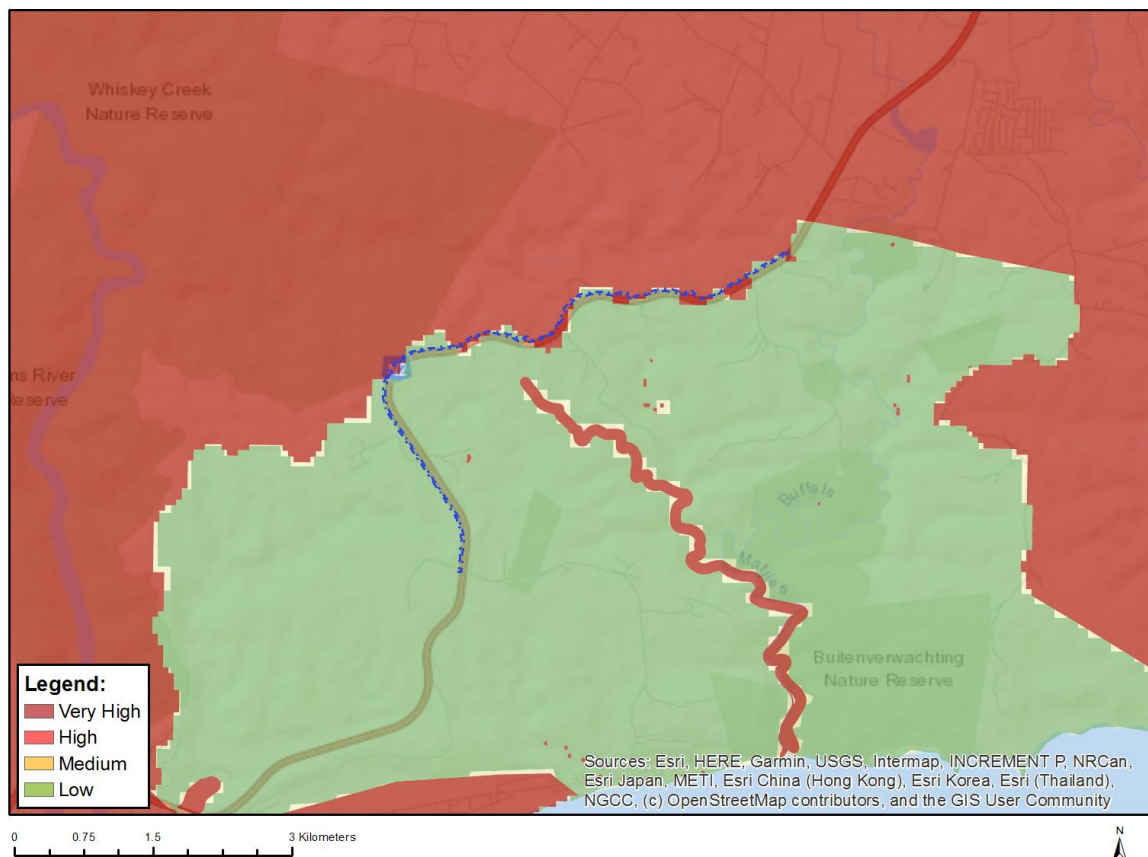
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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 maurus
High	Aves-Bradypterus sylvaticus
Medium	Invertebrate-Sarophorus punctatus
Medium	Invertebrate-Aneuryphymus montanus
Medium	Invertebrate-Forest invertebrate
Medium	Amphibia-Afrixalus knysnae
Medium	Aves-Circus ranivorus
Medium	Aves-Neotis denhami
Medium	Aves-Turnix hottentottus
Medium	Insecta-Aloeides thyra orientis
Medium	Insecta-Tsitana dicksoni
Medium	Mammalia-Chlorotalpa duthieae
Medium	Sensitive species 7

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

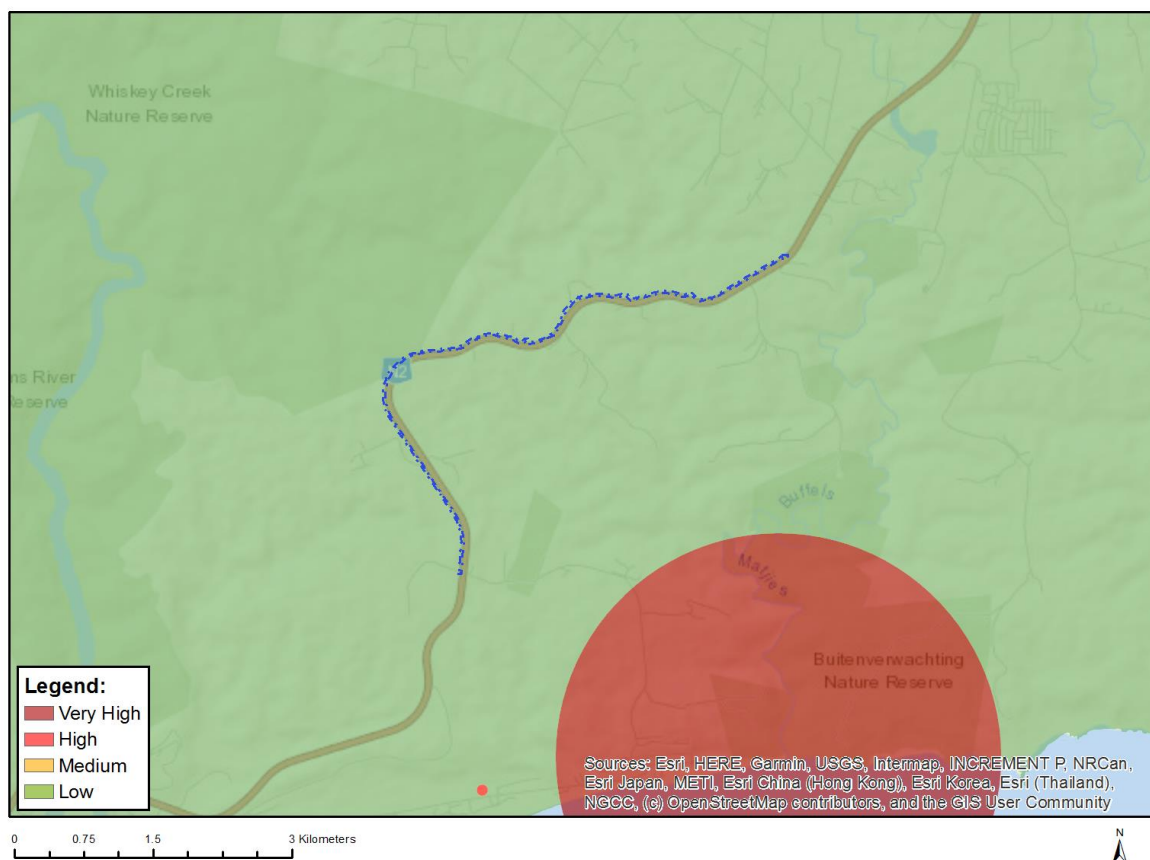


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity
Very High	Freshwater ecosystem priority area quinary catchments

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

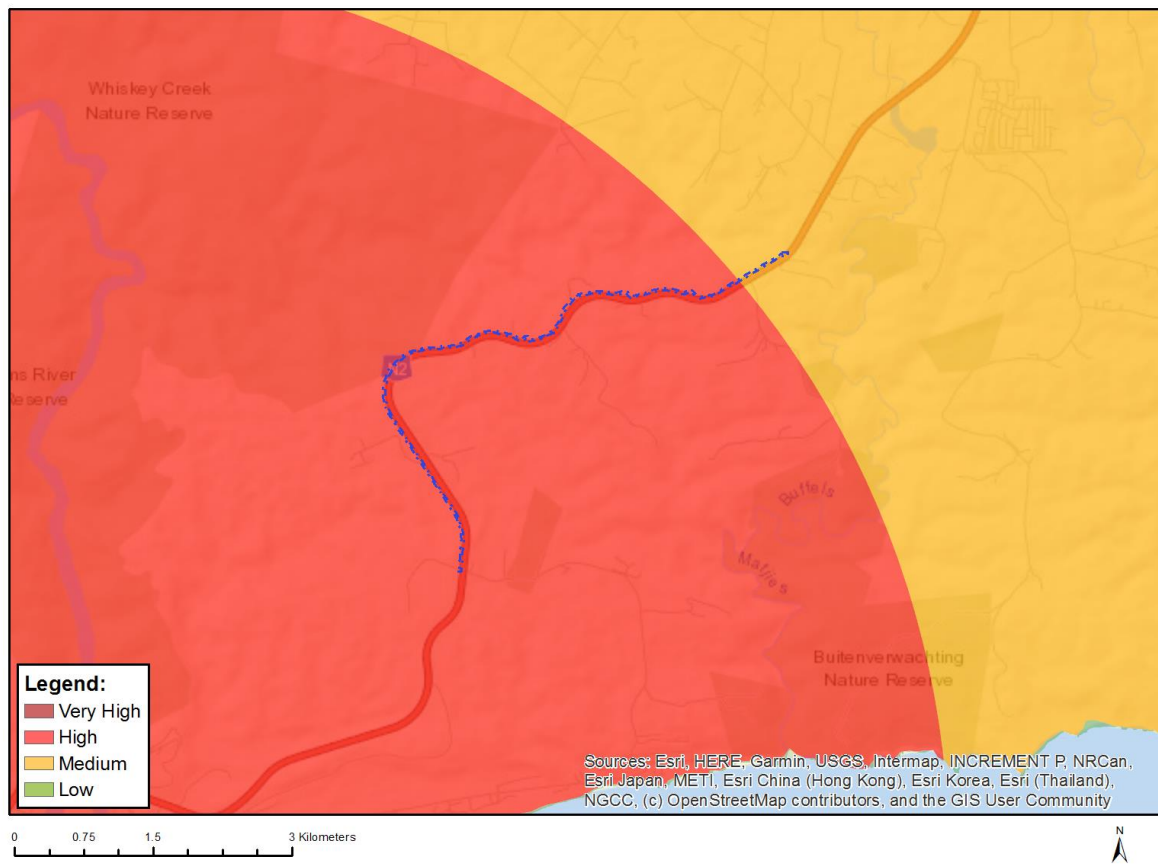


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

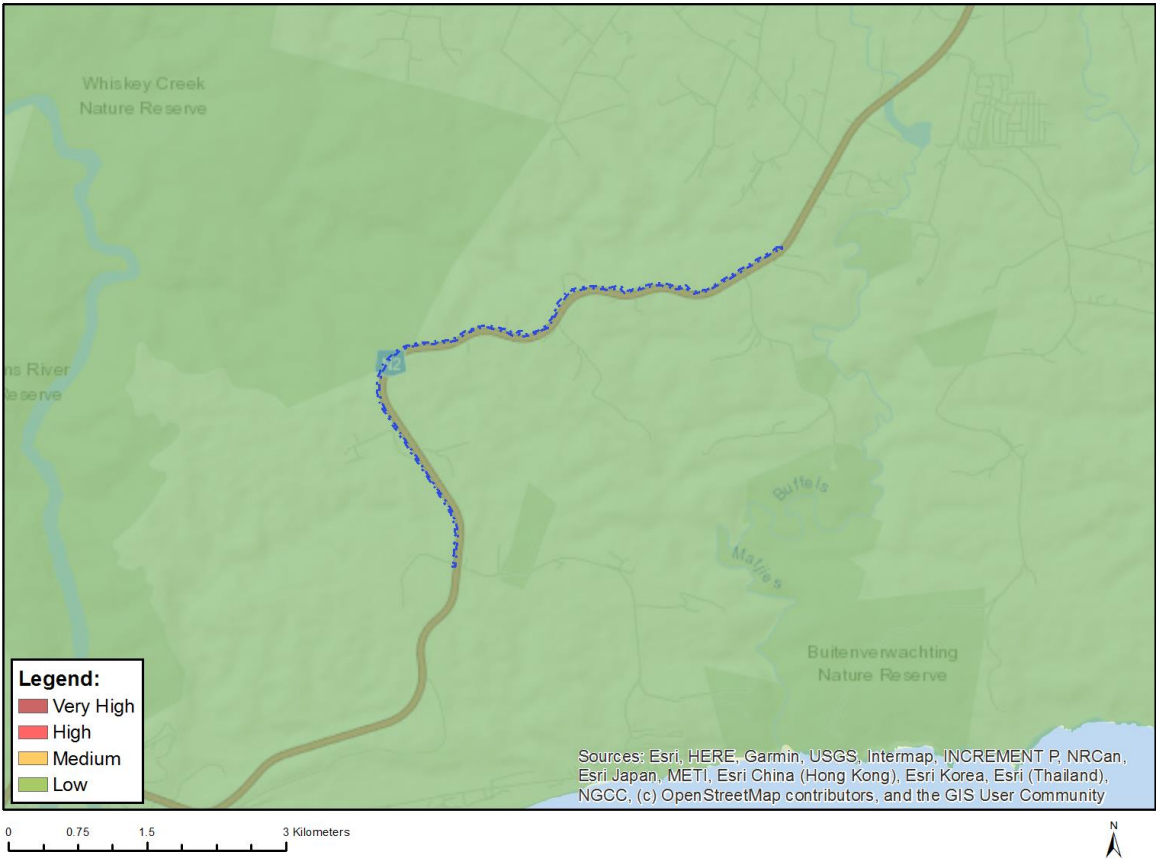


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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

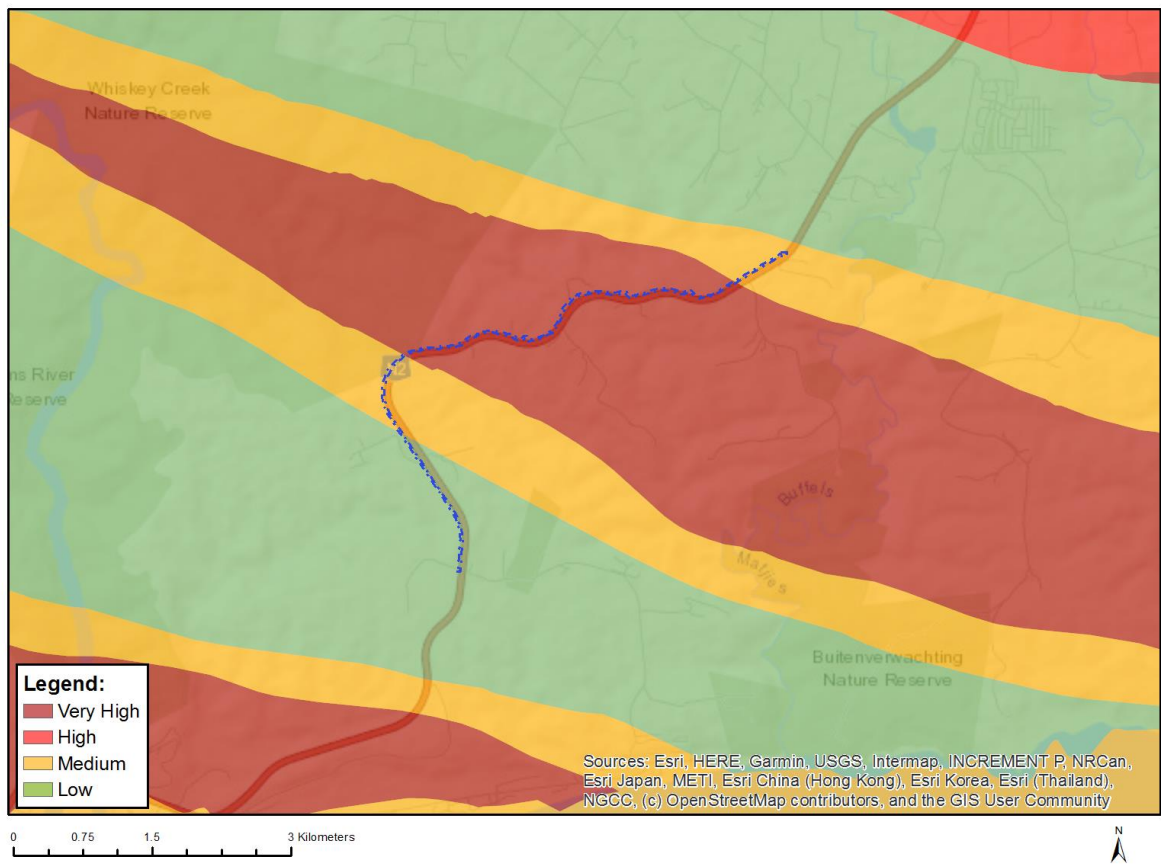


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

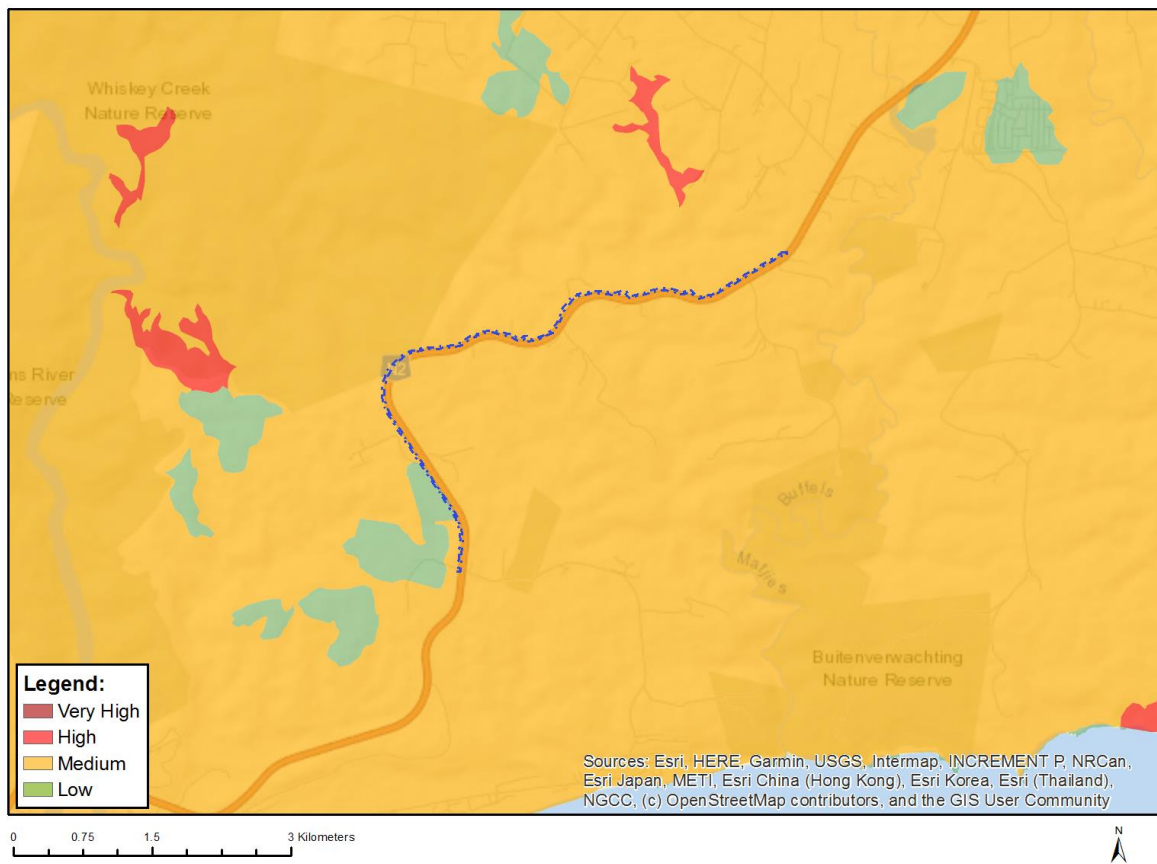


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

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

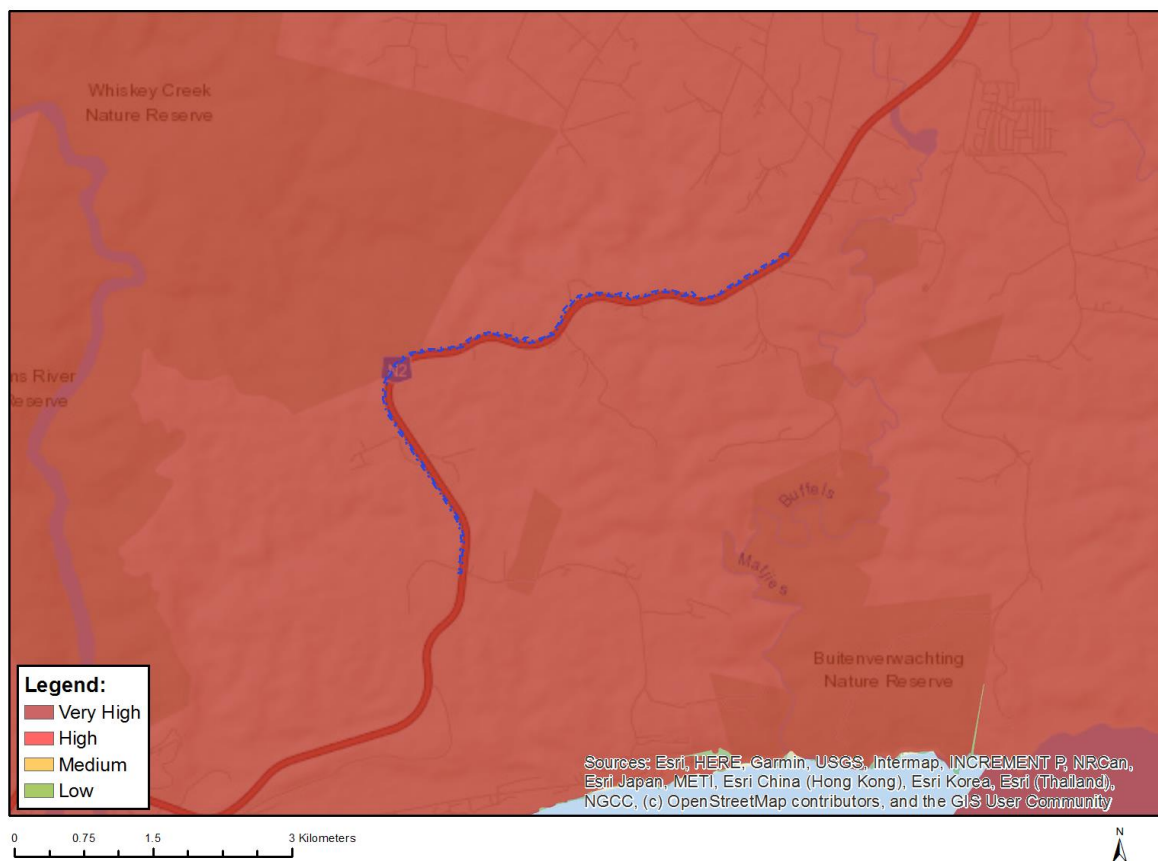
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Medium	Faurea macnaughtonii
Medium	Ocotea bullata
Medium	Ruschia duthiae
Medium	Indigofera hispida
Medium	Aspalathus bowieana
Medium	Sensitive species 131
Medium	Amauropelta knysnaensis
Medium	Leucospermum glabrum
Medium	Mimetes pauciflorus
Medium	Selago rotundifolia
Medium	Psydrax capensis
Medium	Sensitive species 419

Medium	<i>Erica onusta</i>
Medium	<i>Erica stylaris</i>
Medium	<i>Erica glandulosa</i> subsp. <i>fourcadei</i>
Medium	<i>Centella longifolia</i>
Medium	Sensitive species 1038
Medium	<i>Marsilea schelpeana</i>
Medium	<i>Felicia westae</i>
Medium	<i>Osteospermum pterigoideum</i>
Medium	<i>Acmadenia alternifolia</i>
Medium	<i>Muraltia knysnaensis</i>
Medium	Sensitive species 448
Medium	<i>Erica glumiflora</i>
Medium	Sensitive species 53
Medium	Sensitive species 654
Medium	<i>Acrolophia lunata</i>
Medium	Sensitive species 763
Medium	<i>Pterygodium cleistogamum</i>

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
-------------	------------

Very High	Critical biodiversity area 1
Very High	Ecological support area 1
Very High	Ecological support area 2
Very High	FEPA Subcatchments
Very High	Kiaruna Private Nature Reserve
Very High	Vulnerable ecosystem
Very High	Strategic Water Source Areas

APPENDIX 15: SCREENING TOOL E

PROPOSED 0.6ML RESERVOIR & PUMP STATION
(NEW UPPER MATJIESFONTEIN)

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

EIA Reference number:

Project name: Kurland Bulk Infrastructure

Project title: Proposed 0.6ML Reservoir & Pump Station_New Upper Matjiesfontein

Date screening report generated: 23/02/2022 15:18:47

Applicant: BITOU LOCAL MUNICIPALITY

Compiler: SES_WA

Compiler signature:

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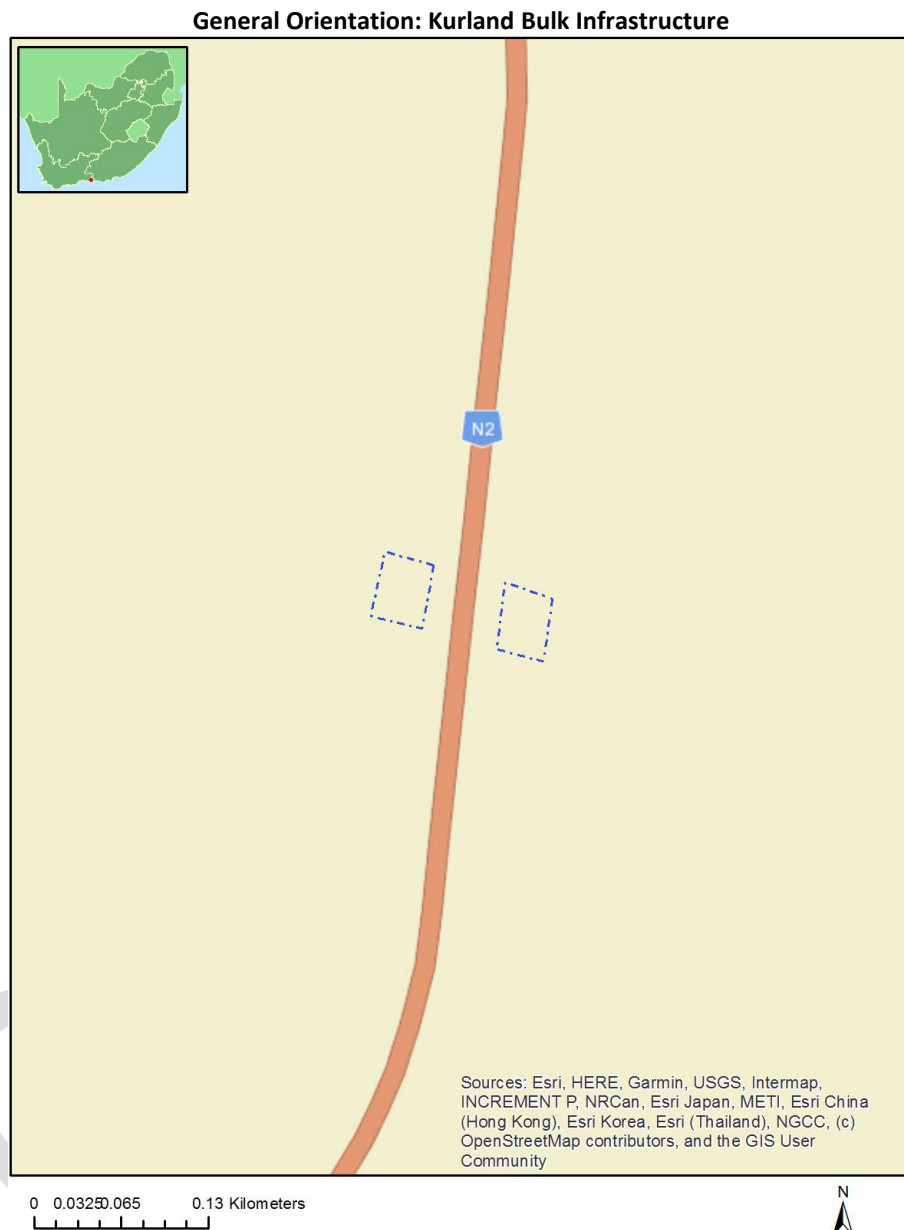
Application Category: Services|Water services|Storage|Reservoirs

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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		231	0	33°59'28.63S	23°26'15.32E	Farm
2		231	0	33°59'31.85S	23°26'16.09E	Farm Portion
3		231	0	33°59'28.03S	23°26'16.51E	Farm Portion
4		231	0	33°59'22.89S	23°26'14.46E	Farm Portion

Development footprint¹ vertices:

No development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No nearby wind or solar developments found.

Environmental Management Frameworks relevant to the application

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 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:

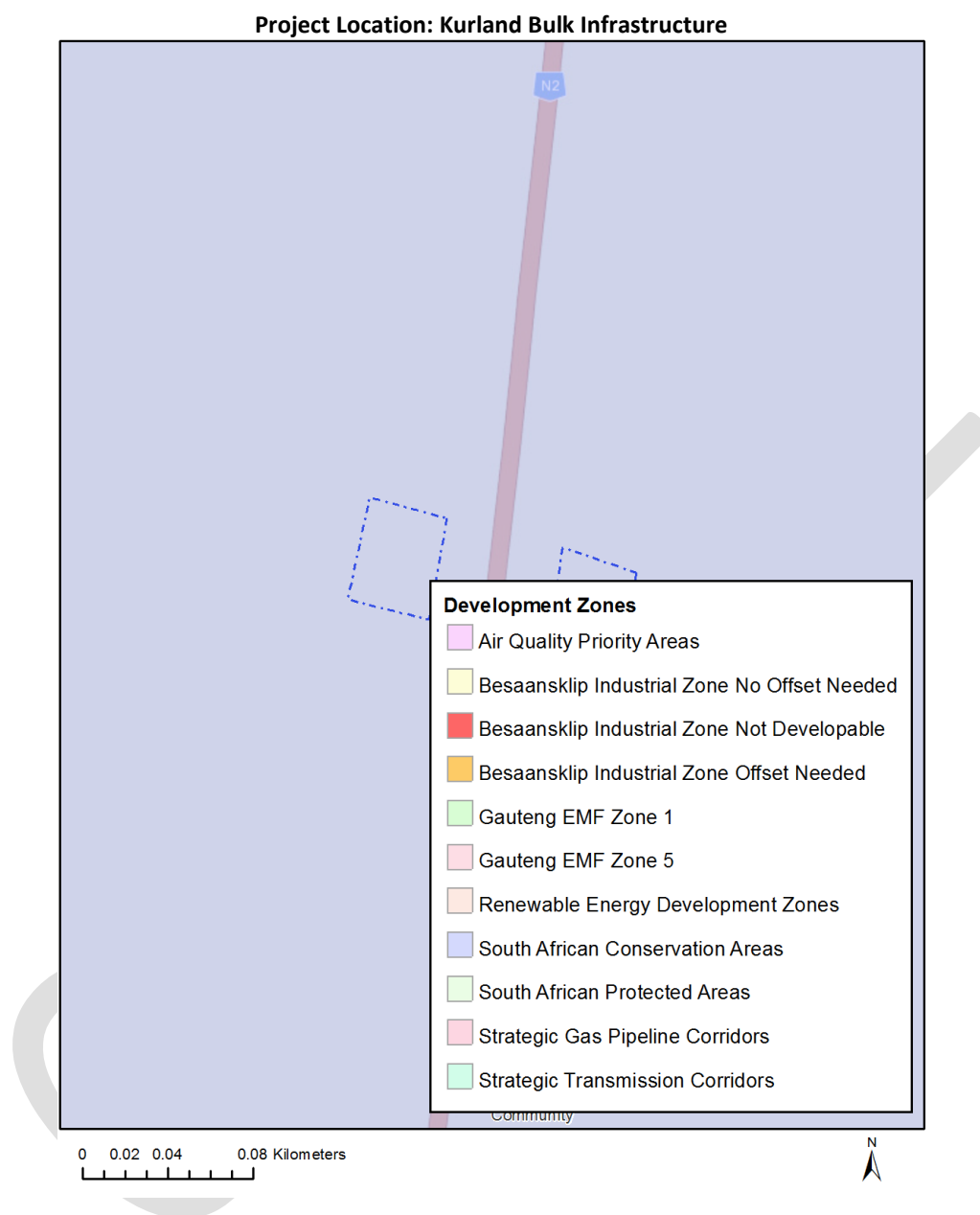
Services | Water services | Storage | Reservoirs.

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
South African Conservation Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACAD_OR_2021_Q3_Metadata.pdf

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



Proposed Development Area Environmental Sensitivity

The following summary of the development site environmental sensitivities is identified. Only the highest environmental sensitivity is indicated. The footprint environmental sensitivities for the proposed development footprint as identified, are indicative only and must be verified on site by a suitably qualified person before the specialist assessments identified below can be confirmed.

Theme	Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
Agriculture Theme			X	
Animal Species Theme		X		

Aquatic Biodiversity Theme				X
Archaeological and Cultural Heritage Theme				X
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 environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

N o	Special ist assess ment	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	Paleontology 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	Civil Aviation Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf
8	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
9	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
10	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

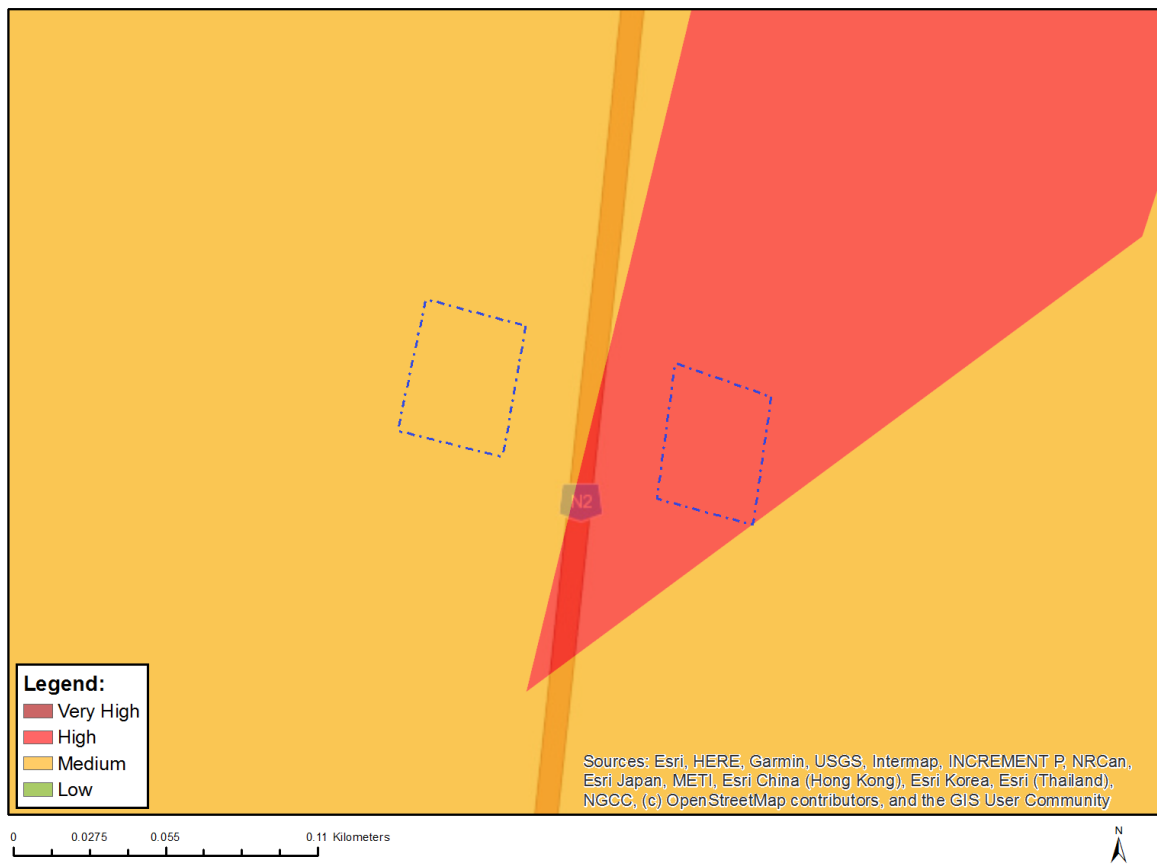


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
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-Bradypterus sylvaticus
Medium	Invertebrate-Sarophorus punctatus
Medium	Invertebrate-Aneuryphymus montanus
Medium	Amphibia-Afraxalus knysnae
Medium	Insecta-Aloeides thyra orientis
Medium	Insecta-Tsitana dicksoni
Medium	Mammalia-Chlorotalpa duthieae
Medium	Sensitive species 7

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

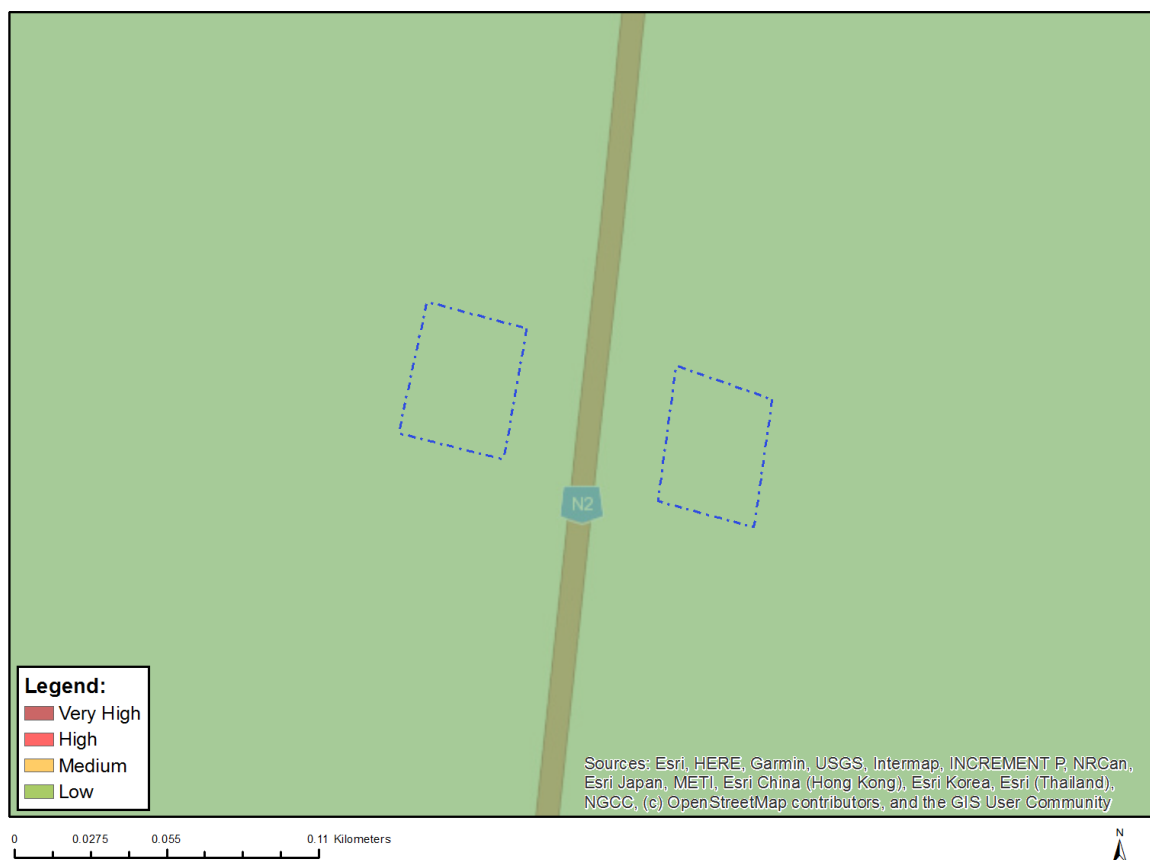


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

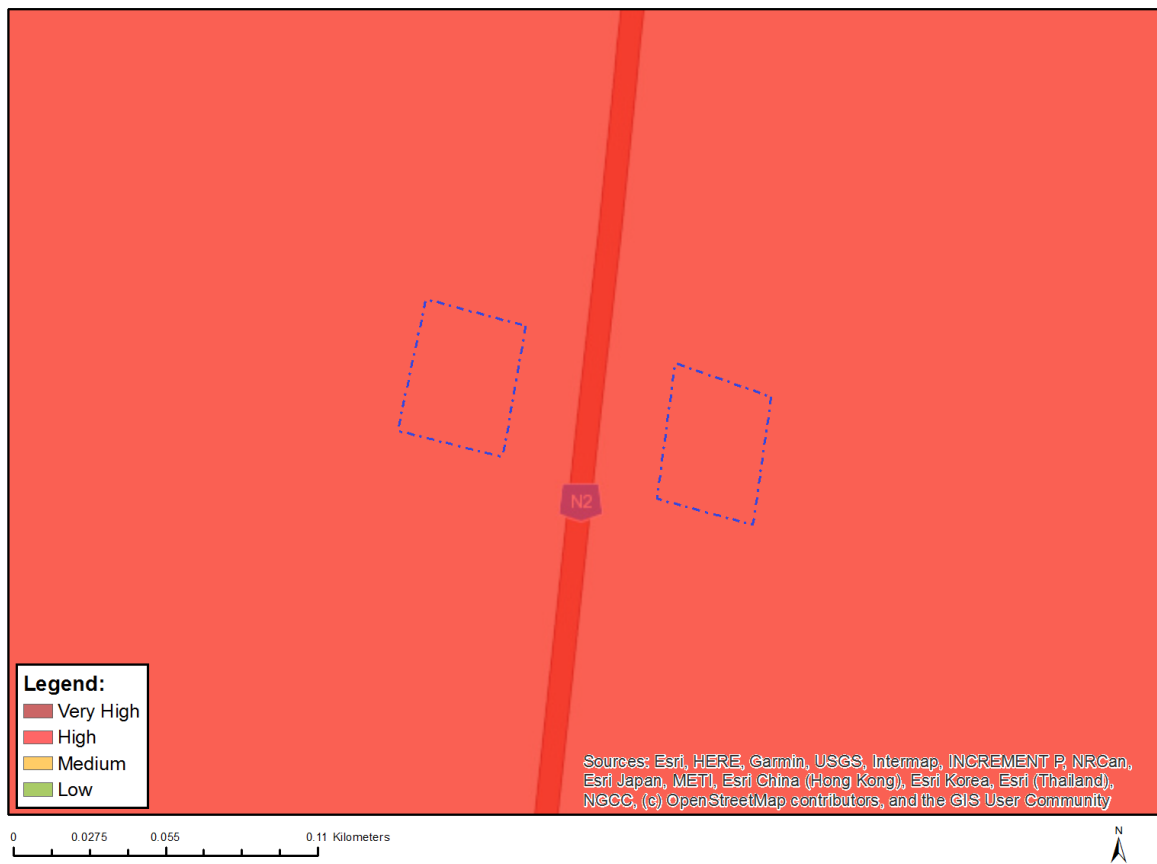


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

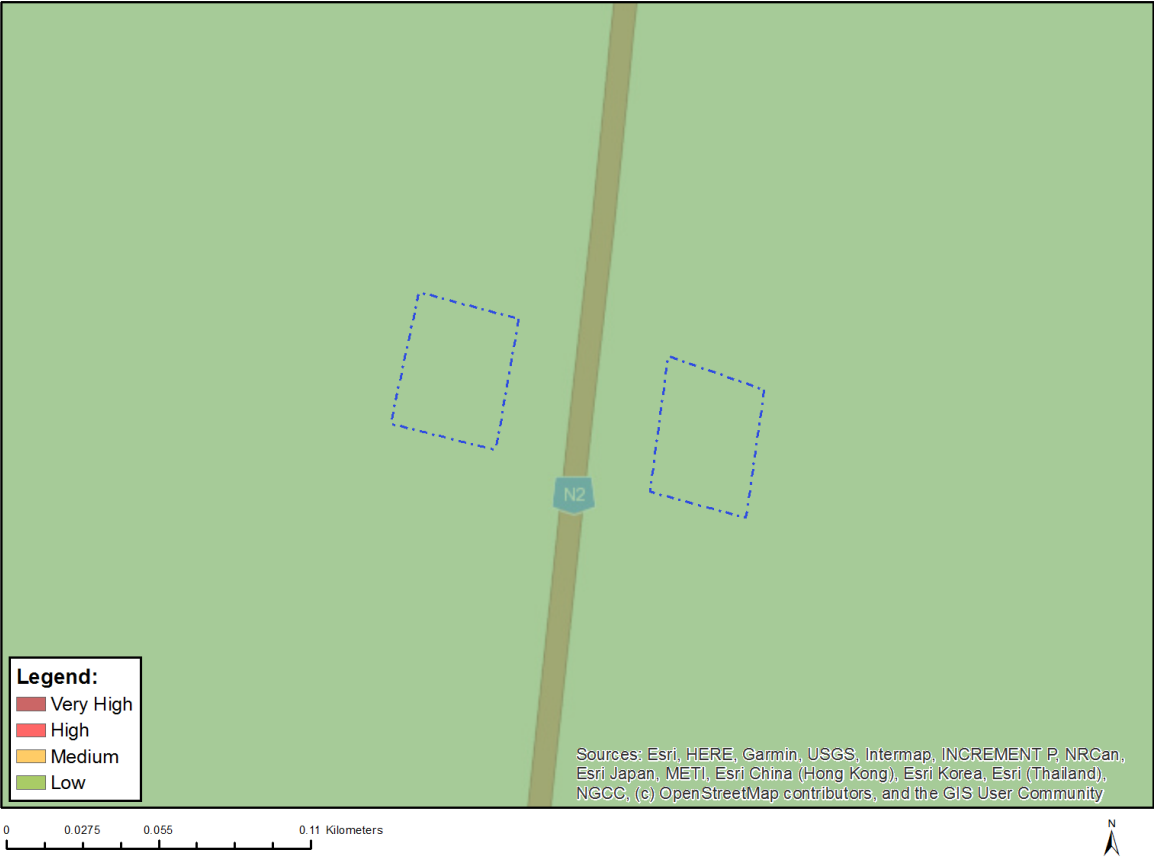


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Within 8 km of other civil aviation aerodrome

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

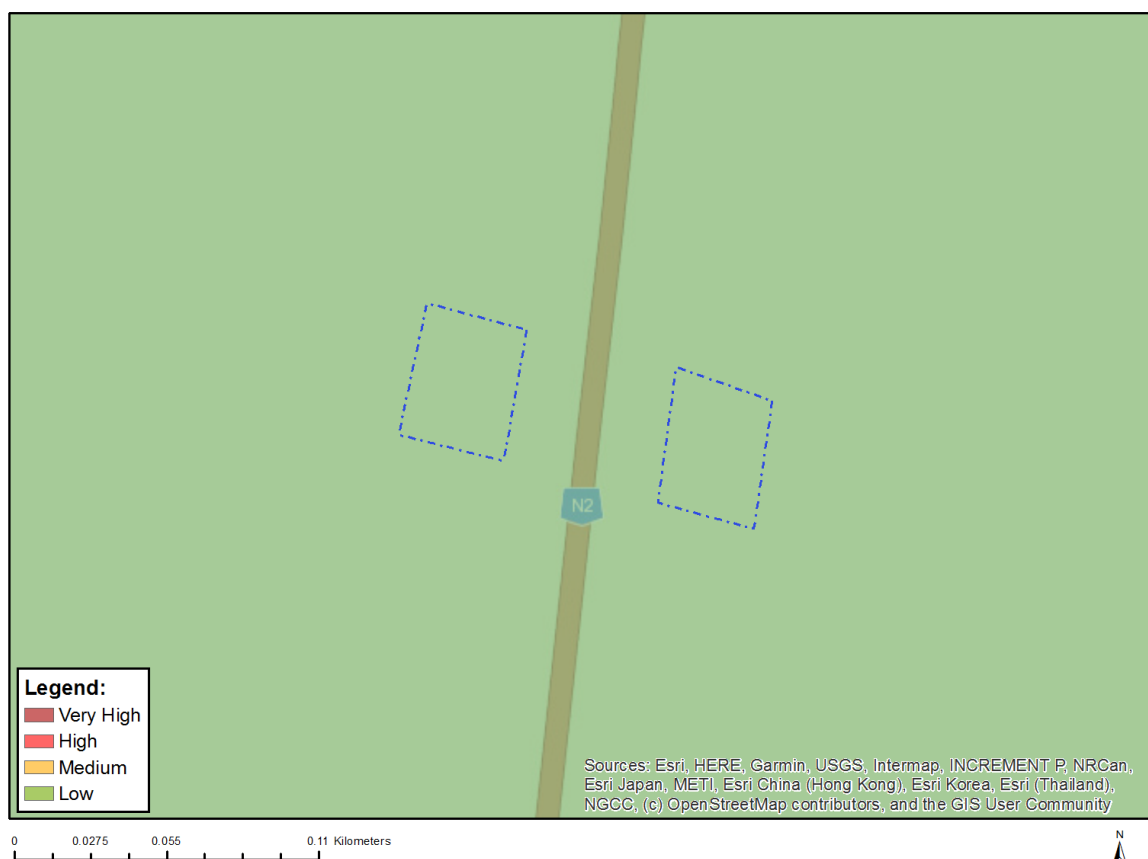


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

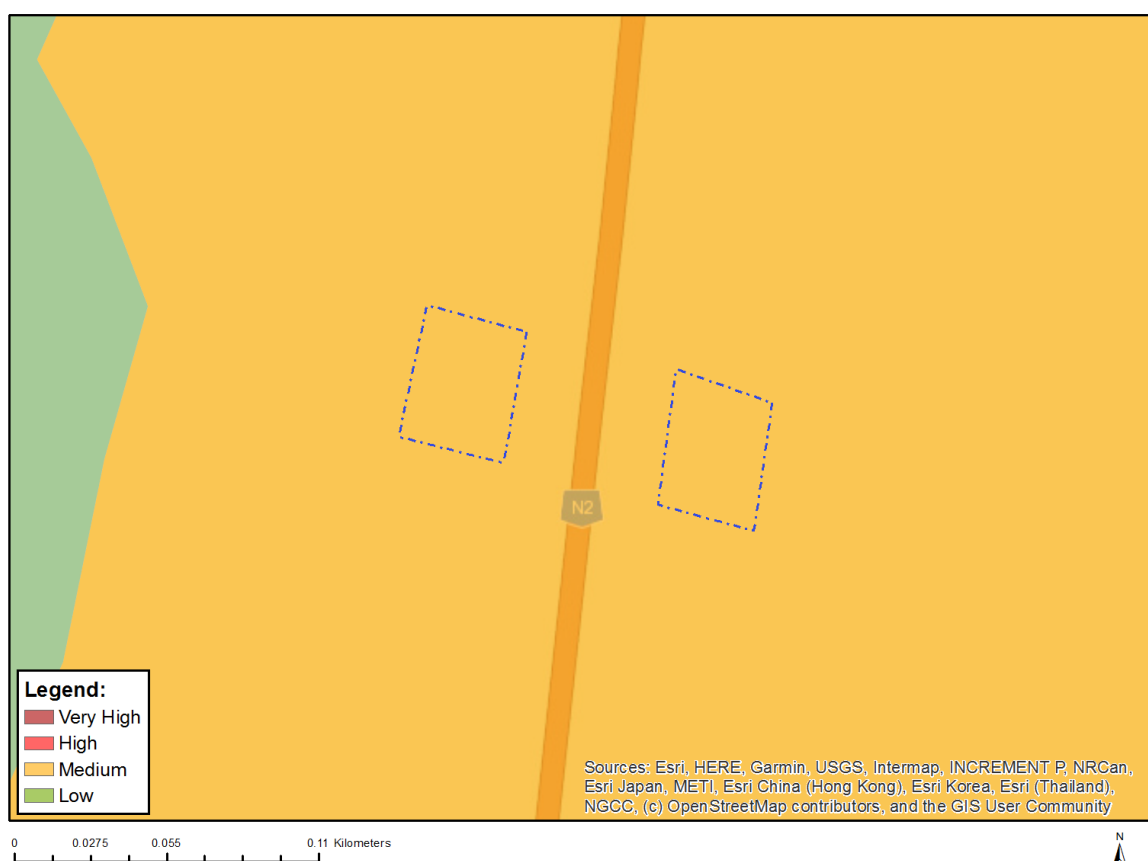


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Features with a Low 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.

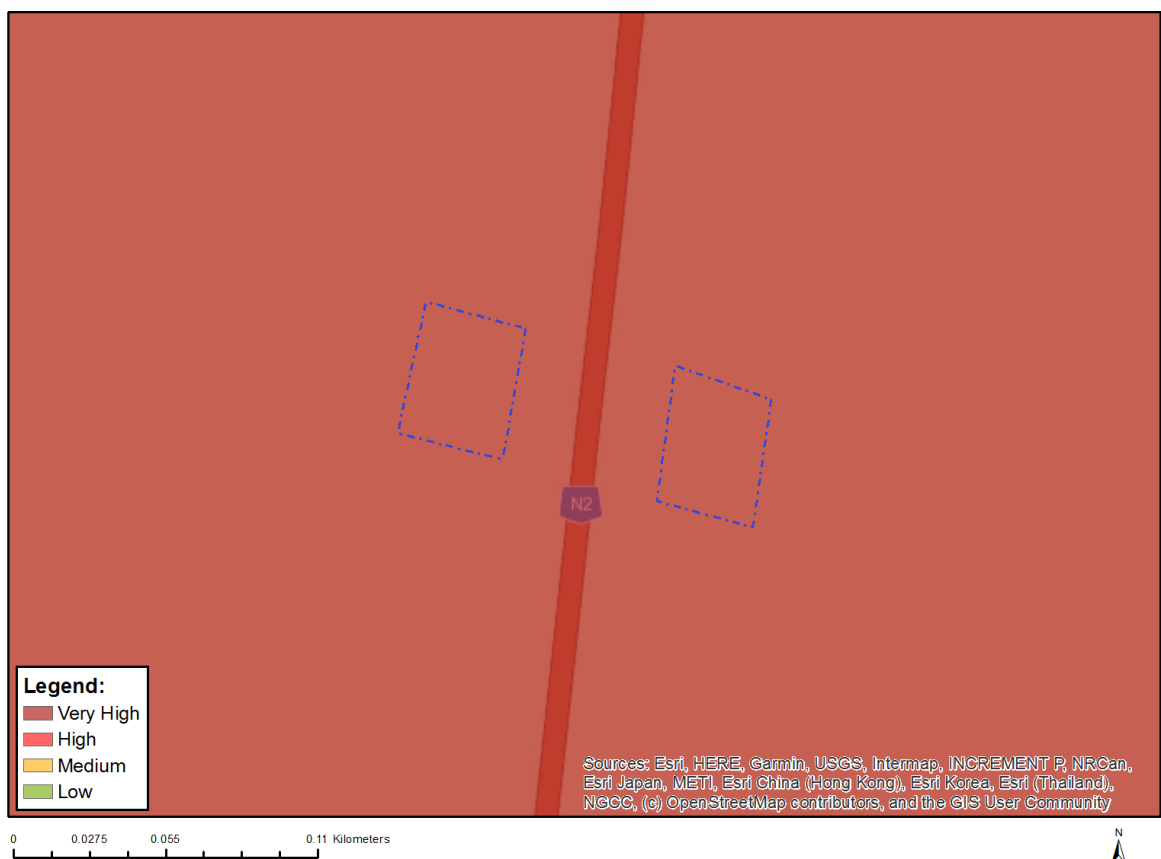
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Faurea macnaughtonii
Medium	Ocotea bullata
Medium	Indigofera hispida
Medium	Aspalathus bowieana
Medium	Sensitive species 131
Medium	Amauropelta knysnaensis
Medium	Leucospermum glabrum
Medium	Mimetes pauciflorus
Medium	Selago rotundifolia
Medium	Psyrax capensis
Medium	Erica onusta
Medium	Erica stylaris
Medium	Erica glandulosa subsp. fourcadei

Medium	Centella longifolia
Medium	Sensitive species 1038
Medium	Felicia westae
Medium	Osteospermum pterigoideum
Medium	Acmadenia alternifolia
Medium	Muraltia knysnaensis
Medium	Erica glumiflora
Medium	Acrolophia lunata
Medium	Sensitive species 763
Medium	Pterygodium cleistogamum

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Strategic Water Source Areas

APPENDIX I6: SCREENING TOOL F

- PROPOSED 315MM SUPPLY PIPELINE FROM KURLAND WTW'S TO KURLAND
- 200MM RISING MAIN TO KURLAND WTW'S

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

EIA Reference number: 16/3/3/6/7/1/D1/9/0093/22

Project name: PROPOSED UPGRADES TO THE BULK WATER INFRASTRUCTURE, KURLAND, BITOU
LOCAL MUNICIPALITY

Project title: 315MM SUPPLY PIPELINE TO KURLAND & 200MM RISING MAIN TO WTW

Date screening report generated: 01/11/2022 15:33:54

Applicant: BITOU LOCAL MUNICIPALITY

Compiler: SES

Compiler signature:

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Application Category: Utilities Infrastructure|Pipelines|Water|Fresh_Storm Water

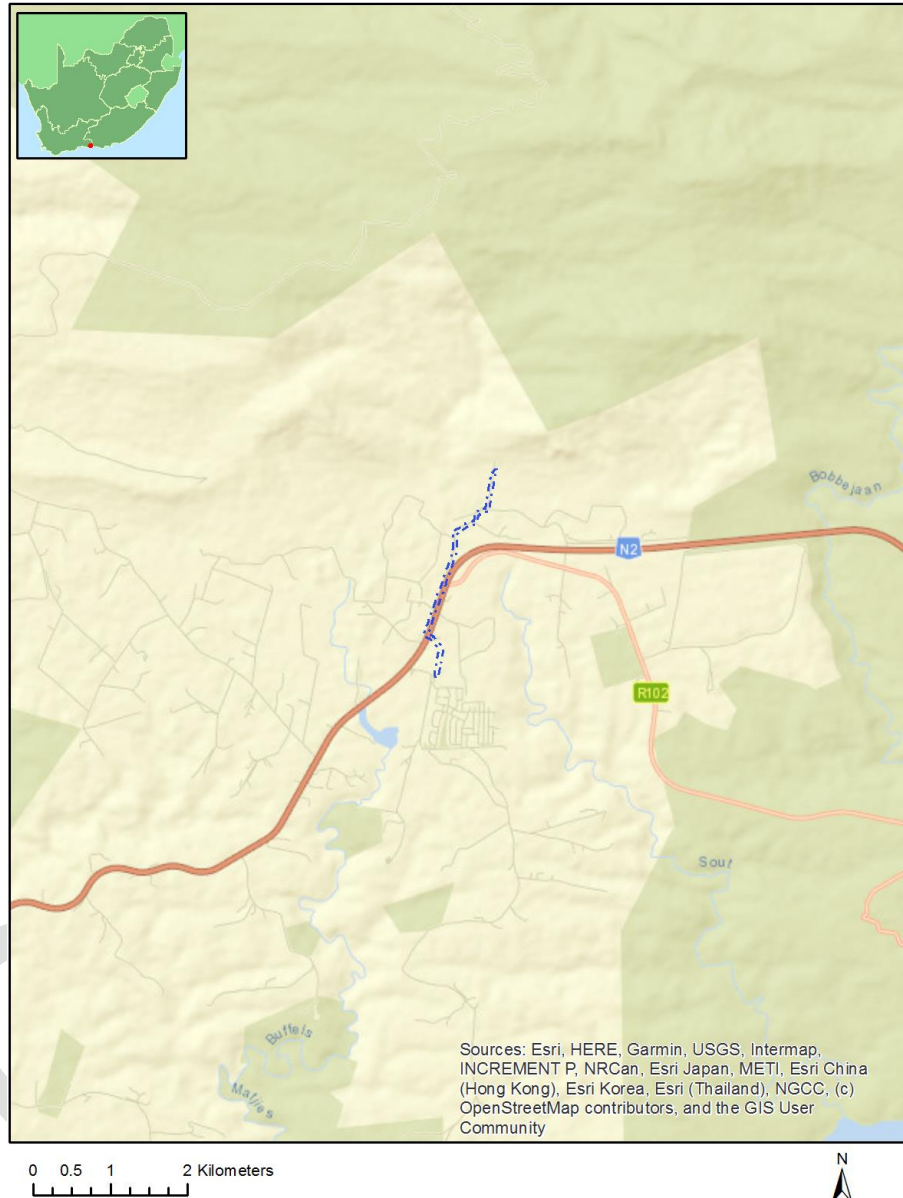
Table of Contents

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Orientation map 1: General location	3
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	5
Environmental Management Frameworks relevant to the application	5
Environmental screening results and assessment outcomes	5
Relevant development incentives, restrictions, exclusions or prohibitions	5
Map indicating proposed development footprint within applicable development incentive, restriction, exclusion or prohibition zones	6
Proposed Development Area Environmental Sensitivity	6
Specialist assessments identified	7
Results of the environmental sensitivity of the proposed area	9
MAP OF RELATIVE AGRICULTURE THEME SENSITIVITY	9
MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY	10
MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY	11
MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY	12
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MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY	16
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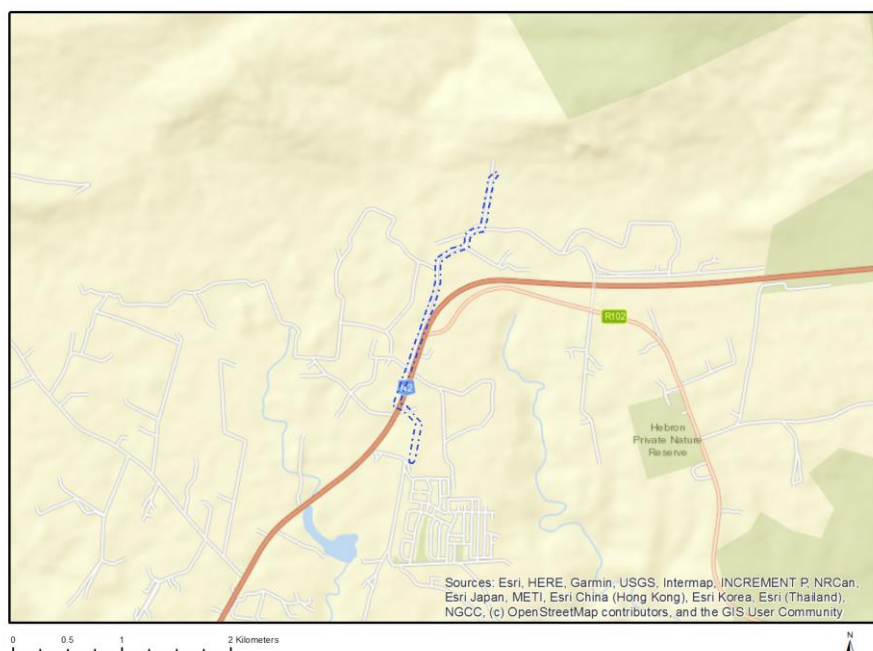
Proposed Project Location

Orientation map 1: General location

General Orientation: PROPOSED UPGRADES TO THE BULK WATER INFRASTRUCTURE, KURLAND, BITOU LOCAL MUNICIPALITY



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		506	0	33°55'47.45S	23°29'11.07E	Farm
2	LOT SOLWAY	240	0	33°56'38.43S	23°29'44.35E	Farm
3	BLACK DOG	587	0	33°55'59.41S	23°29'41.11E	Farm
4		585	0	33°55'42.01S	23°30'8.56E	Farm
5		288	0	33°56'48.06S	23°28'34.31E	Farm
6		584	0	33°55'7.82S	23°29'35.2E	Farm
7	BUFFELS RIVIER	462	0	33°56'35.24S	23°29'22.71E	Farm
8	LOT SOLWAY	240	0	33°56'32.96S	23°29'39.22E	Farm Portion
9	BUFFELS RIVIER	462	0	33°56'35.24S	23°29'22.71E	Farm Portion
10		506	5	33°56'18.41S	23°29'20.68E	Farm Portion
11		288	65	33°56'29.9S	23°29'21.42E	Farm Portion
12		506	1	33°55'55.17S	23°29'36.32E	Farm Portion
13		236	2	33°55'37.17S	23°29'45.72E	Farm Portion
14		236	0	33°54'59.29S	23°29'31.13E	Farm Portion
15		288	69	33°56'31.97S	23°29'17.72E	Farm Portion
16		288	0	33°56'58.37S	23°28'57.73E	Farm Portion
17		506	3	33°56'20.11S	23°29'20.87E	Farm Portion
18		585	0	33°55'40.67S	23°30'8.29E	Farm Portion
19		236	3	33°55'44S	23°29'47.5E	Farm Portion
20		236	0	33°55'0.76S	23°29'30.82E	Farm Portion
21		288	0	33°57'3.02S	23°29'3.34E	Farm Portion
22		506	0	33°55'48.26S	23°29'10.95E	Farm Portion
23		506	0	33°55'46.3S	23°29'11.03E	Farm Portion
24		584	0	33°54'57.66S	23°29'31.14E	Farm Portion
25	LOT SOLWAY	240	0	33°56'31.84S	23°29'39.83E	Farm Portion
26		288	67	33°56'32.84S	23°29'15.33E	Farm Portion
27		288	74	33°56'33.06S	23°29'21.47E	Farm Portion
28		288	65	33°56'31.77S	23°29'20.92E	Farm Portion

29		585	0	33°55'38.48S	23°30'8.93E	Farm Portion
30		288	75	33°57'5.21S	23°28'47.76E	Farm Portion
31		506	2	33°56'11.51S	23°29'27.51E	Farm Portion
32		506	6	33°55'59.73S	23°29'35.6E	Farm Portion
33	BLACK DOG	587	0	33°55'59.41S	23°29'41.11E	Farm Portion

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

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No nearby wind or solar developments found.

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

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

Utilities Infrastructure | Pipelines | Water | Fresh_Storm Water.

Relevant development incentives, restrictions, exclusions or prohibitions

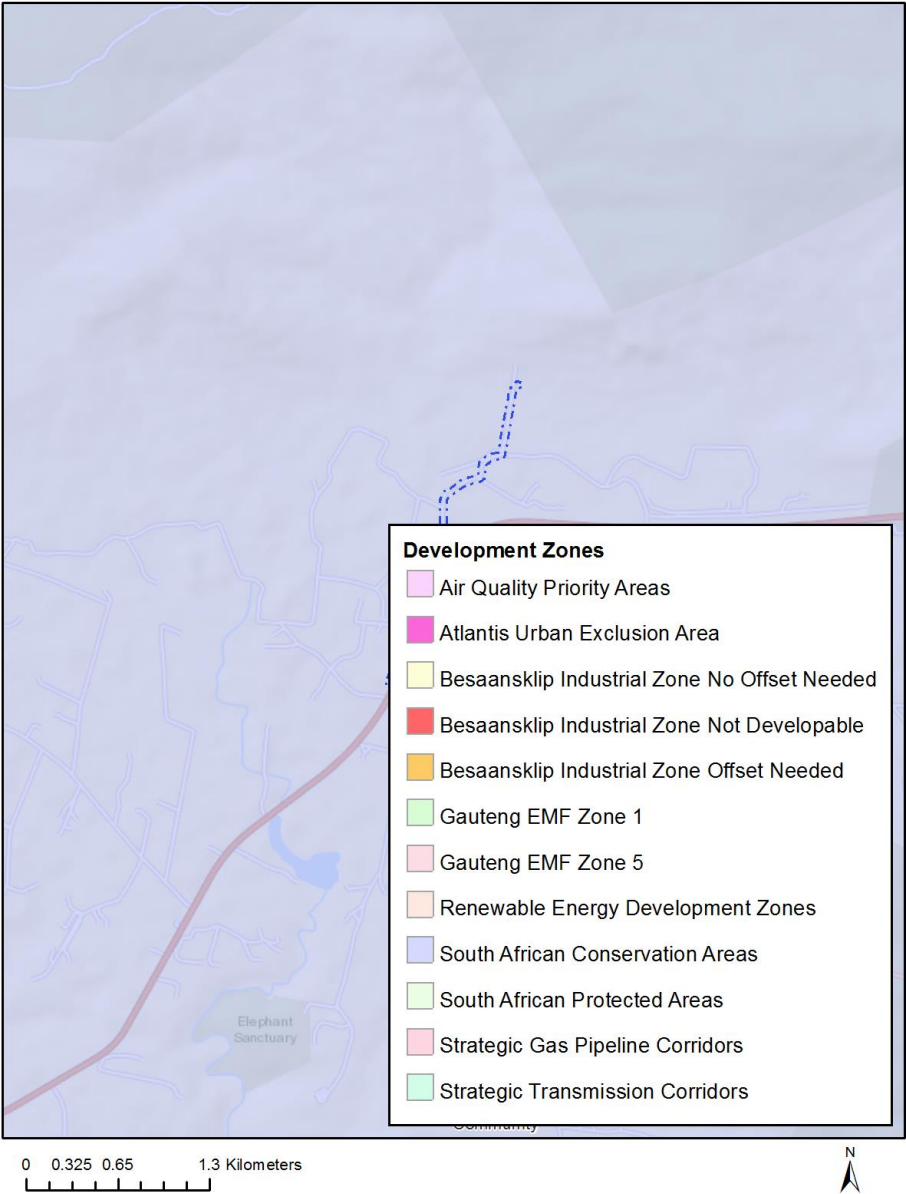
The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

Incentive, restriction or prohibition	Implication
South African Conservation Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACAD_OR_2022_Q2_Metadata.pdf

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.

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

Project Location: PROPOSED UPGRADES TO THE BULK WATER INFRASTRUCTURE, KURLAND, BITOU LOCAL MUNICIPALITY



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 environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

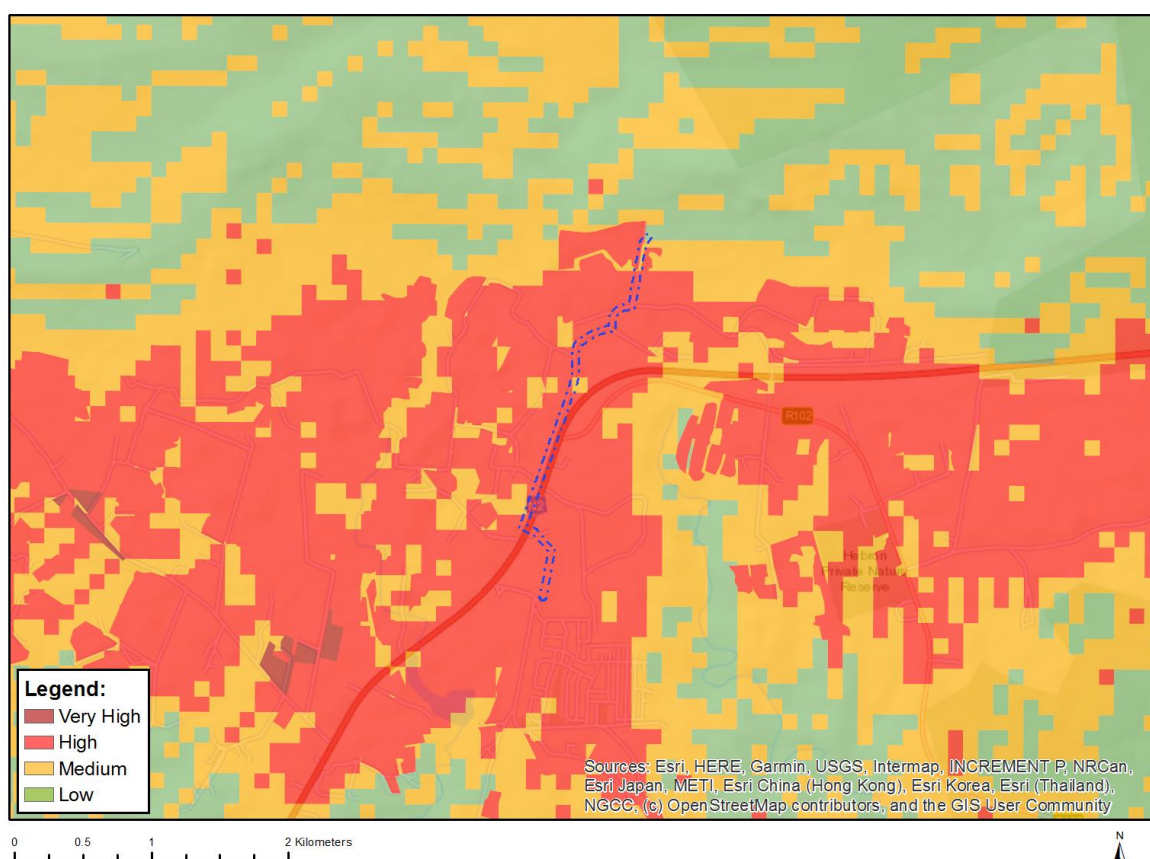
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Paleontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf

6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
7	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
9	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

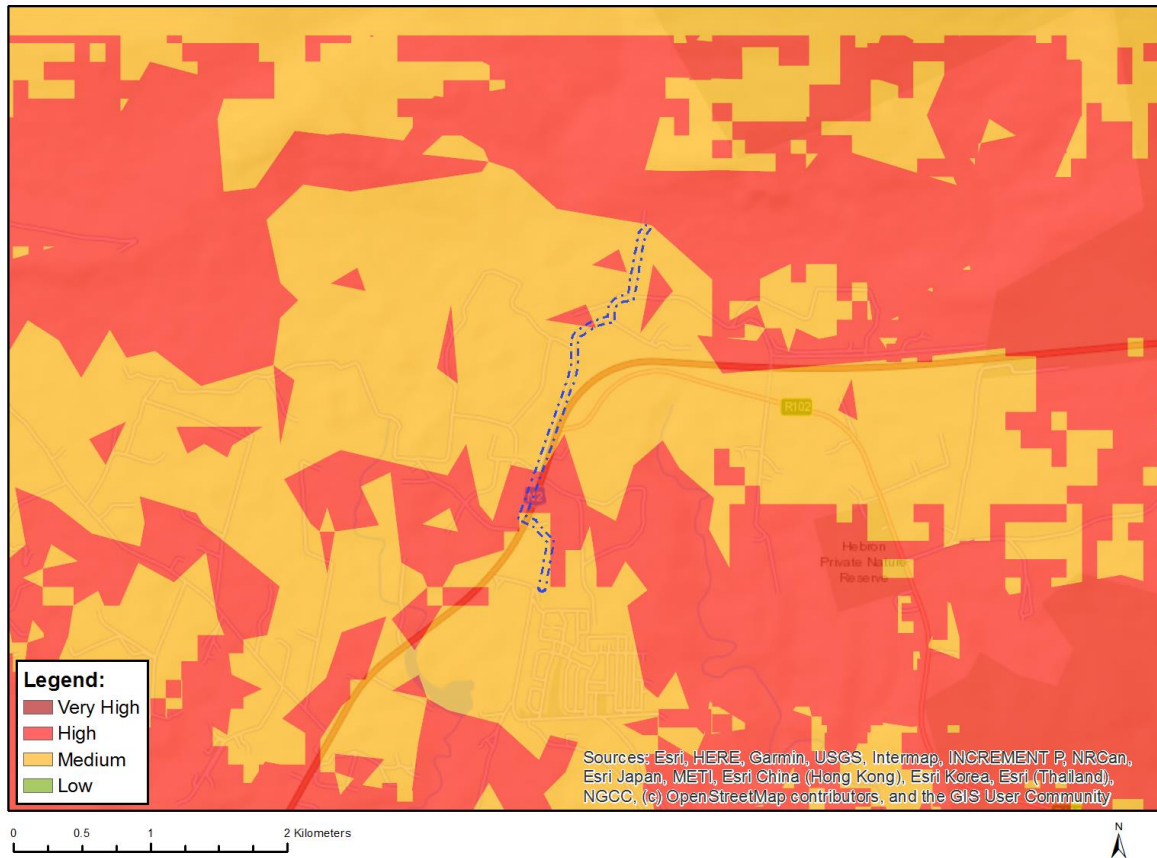


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Land capability;09. Moderate-High/10. Moderate-High
High	Small Holdings;Land capability;09. Moderate-High/10. Moderate-High
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;09. Moderate-High/10. Moderate-High
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate
High	Annual Crop Cultivation / Planted Pastures Rotation;Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
Low	Land capability;01. Very low/02. Very low/03. Low-Very low/04. Low-Very low/05. Low
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



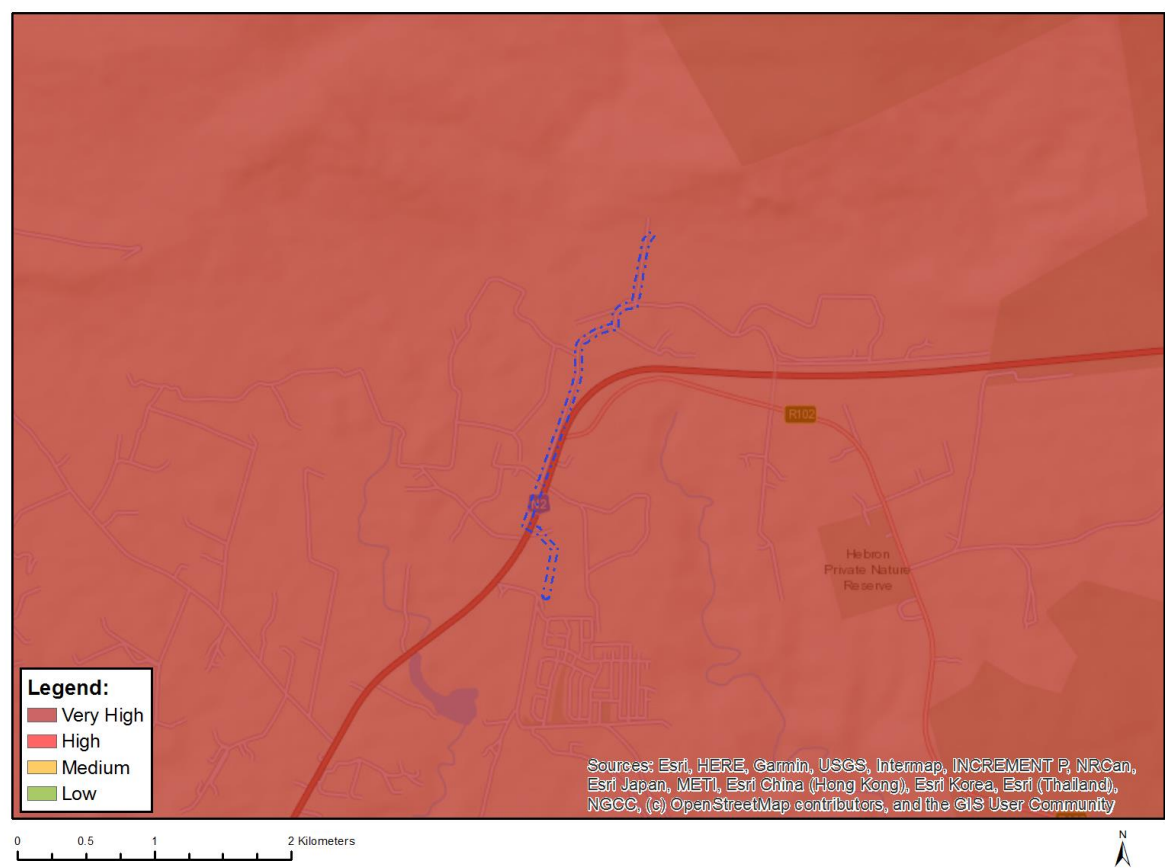
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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-Bradypterus sylvaticus
Medium	Amphibia-Afrixalus knysnae
Medium	Aves-Stephanoaetus coronatus
Medium	Insecta-Tsitana dicksoni
Medium	Mammalia-Chlorotalpa duthieae
Medium	Sensitive species 8
Medium	Invertebrate-Sarophorus punctatus
Medium	Invertebrate-Aneuryphymus montanus

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

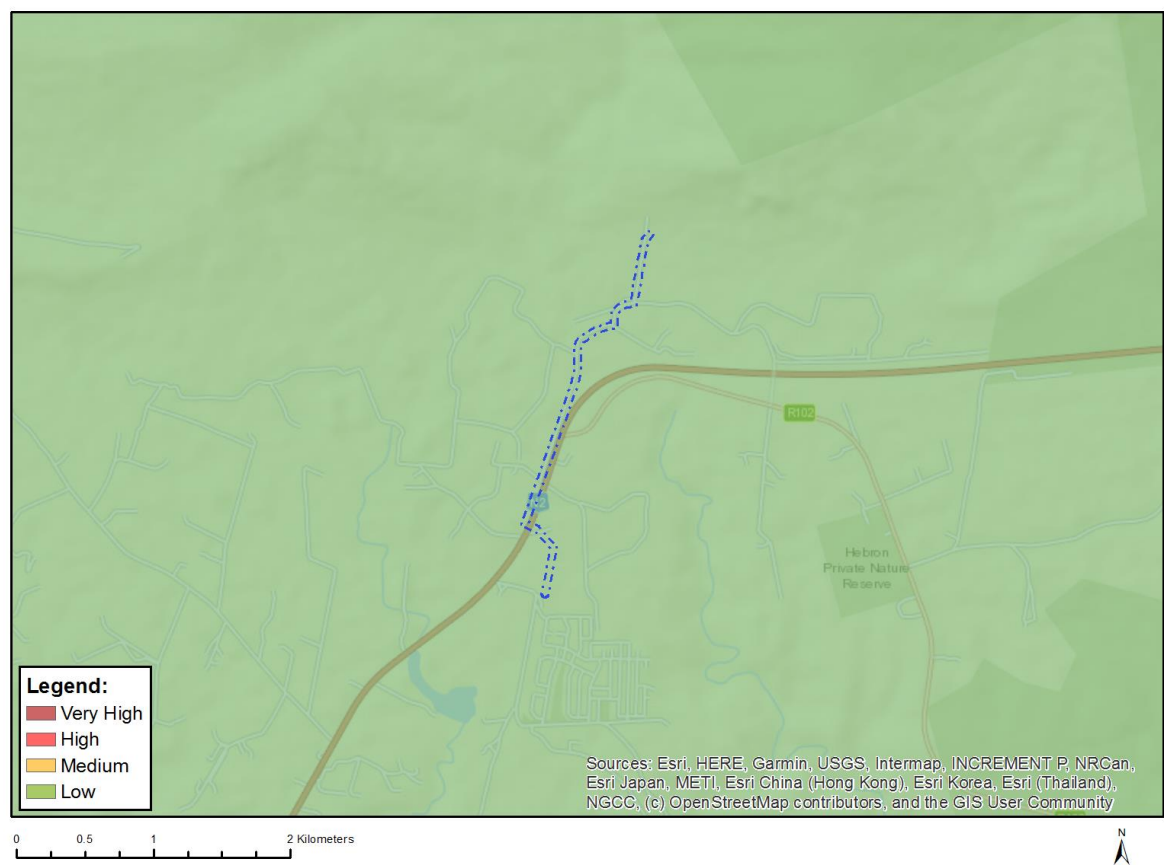


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Strategic water source area
Very High	Freshwater ecosystem priority area quinary catchments

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

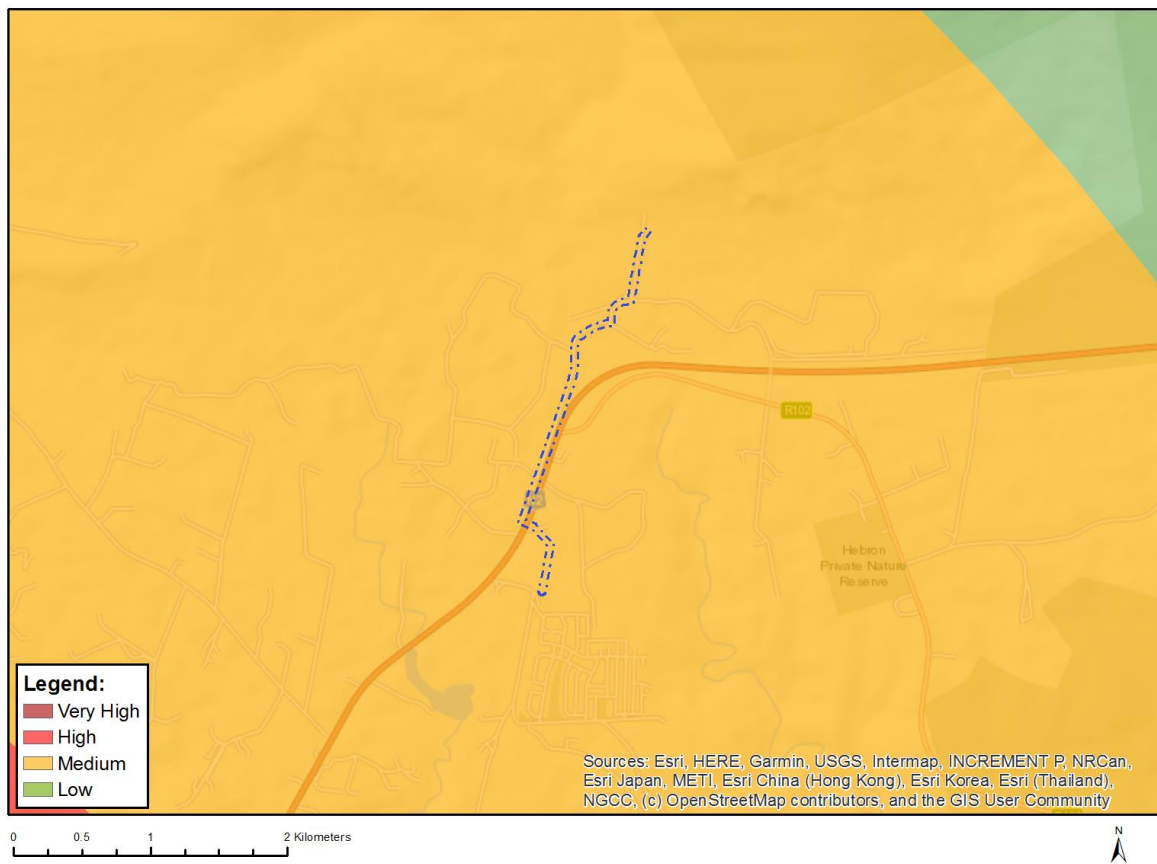


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

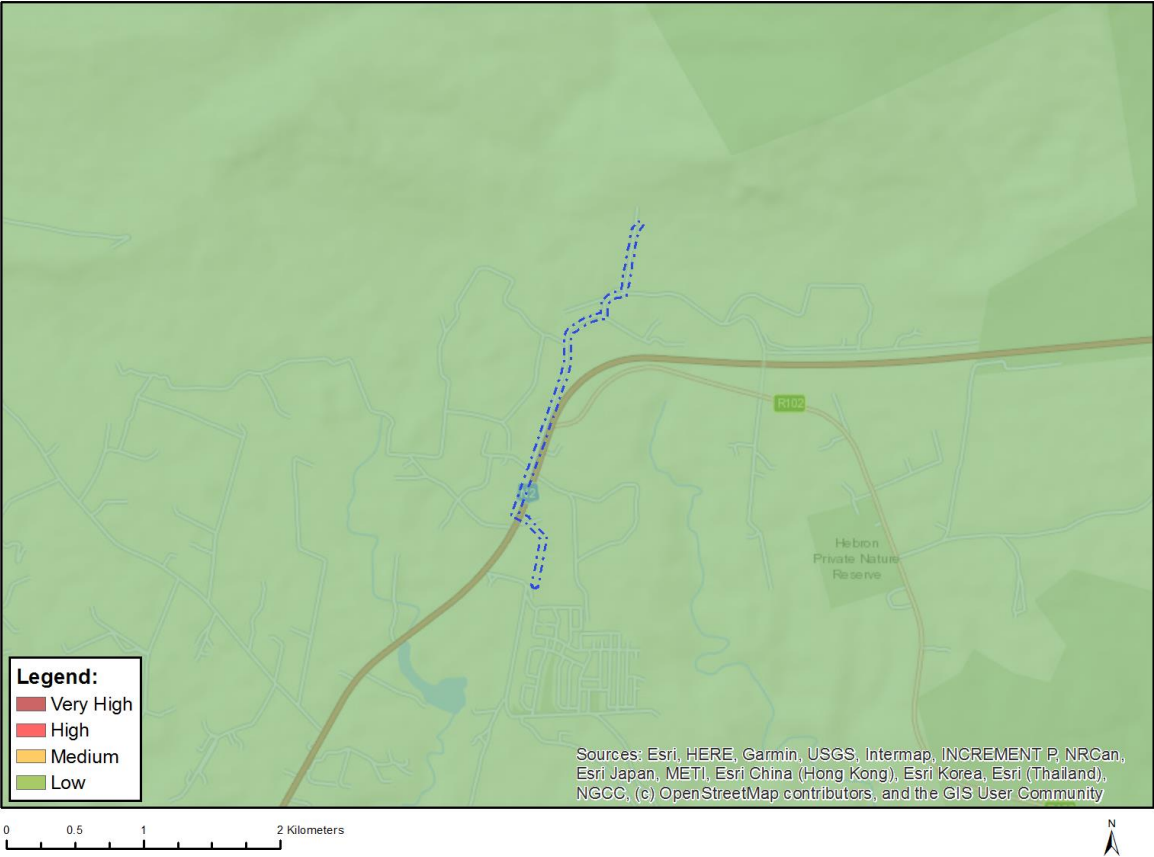


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

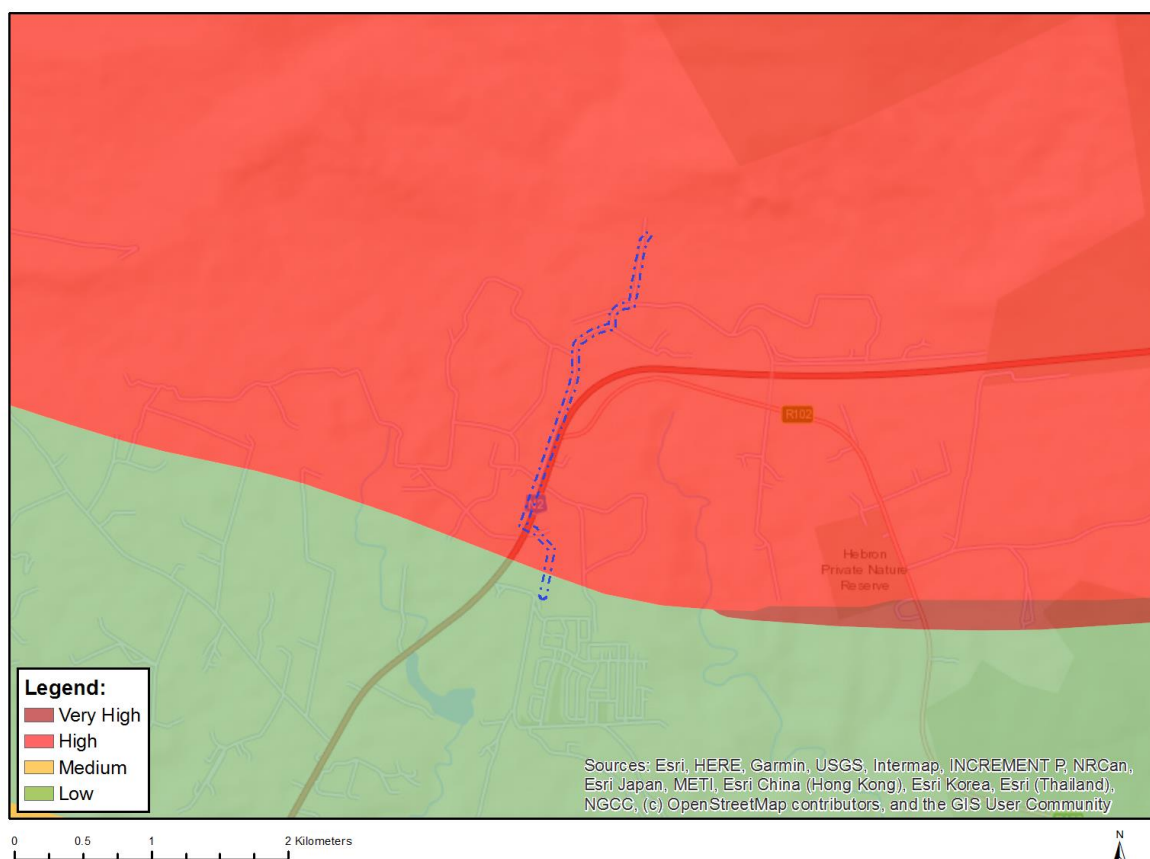


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

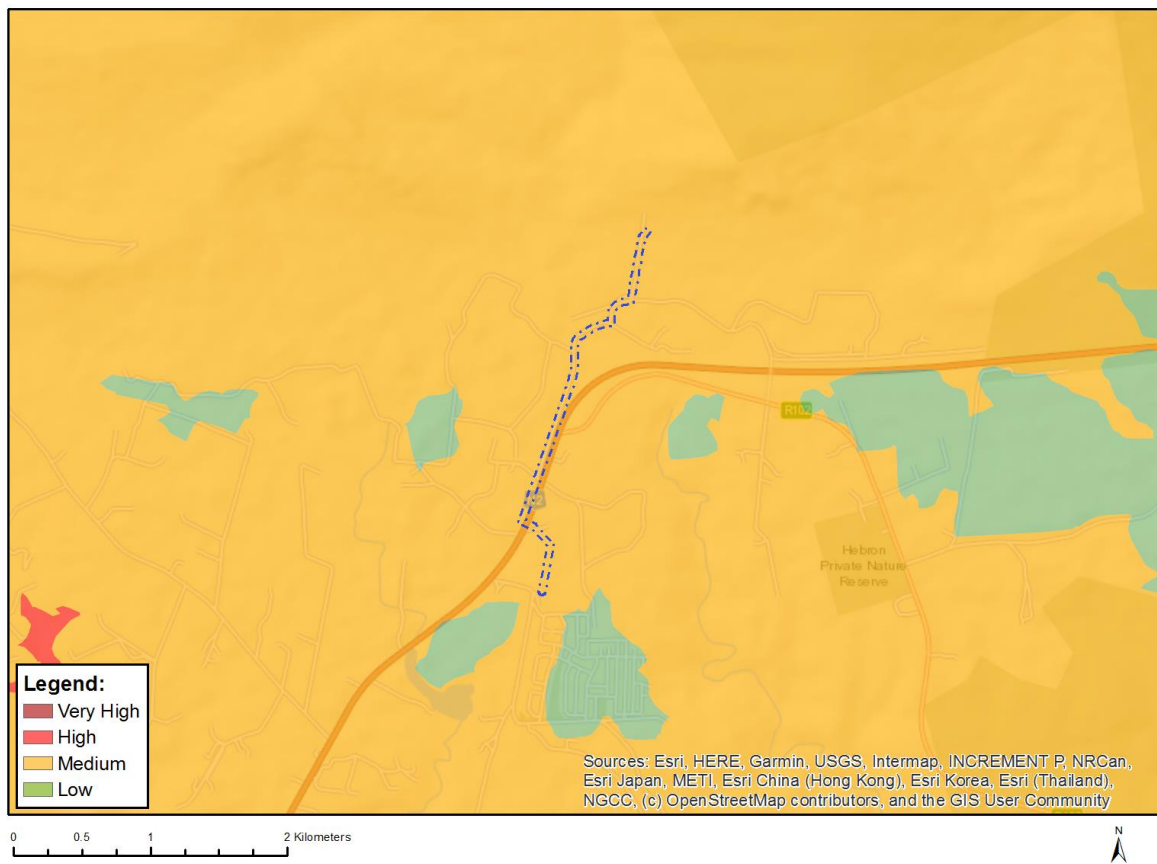


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

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

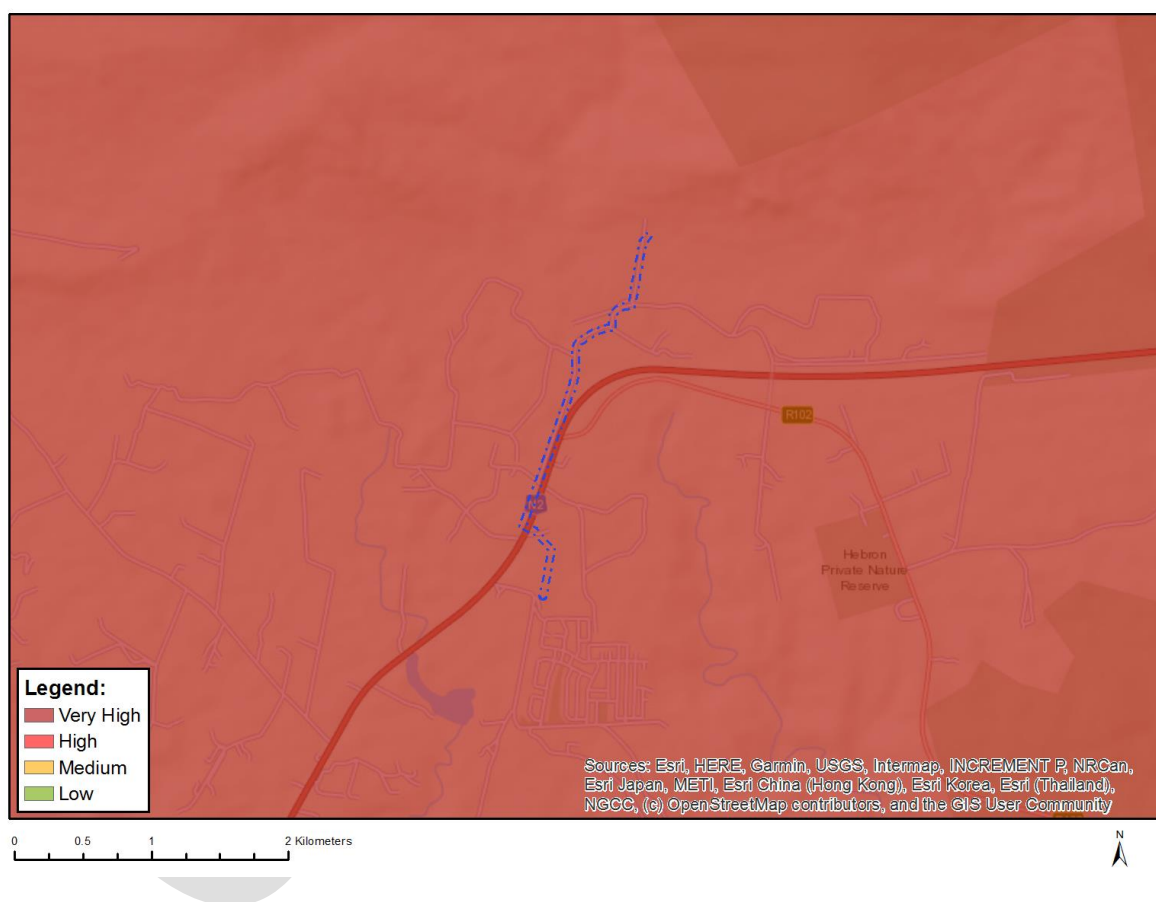
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Medium	Faurea macnaughtonii
Medium	Ocotea bullata
Medium	Ruschia duthiae
Medium	Indigofera hispida
Medium	Aspalathus bowieana
Medium	Amauropelta knysnaensis
Medium	Leucospermum glabrum
Medium	Mimetes pauciflorus
Medium	Mimetes splendidus
Medium	Selago rotundifolia
Medium	Psydrax capensis
Medium	Sensitive species 419
Medium	Erica onusta

Medium	<i>Erica stylaris</i>
Medium	<i>Erica glandulosa</i> subsp. <i>fourcadei</i>
Medium	<i>Centella longifolia</i>
Medium	Sensitive species 1038
Medium	<i>Marsilea schelpeana</i>
Medium	<i>Felicia westae</i>
Medium	<i>Osteospermum pterigoideum</i>
Medium	Sensitive species 1171
Medium	Sensitive species 53
Medium	Sensitive species 654
Medium	<i>Acrolophia lunata</i>
Medium	Sensitive species 763
Medium	<i>Pterygodium cleistogamum</i>

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Critical biodiversity area 1
Very High	Ecological support area 1
Very High	Ecological support area 2
Very High	FEPA Subcatchments

Very High	Protected Areas Expansion Strategy
Very High	Protected Areas Expansion Strategy: Sanparks
Very High	Strategic Water Source Areas

OFFICIAL

APPENDIX 17: SCREENING TOOL G

PROPOSED 200MM SUPPLY PIPELINE TO KURLAND
HOUSING

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

EIA Reference number: 16/3/3/6/7/1/D1/9/0093/22

Project name: PROPOSED UPGRADES TO THE BULK WATER INFRASTRUCTURE, KURLAND, BITOU
LOCAL MUNICIPALITY

Project title: PROPOSED 200MM SUPPLY PIPELINE TO KURLAND HOUSING

Date screening report generated: 11/11/2022 12:23:06

Applicant: BITOU LM

Compiler: SES

Compiler signature:

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Application Category: Utilities Infrastructure|Pipelines|Water|Fresh_Storm Water

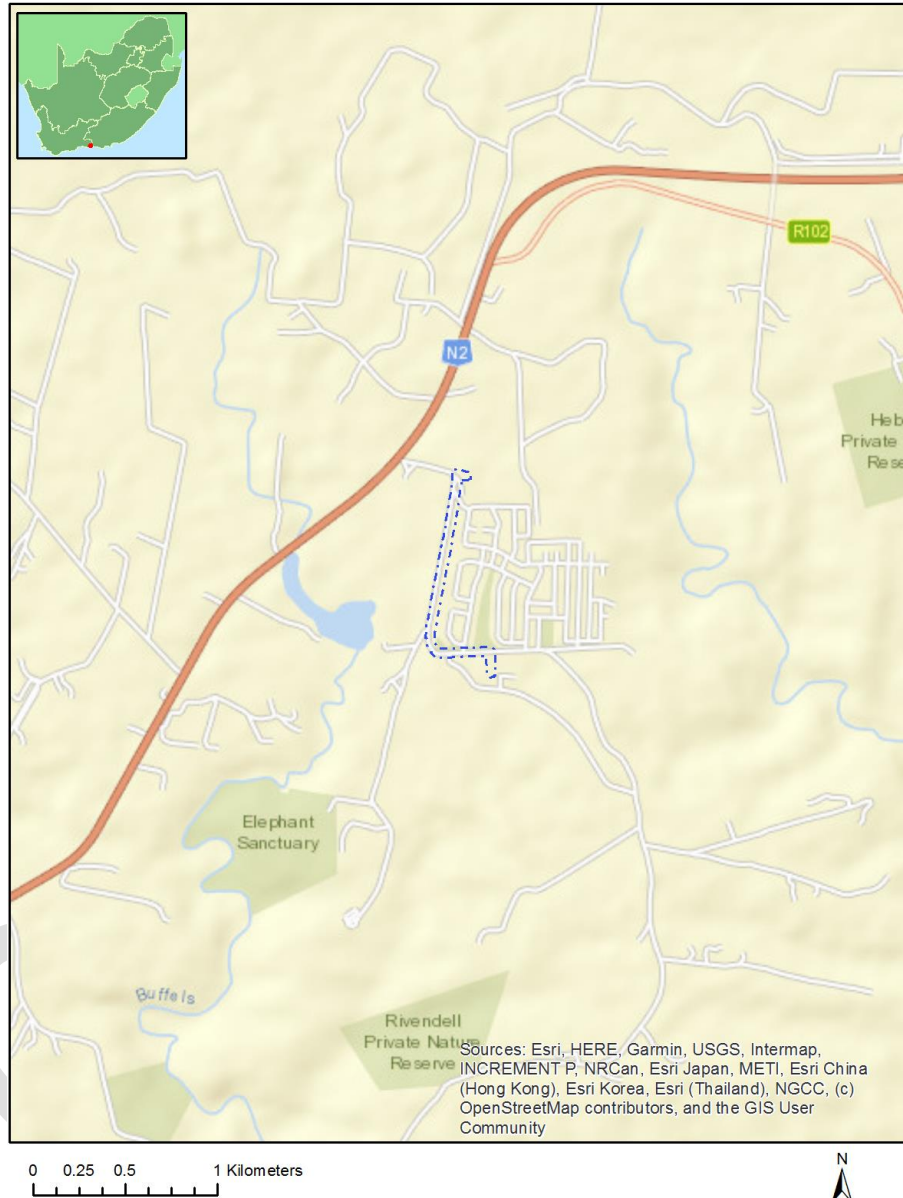
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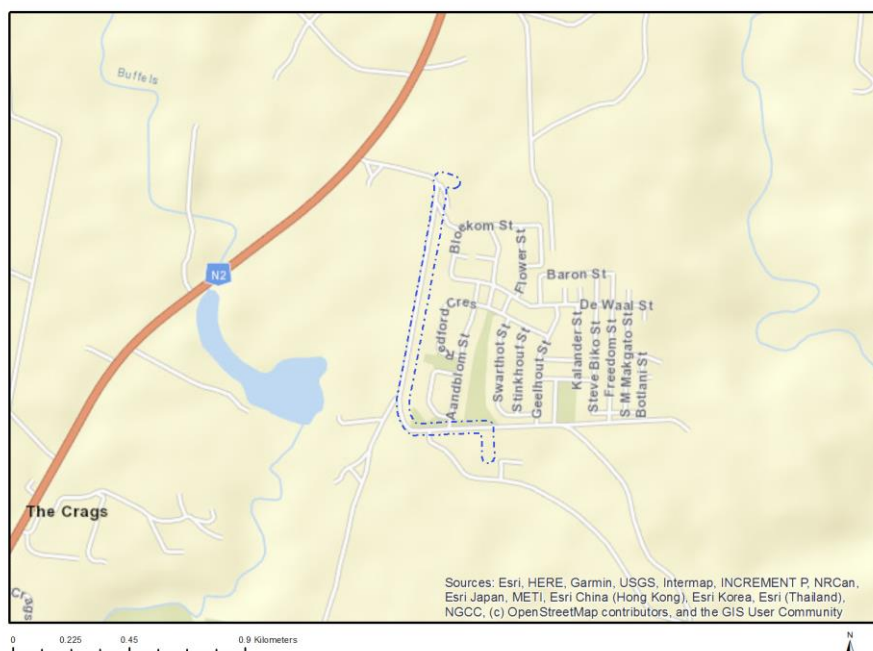
Proposed Project Location

Orientation map 1: General location

General Orientation: PROPOSED UPGRADES TO THE BULK WATER INFRASTRUCTURE, KURLAND, BITOU LOCAL MUNICIPALITY



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	KURLAND	935	0	33°57'13.32S	23°29'15.32E	Erven
2	KURLAND	939	0	33°57'15.7S	23°29'17.12E	Erven
3	KURLAND	940	0	33°57'29.34S	23°29'37.33E	Erven
4	KURLAND	536	0	33°57'15.67S	23°29'27.2E	Erven
5	KURLAND	936	0	33°57'13.64S	23°29'16.76E	Erven
6	KURLAND	58	0	33°57'13.83S	23°29'16.36E	Erven
7	KURLAND	937	0	33°57'13.57S	23°29'17.54E	Erven
8	KURLAND	938	0	33°57'13.57S	23°29'18.29E	Erven
9	KURLAND	562	0	33°57'29.58S	23°29'37.35E	Erven
10	LOT SOLWAY	240	0	33°56'38.43S	23°29'44.35E	Farm
11		288	0	33°56'48.06S	23°28'34.31E	Farm
12		302	0	33°57'49.02S	23°28'54.27E	Farm
13		288	0	33°56'58.37S	23°28'57.73E	Farm Portion
14	LOT SOLWAY	240	0	33°56'31.84S	23°29'39.83E	Farm Portion
15	LOT SOLWAY	240	0	33°56'32.96S	23°29'39.22E	Farm Portion
16		288	0	33°57'3.02S	23°29'3.34E	Farm Portion
17		302	16	33°57'18.75S	23°29'15.46E	Farm Portion
18		302	17	33°57'16.84S	23°29'11.9E	Farm Portion
19	KURLAND	36	0	33°57'9.12S	23°29'23.14E	Public Place
20	KURLAND	57	0	33°57'13.54S	23°29'20.18E	Public Place

Development footprint¹ vertices:

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 development footprint(s) specified.

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No nearby wind or solar developments found.

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

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

Utilities Infrastructure | Pipelines | Water | Fresh_Storm Water.

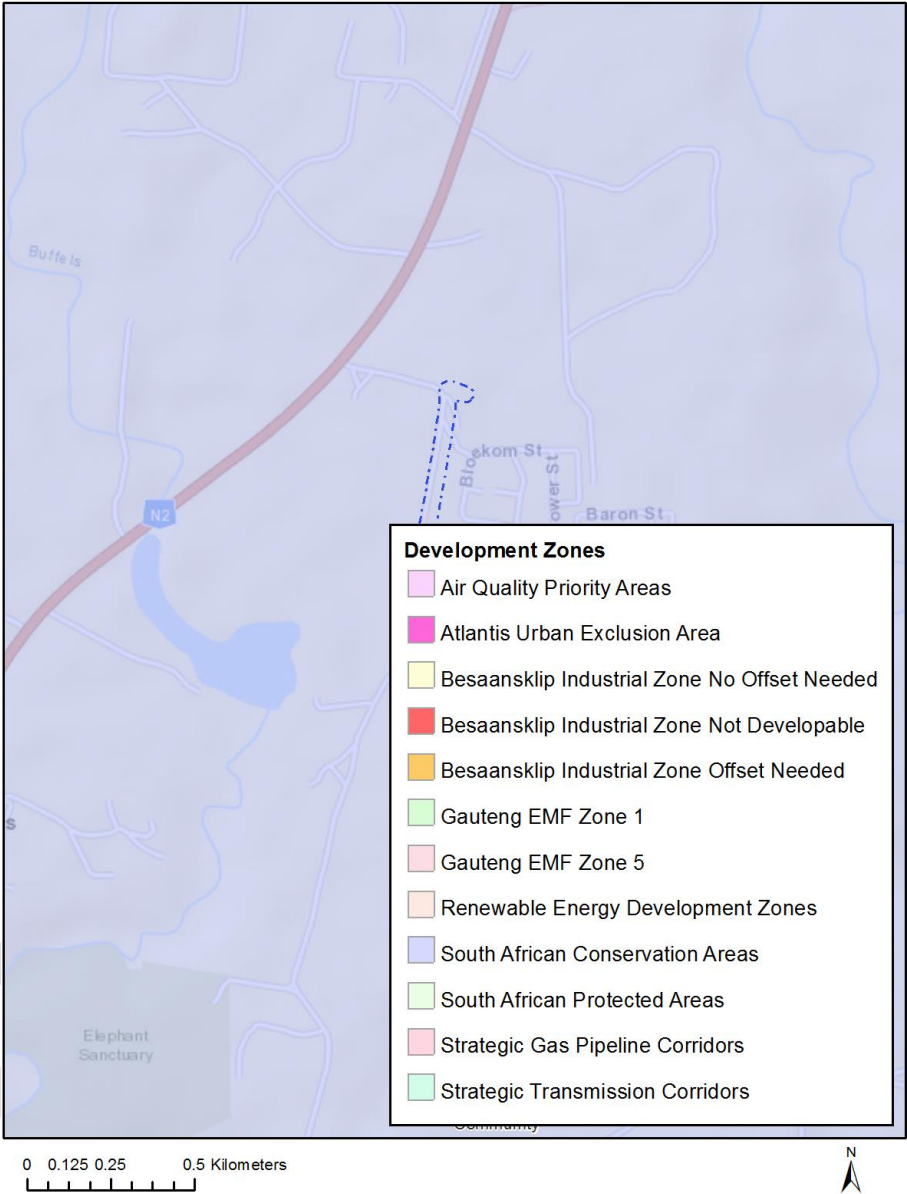
Relevant development incentives, restrictions, exclusions or prohibitions

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

Incentive, restriction or prohibition	Implication
South African Conservation Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACAD_OR_2022_Q2_Metadata.pdf

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

Project Location: PROPOSED UPGRADES TO THE BULK WATER INFRASTRUCTURE, KURLAND, BITOU LOCAL MUNICIPALITY



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 environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

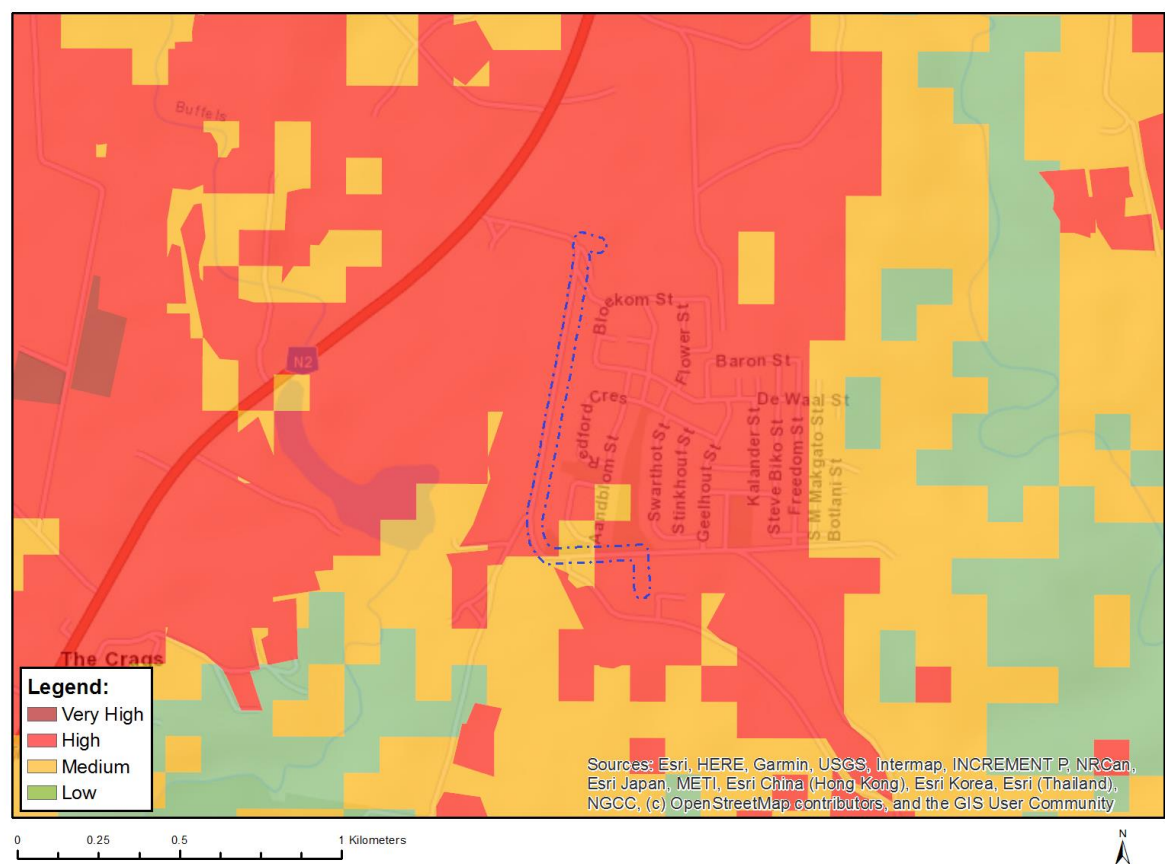
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Paleontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf

6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
7	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
9	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

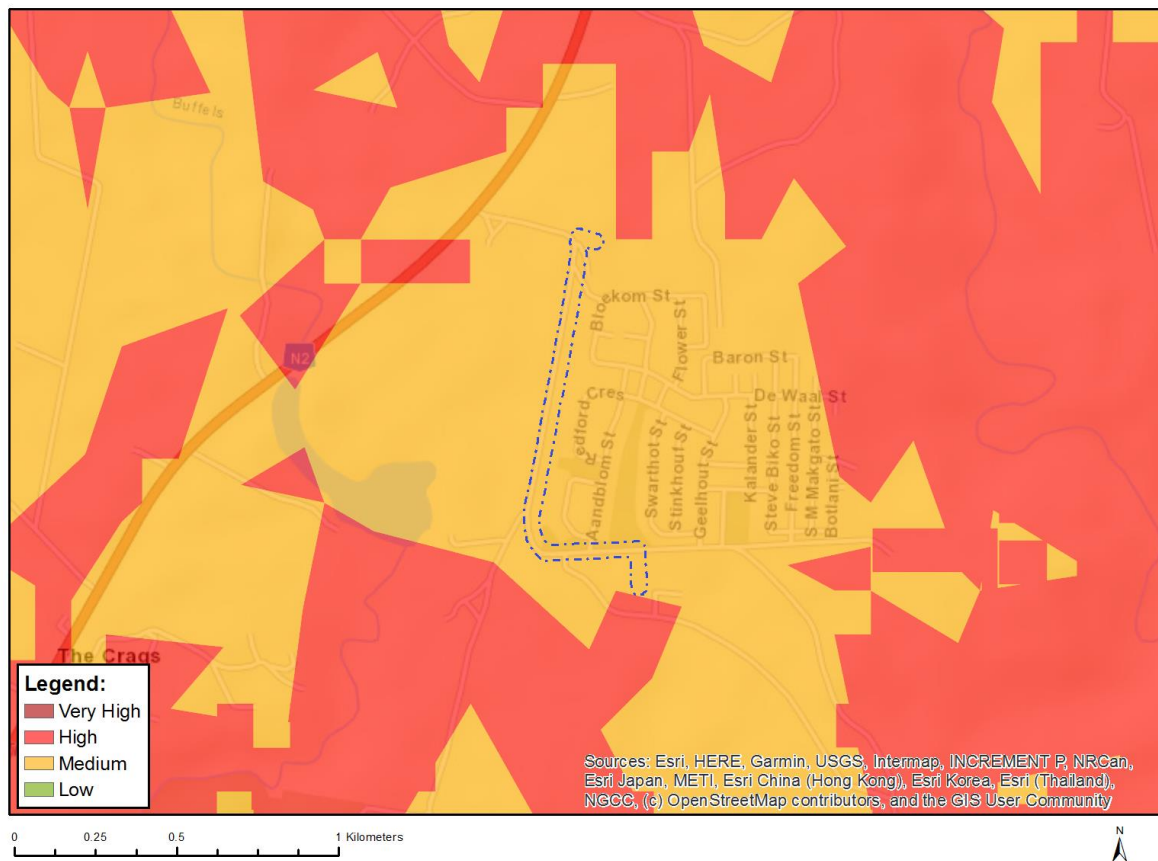


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



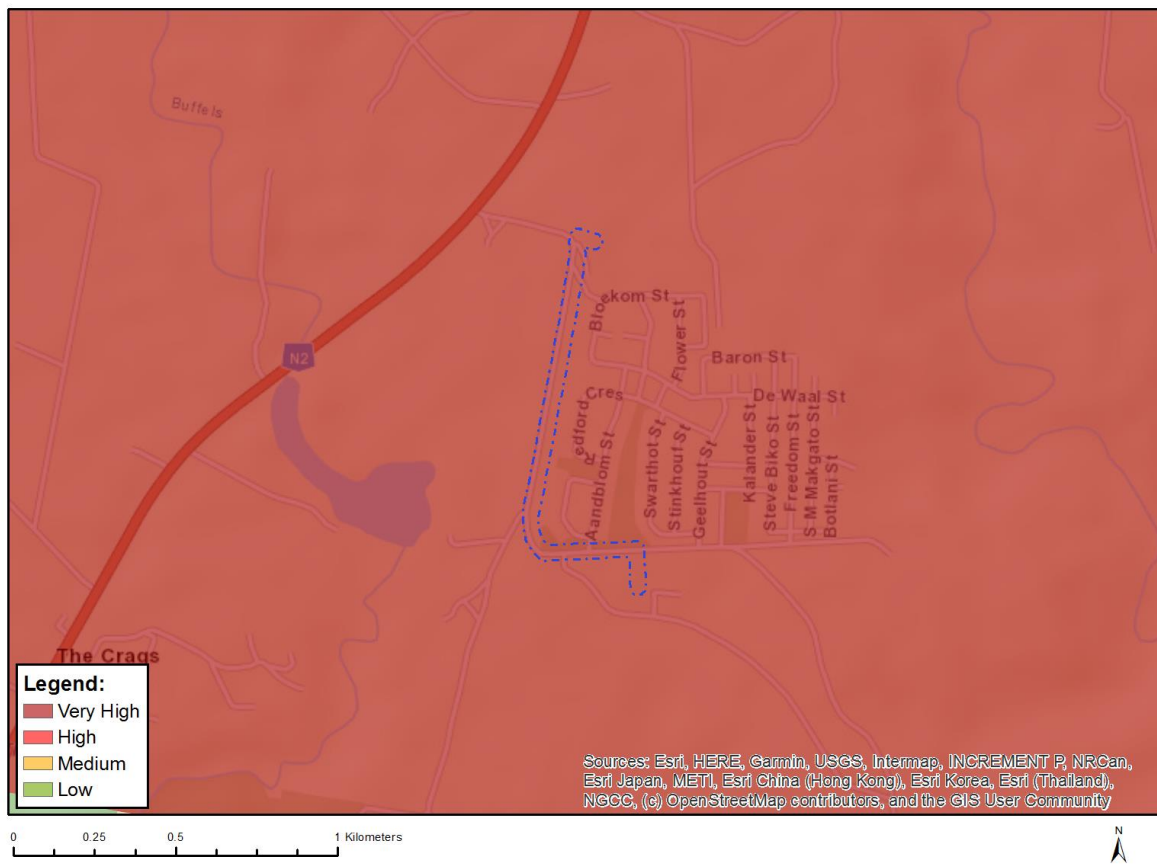
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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)
Medium	Amphibia-Afrixalus knysnae
Medium	Aves-Turnix hottentottus
Medium	Insecta-Tsitana dicksoni
Medium	Mammalia-Chlorotalpa duthieae
Medium	Sensitive species 8
Medium	Invertebrate-Sarophorus punctatus
Medium	Invertebrate-Aneuryphymus montanus

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

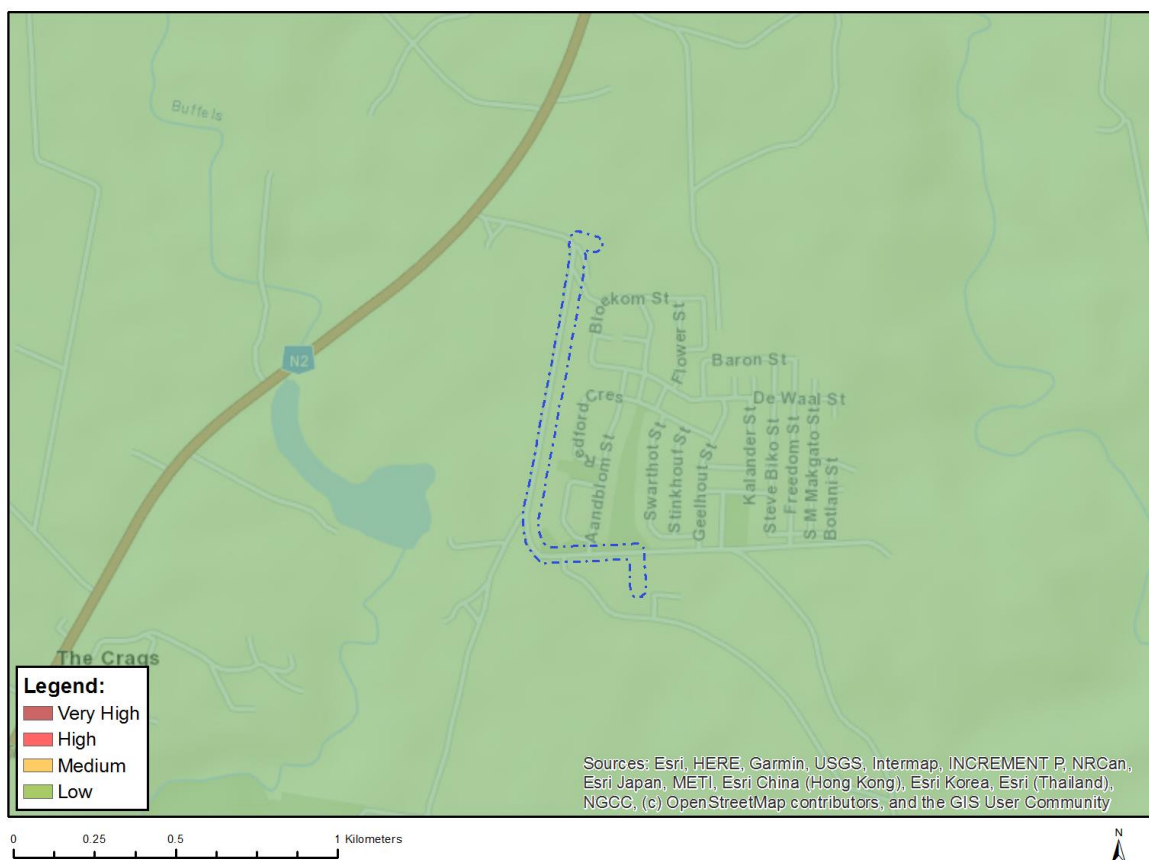


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Strategic water source area

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

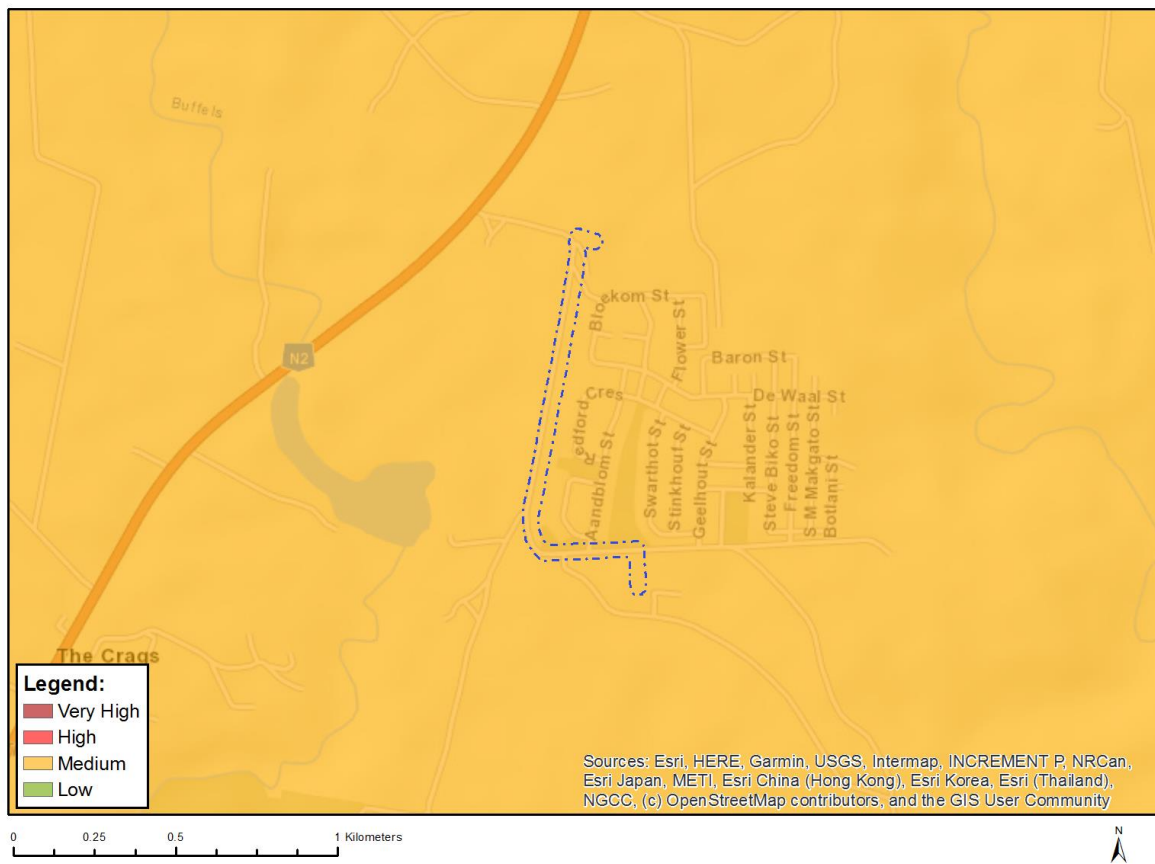


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

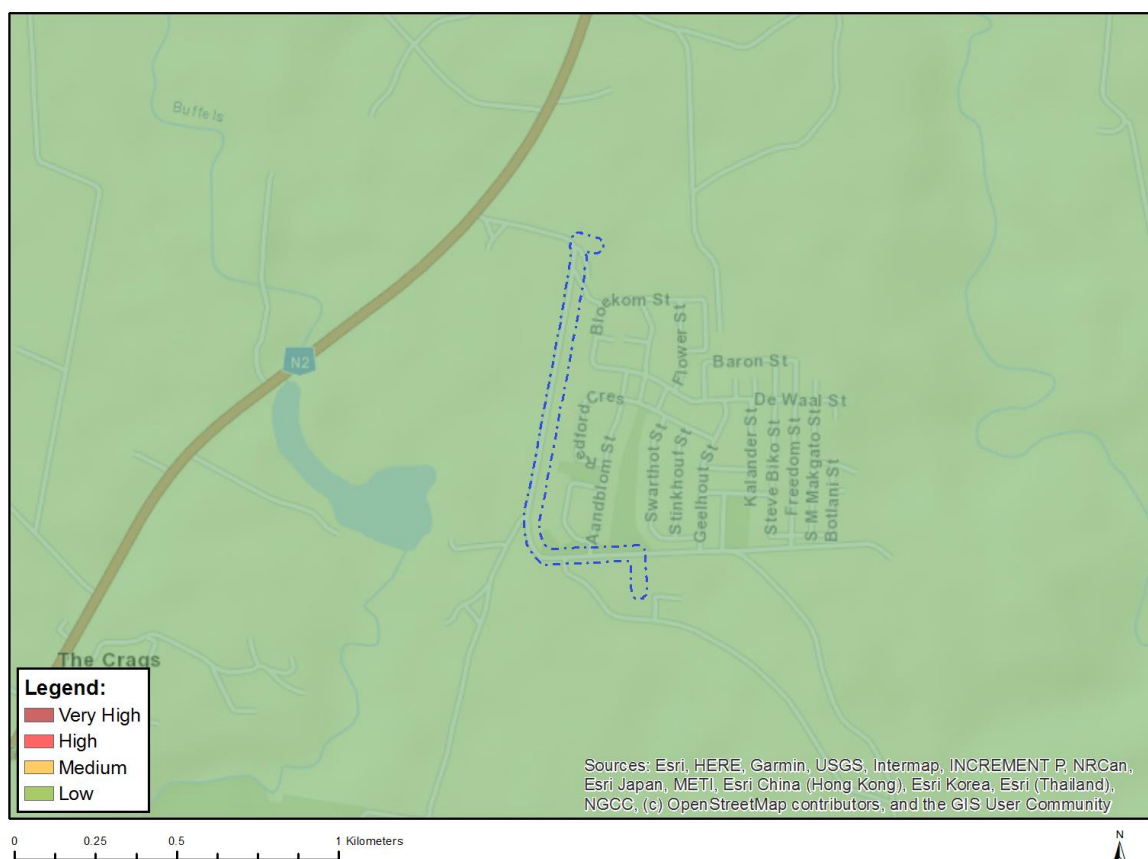


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

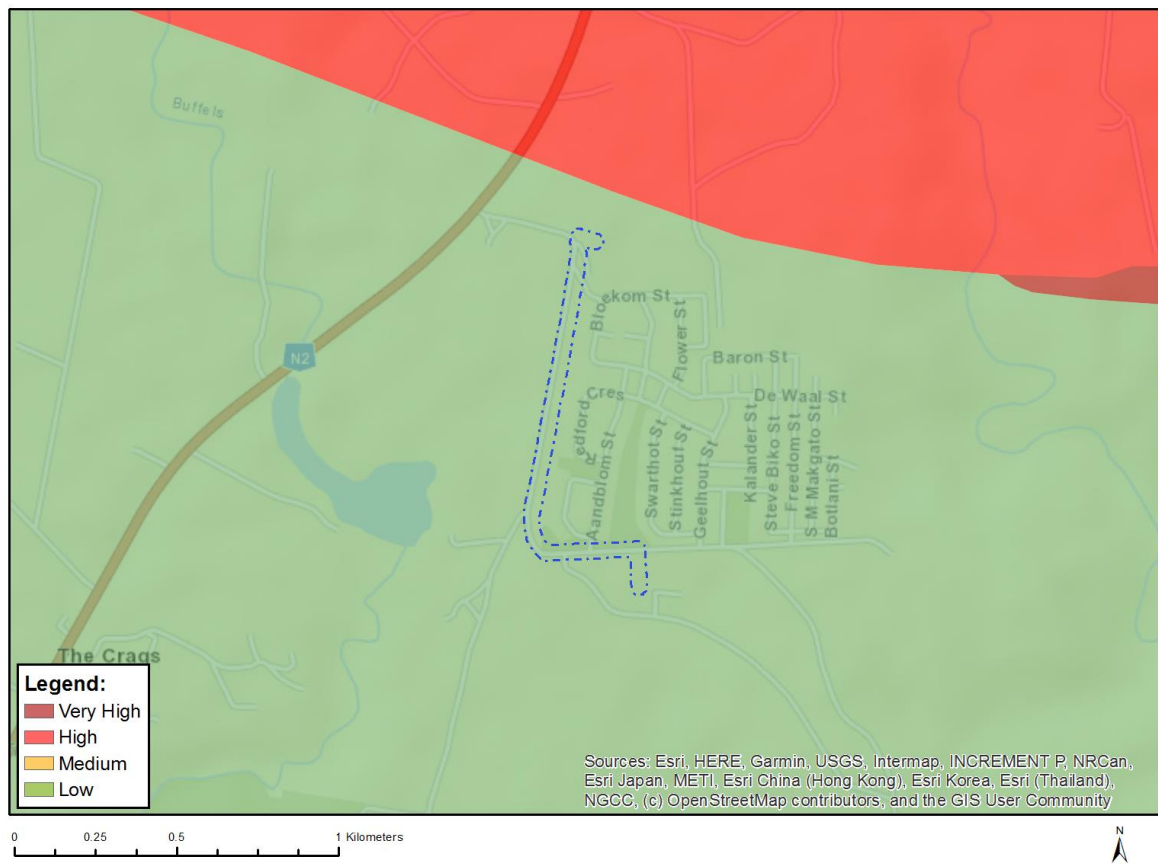


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

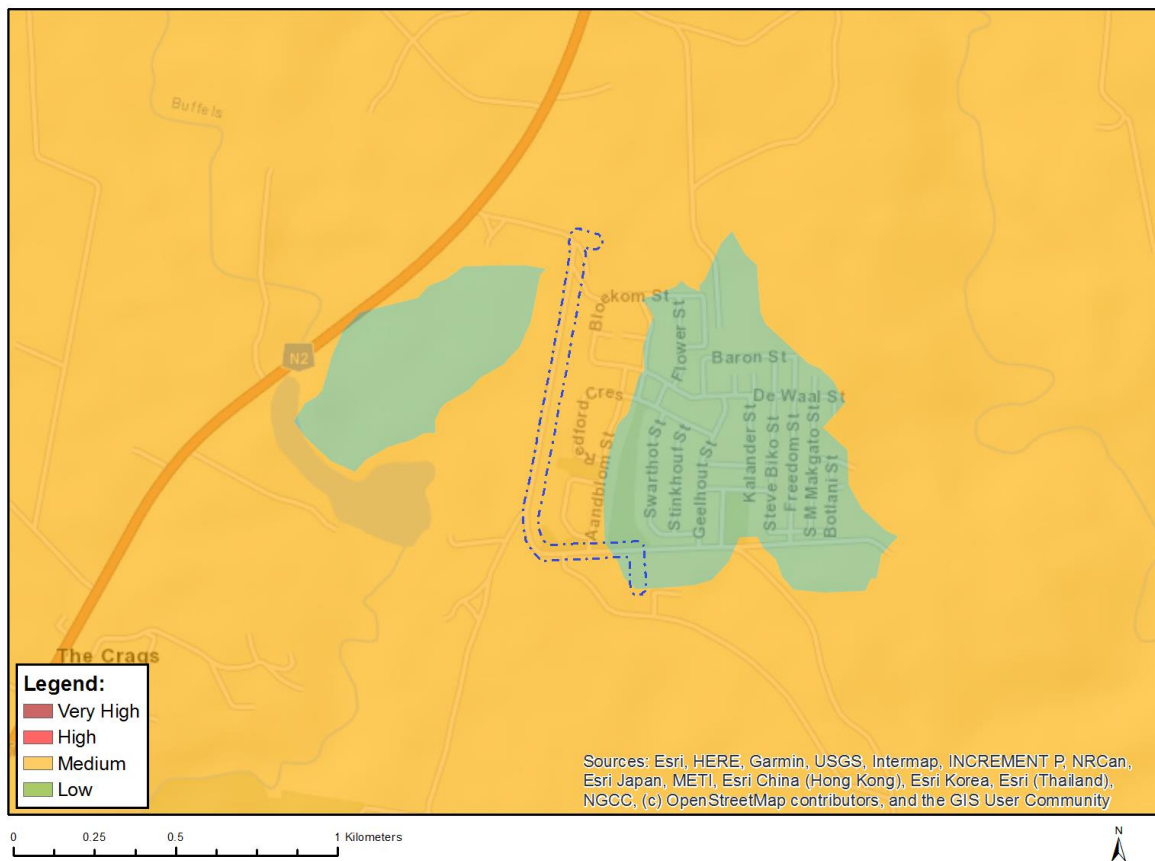


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Features with a Low 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.

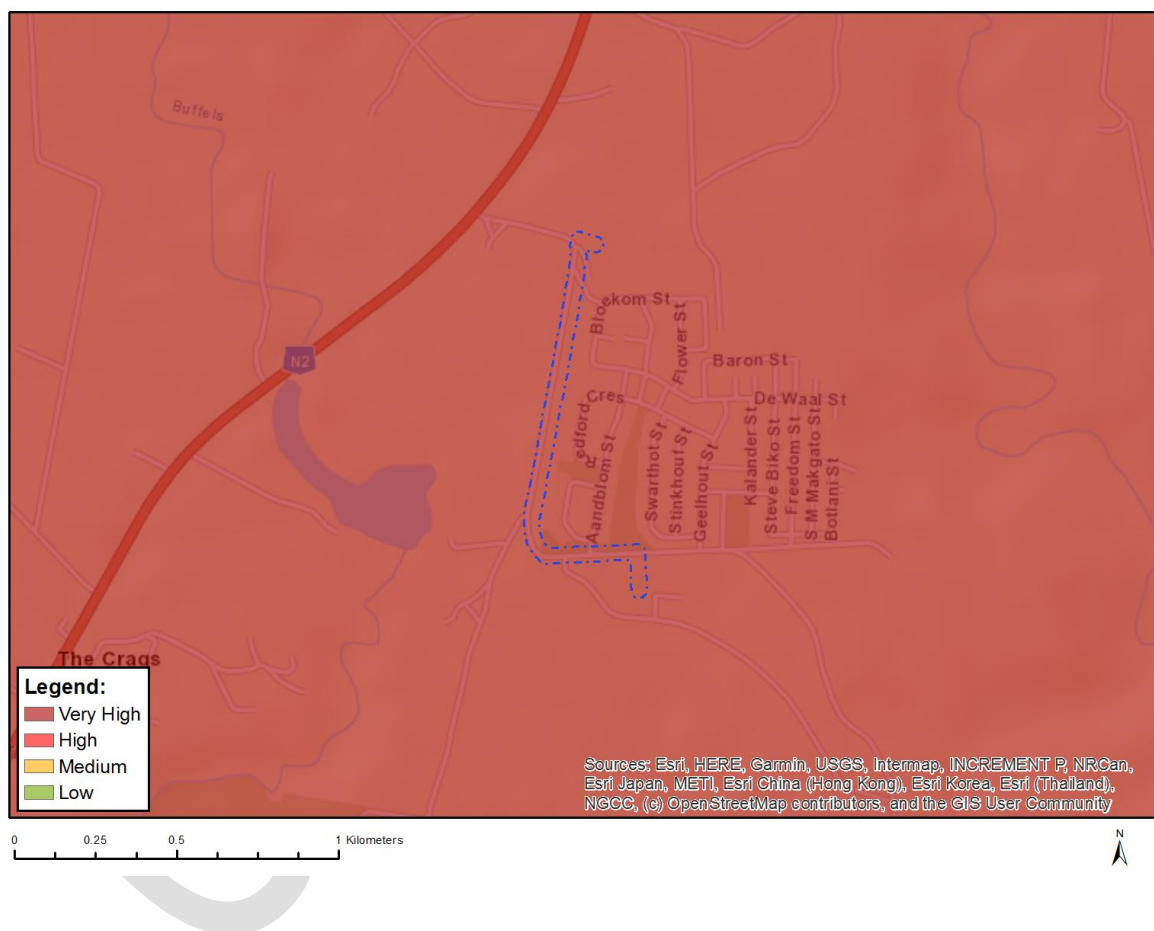
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Medium	Faurea macnaughtonii
Medium	Ocotea bullata
Medium	Ruschia duthiae
Medium	Indigofera hispida
Medium	Aspalathus bowieana
Medium	Amauropelta knysnaensis
Medium	Leucospermum glabrum
Medium	Mimetes pauciflorus
Medium	Selago rotundifolia
Medium	Psyrax capensis
Medium	Sensitive species 419
Medium	Erica onusta

Medium	<i>Erica stylaris</i>
Medium	<i>Erica glandulosa</i> subsp. <i>fourcadei</i>
Medium	<i>Centella longifolia</i>
Medium	Sensitive species 1038
Medium	<i>Marsilea schelpeana</i>
Medium	<i>Felicia westae</i>
Medium	<i>Osteospermum pterigoideum</i>
Medium	Sensitive species 53
Medium	Sensitive species 654
Medium	<i>Acrolophia lunata</i>
Medium	Sensitive species 763
Medium	<i>Pterygodium cleistogamum</i>

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Ecological support area 1
Very High	Ecological support area 2
Very High	Protected Areas Expansion Strategy: Sanparks
Very High	Strategic Water Source Areas

APPENDIX 18: SCREENING TOOL H

PROPOSED 200MM SUPPLY PIPELINE TO KURLAND
TOWNSHIP

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

EIA Reference number: 16/3/3/6/7/1/D1/9/0093/22

Project name: PROPOSED UPGRADES TO THE BULK WATER INFRASTRUCTURE, KURLAND, BITOU LOCAL MUNICIPALITY.

Project title: PROPOSED UPGRADES TO THE BULK WATER INFRASTRUCTURE, KURLAND, BITOU LOCAL MUNICIPALITY.

Date screening report generated: 01/11/2022 10:01:07

Applicant: BITOU LOCAL MUNICIPALITY

Compiler: SES

Compiler signature:

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Application Category: Utilities Infrastructure|Pipelines|Water|Fresh_Storm Water

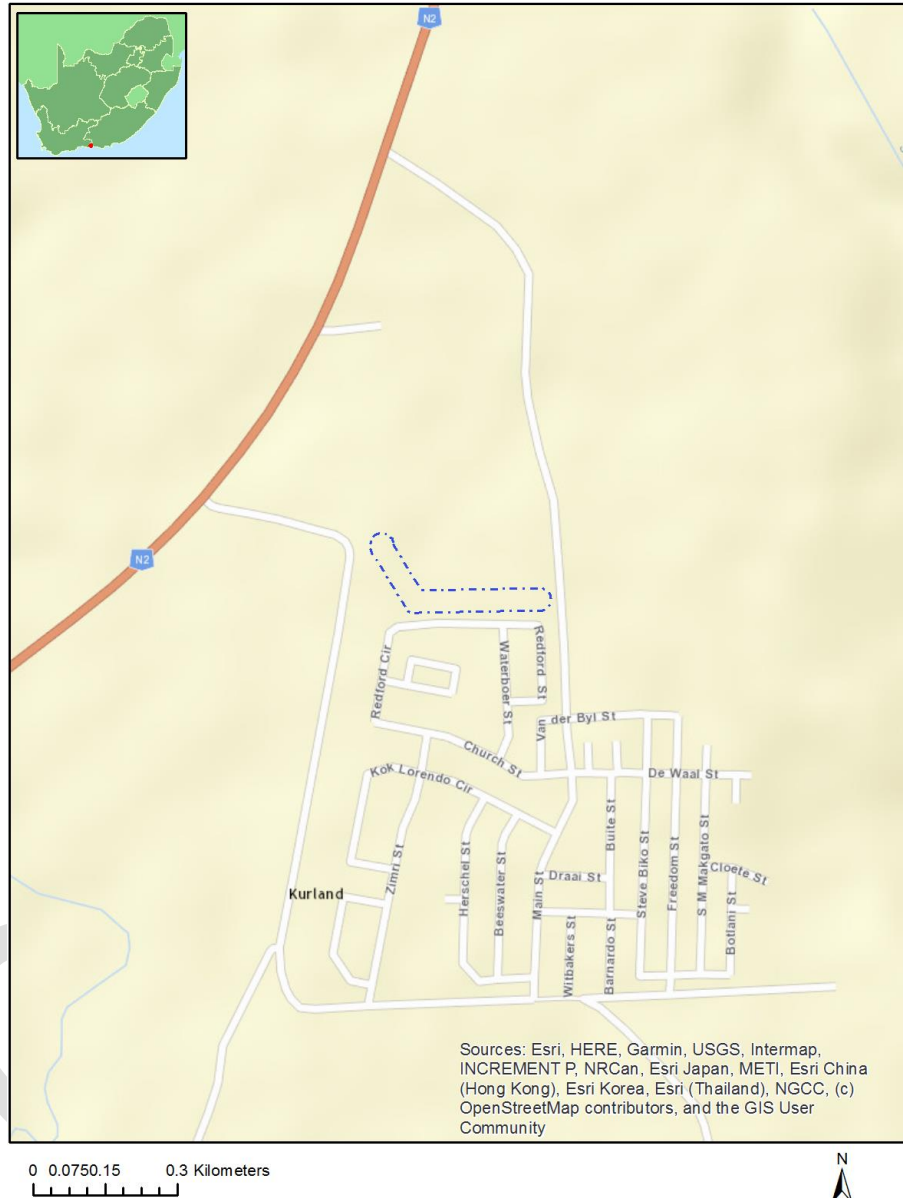
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MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY	17

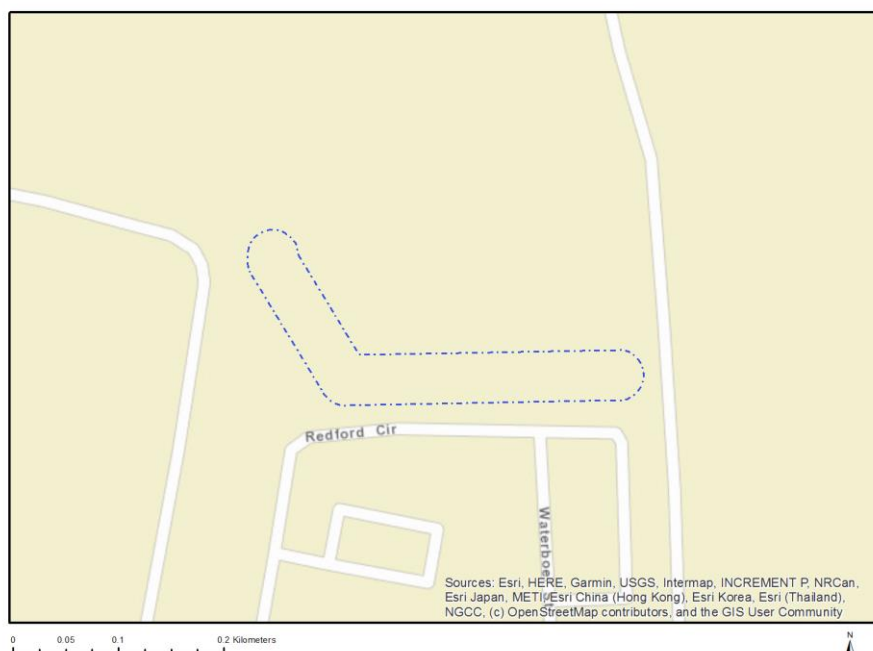
Proposed Project Location

Orientation map 1: General location

General Orientation: PROPOSED UPGRADES TO THE BULK WATER INFRASTRUCTURE, KURLAND, BITOU LOCAL MUNICIPALITY.



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	KURLAND	369	0	33°56'52.24S	23°29'26.29E	Erven
2	KURLAND	3	0	33°56'52.19S	23°29'29.83E	Erven
3	KURLAND	364	0	33°56'52.28S	23°29'22.15E	Erven
4	KURLAND	366	0	33°56'52.26S	23°29'23.04E	Erven
5	KURLAND	371	0	33°56'52.07S	23°29'26.96E	Erven
6	KURLAND	20	0	33°56'54.43S	23°29'33.84E	Erven
7	KURLAND	362	0	33°56'52.3S	23°29'21.25E	Erven
8	KURLAND	367	0	33°56'52.24S	23°29'23.49E	Erven
9	KURLAND	372	0	33°56'52.05S	23°29'27.57E	Erven
10	KURLAND	117	0	33°56'52.07S	23°29'29.79E	Erven
11	KURLAND	363	0	33°56'52.3S	23°29'21.7E	Erven
12	KURLAND	365	0	33°56'52.27S	23°29'22.59E	Erven
13	KURLAND	375	0	33°56'52.02S	23°29'28.36E	Erven
14	KURLAND	368	0	33°56'52.23S	23°29'23.94E	Erven
15	LOT SOLWAY	240	0	33°56'38.43S	23°29'44.35E	Farm
16		288	0	33°56'48.06S	23°28'34.31E	Farm
17	LOT SOLWAY	240	0	33°56'31.84S	23°29'39.83E	Farm Portion
18		288	0	33°57'3.02S	23°29'3.34E	Farm Portion
19		288	0	33°56'58.37S	23°28'57.73E	Farm Portion
20	LOT SOLWAY	240	0	33°56'32.96S	23°29'39.22E	Farm Portion
21	KURLAND	2	0	33°56'52.23S	23°29'25.1E	Public Place

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

Wind and Solar developments with an approved Environmental Authorisation or applications under consideration within 30 km of the proposed area

No nearby wind or solar developments found.

Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

Environmental screening results and assessment outcomes

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

Utilities Infrastructure | Pipelines | Water | Fresh_Storm Water.

Relevant development incentives, restrictions, exclusions or prohibitions

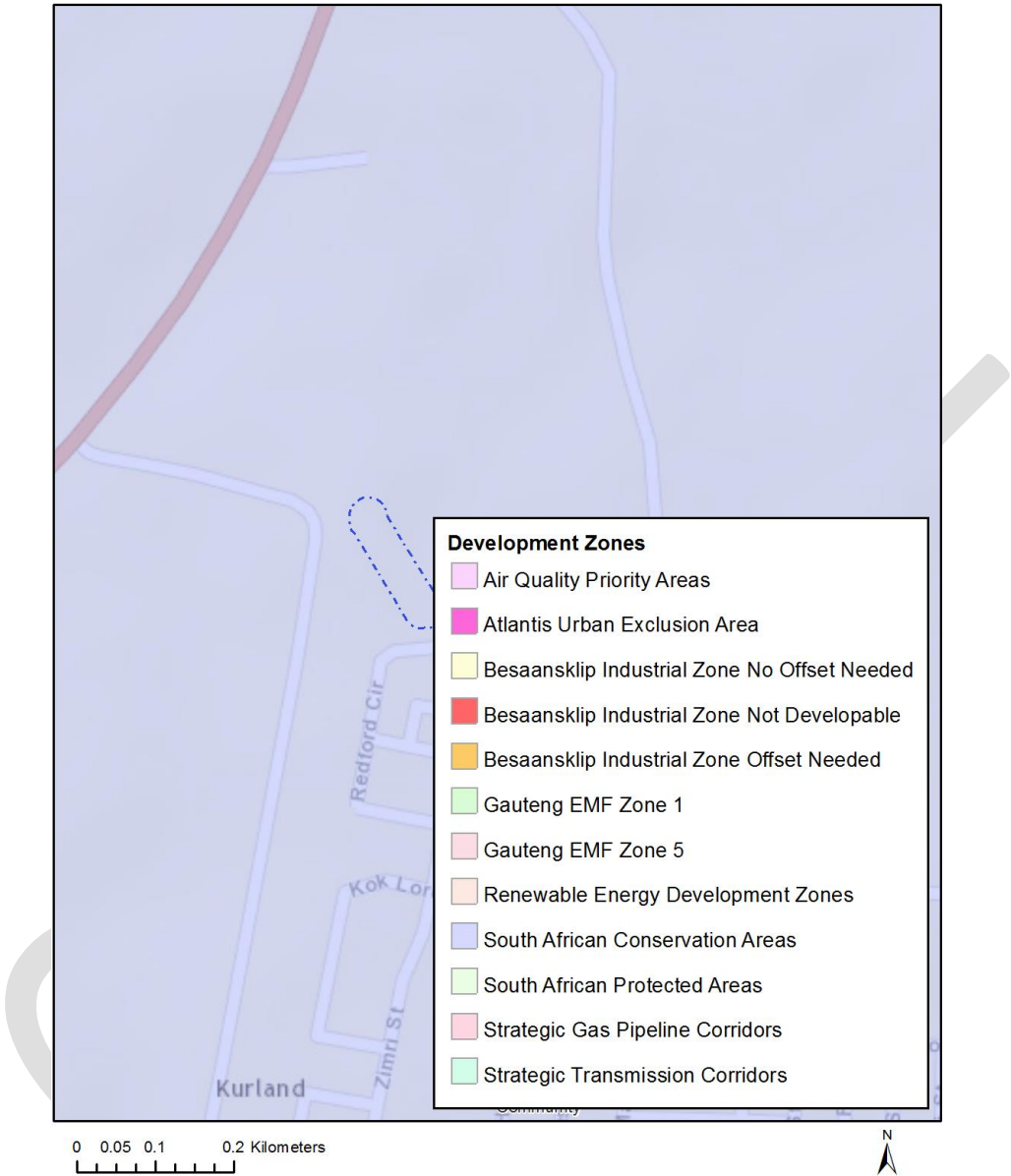
The following development incentives, restrictions, exclusions or prohibitions and their implications that apply to this site are indicated below.

Incentive, restriction or prohibition	Implication
South African Conservation Areas	https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/SACAD_OR_2022_Q2_Metadata.pdf

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.

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

Project Location: PROPOSED UPGRADES TO THE BULK WATER INFRASTRUCTURE, KURLAND, BITOU LOCAL MUNICIPALITY.



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 environmental sensitivities of the proposed development footprint, the following list of specialist assessments have been identified for inclusion in the assessment report. It is the responsibility of the EAP to confirm this list and to motivate in the assessment report, the reason for not including any of the identified specialist study including the provision of photographic evidence of the site situation.

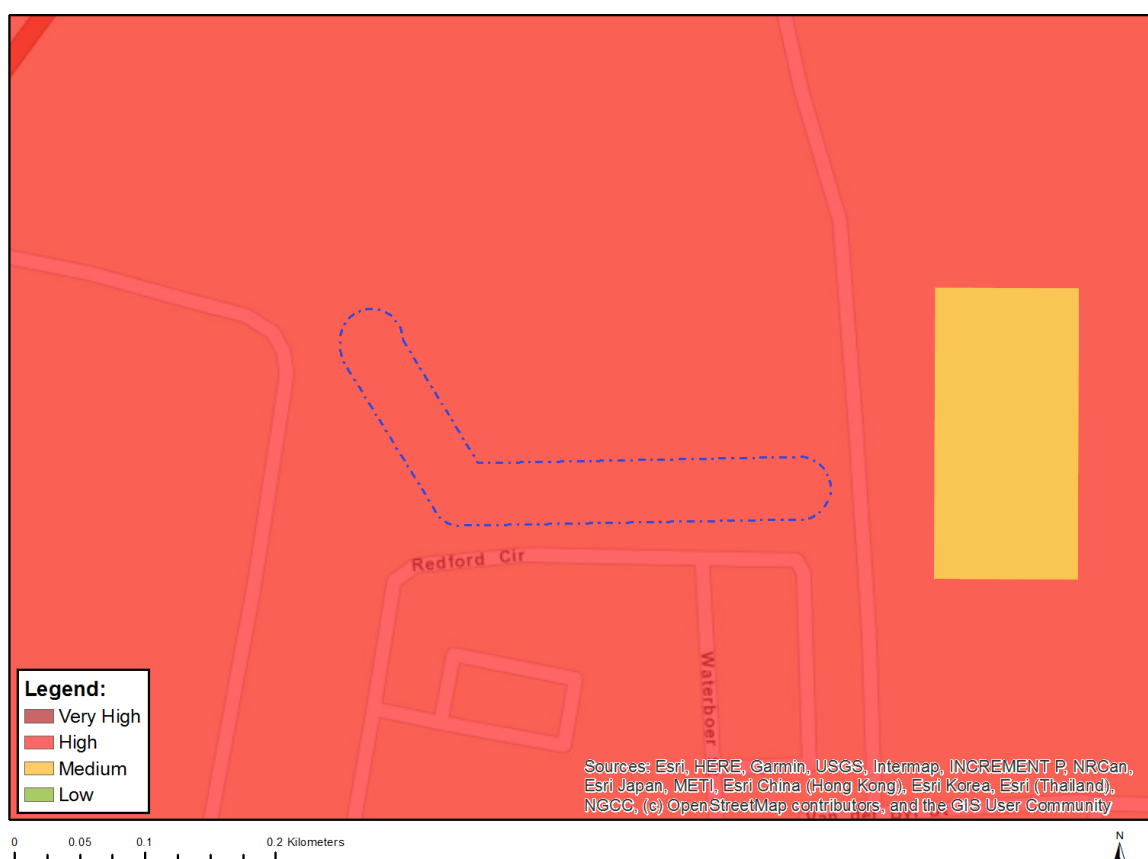
N o	Specialist assessment	Assessment Protocol
1	Agricultural Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Agriculture_Assessment_Protocols.pdf
2	Archaeological and Cultural Heritage Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
3	Paleontology Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
4	Terrestrial Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf
5	Aquatic Biodiversity Impact Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf

6	Geotechnical Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
7	Socio-Economic Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf
8	Plant Species Assessment	https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf
9	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

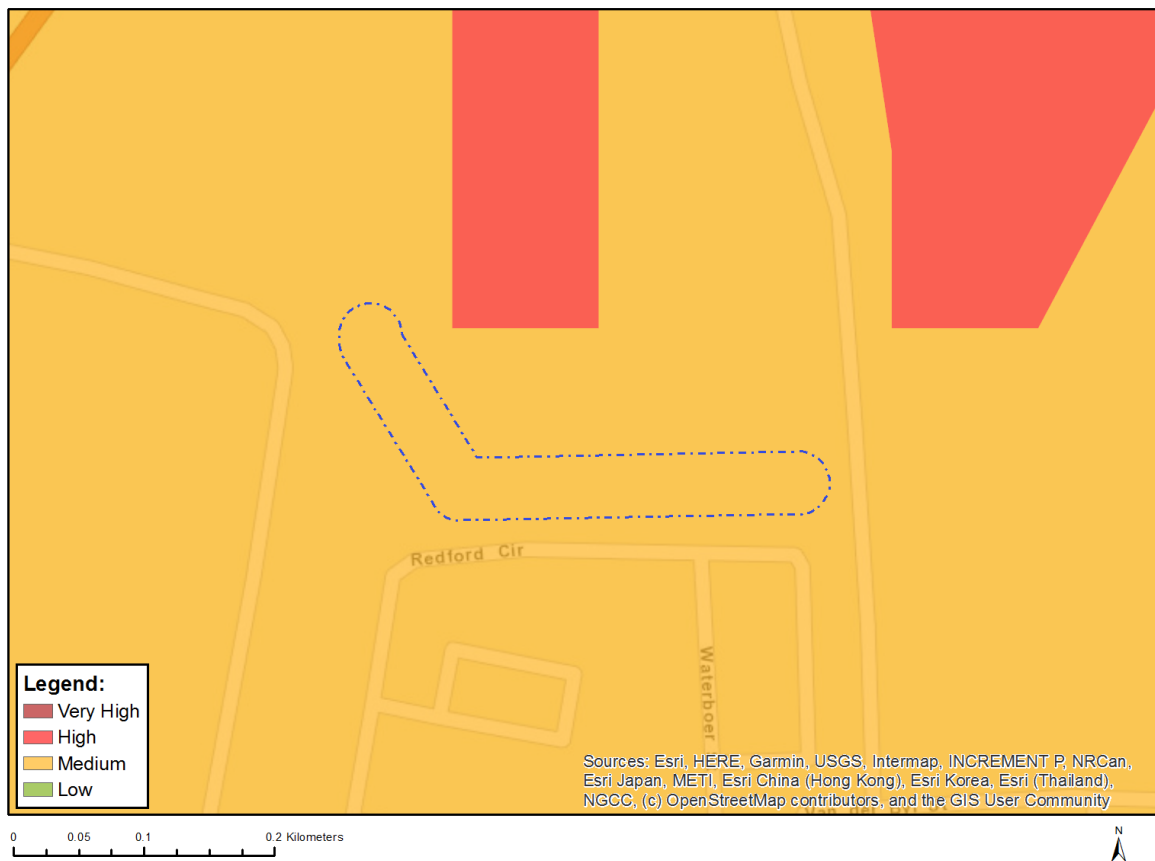


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

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

MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



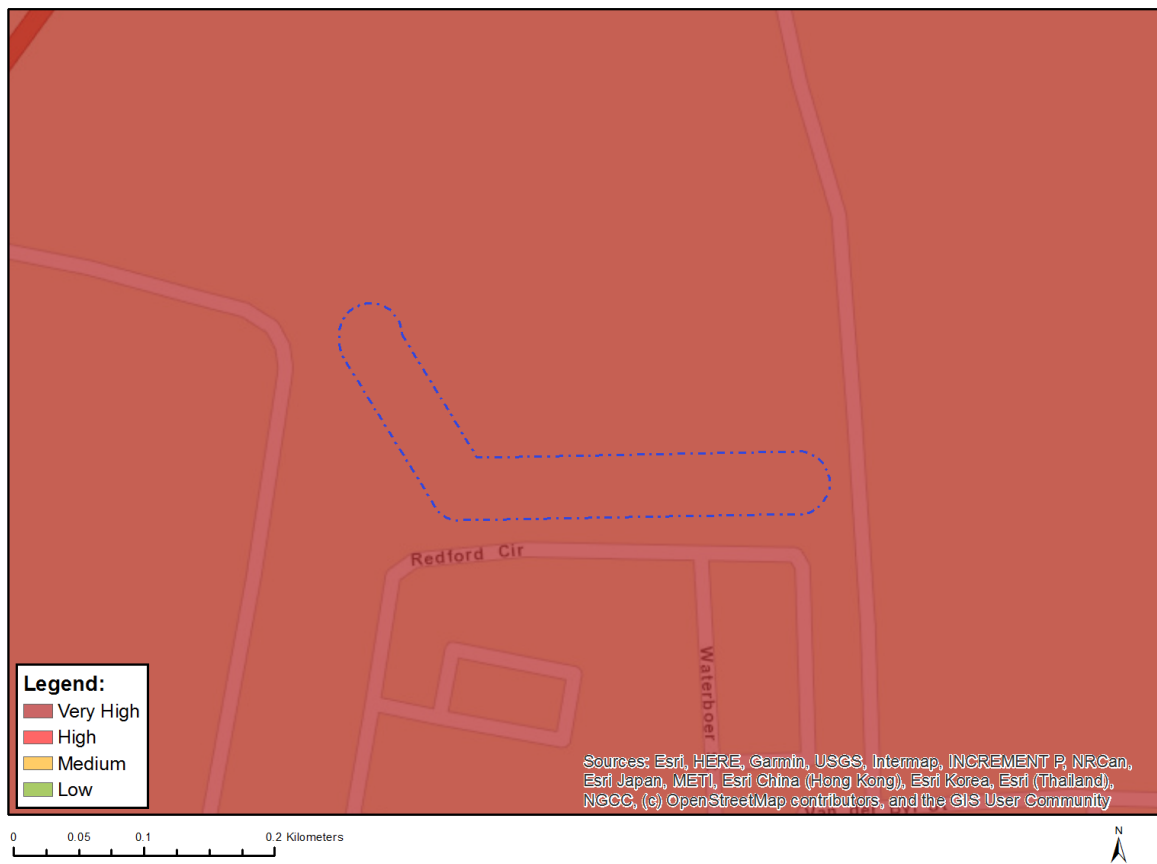
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at eiadatarequests@sanbi.org.za listing all sensitive species with their 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)
Medium	Amphibia-Afrixalus knysnae
Medium	Insecta-Tsitana dicksoni
Medium	Mammalia-Chlorotalpa duthieae
Medium	Sensitive species 8
Medium	Invertebrate-Sarophorus punctatus
Medium	Invertebrate-Aneuryphymus montanus

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

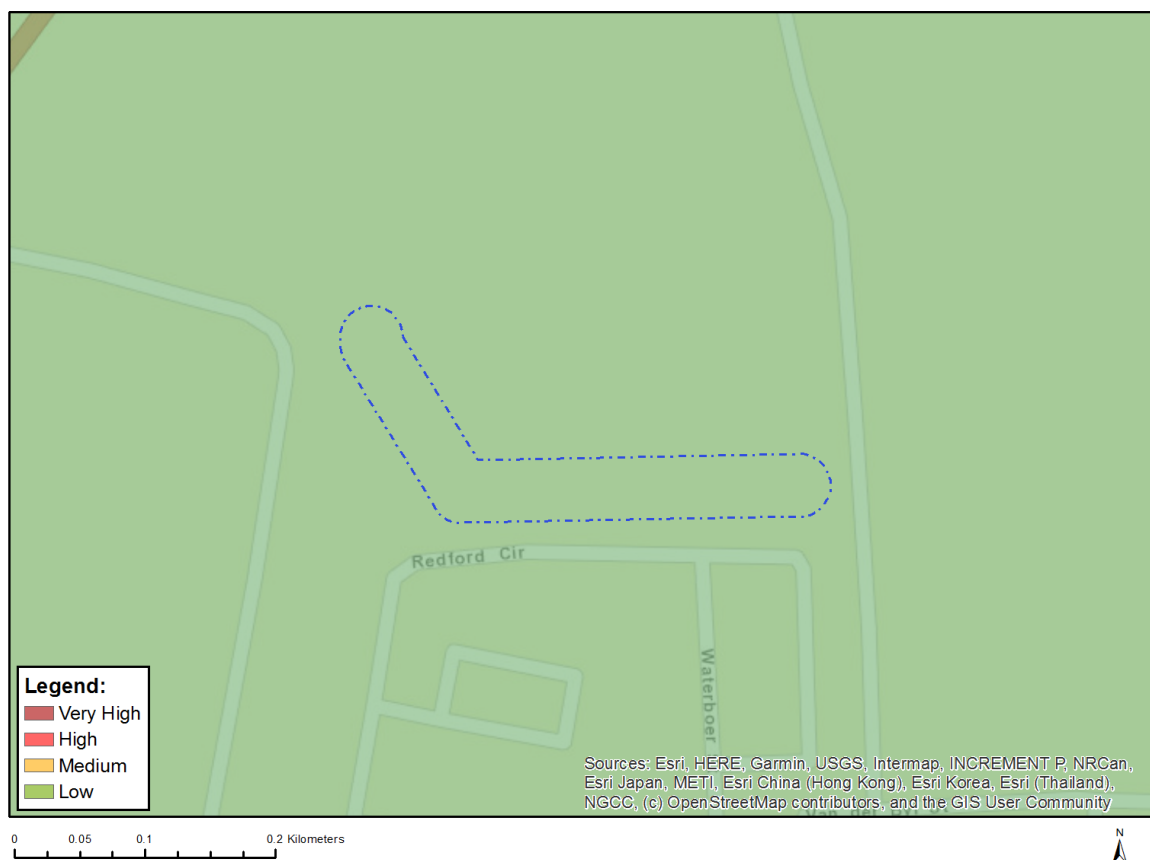


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Strategic water source area
Very High	Freshwater ecosystem priority area quinary catchments

MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

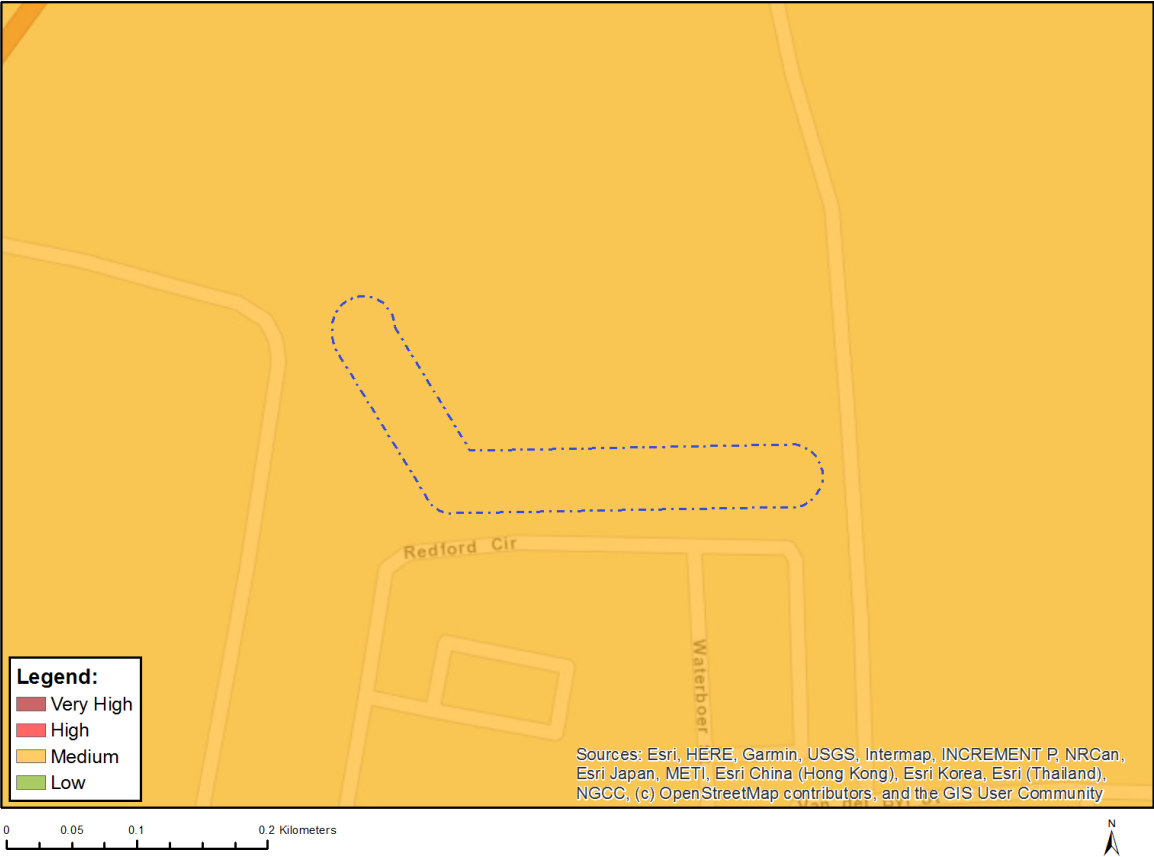


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low sensitivity

MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

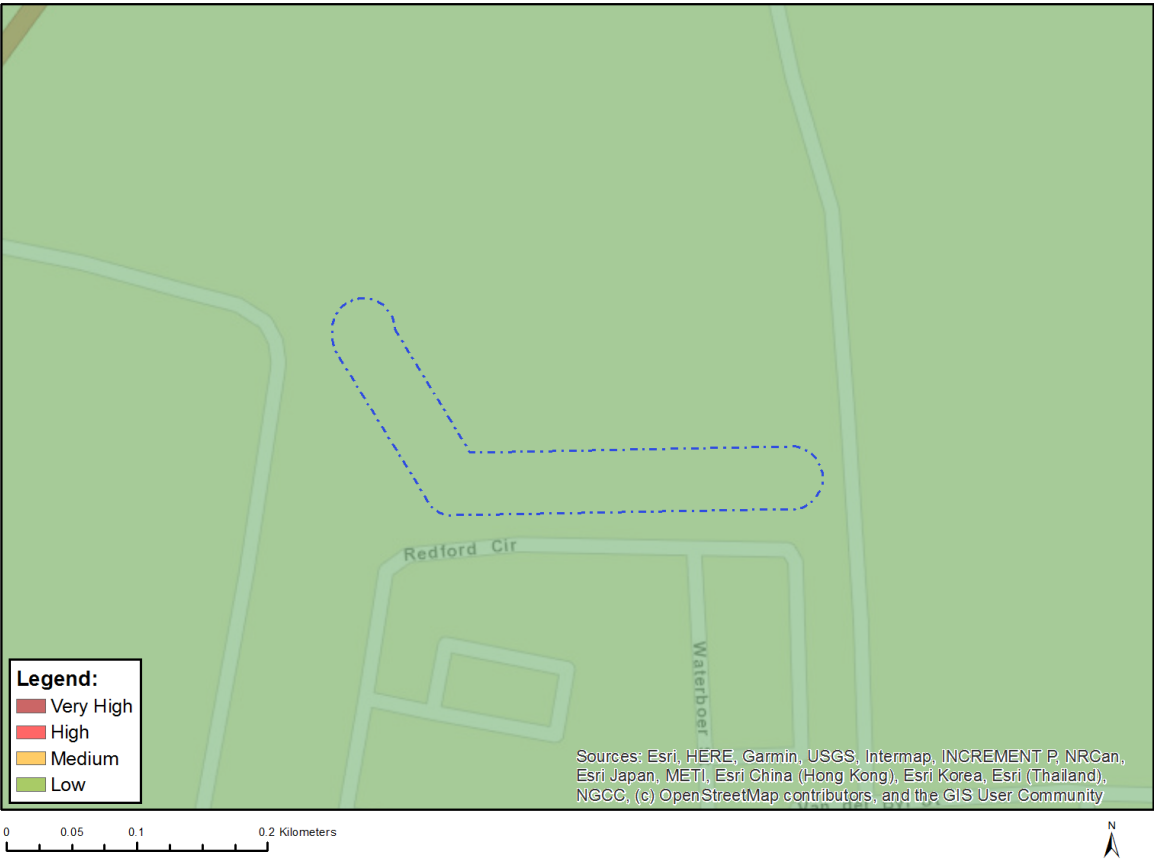


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

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

MAP OF RELATIVE DEFENCE THEME SENSITIVITY

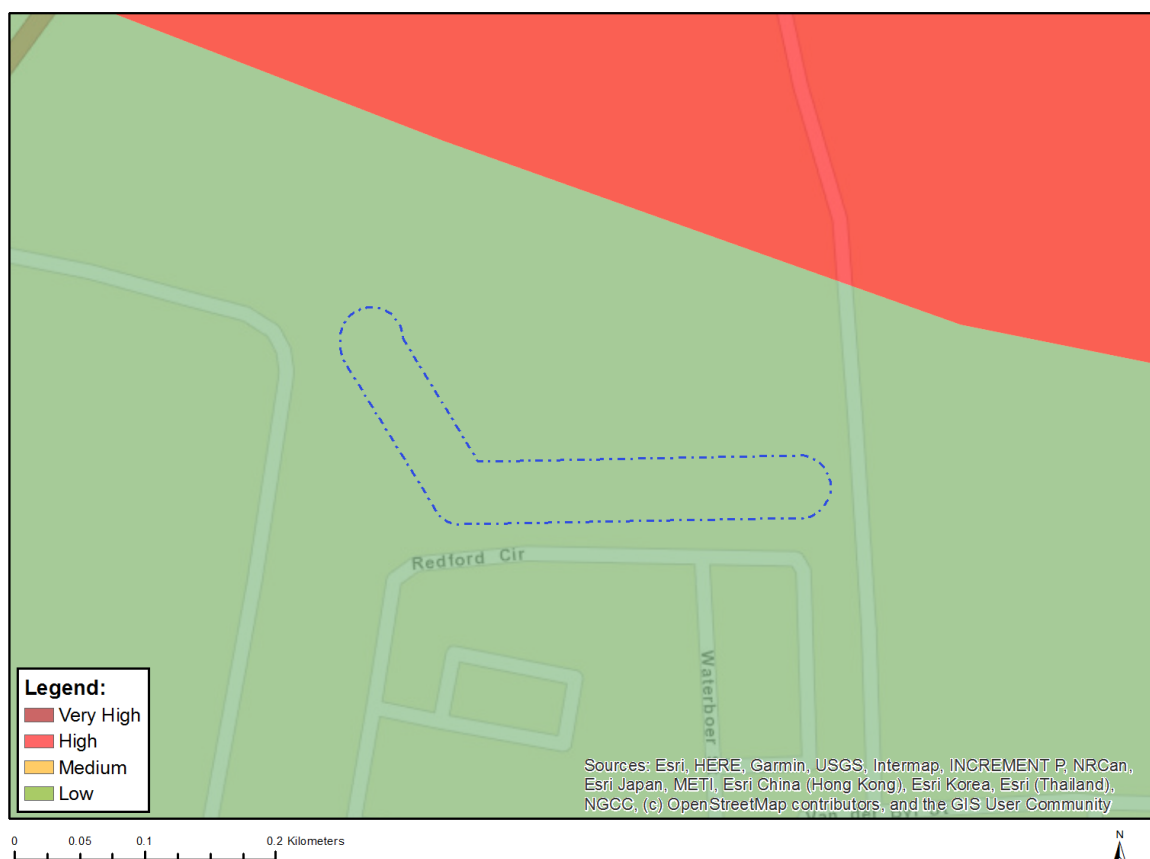


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity

MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

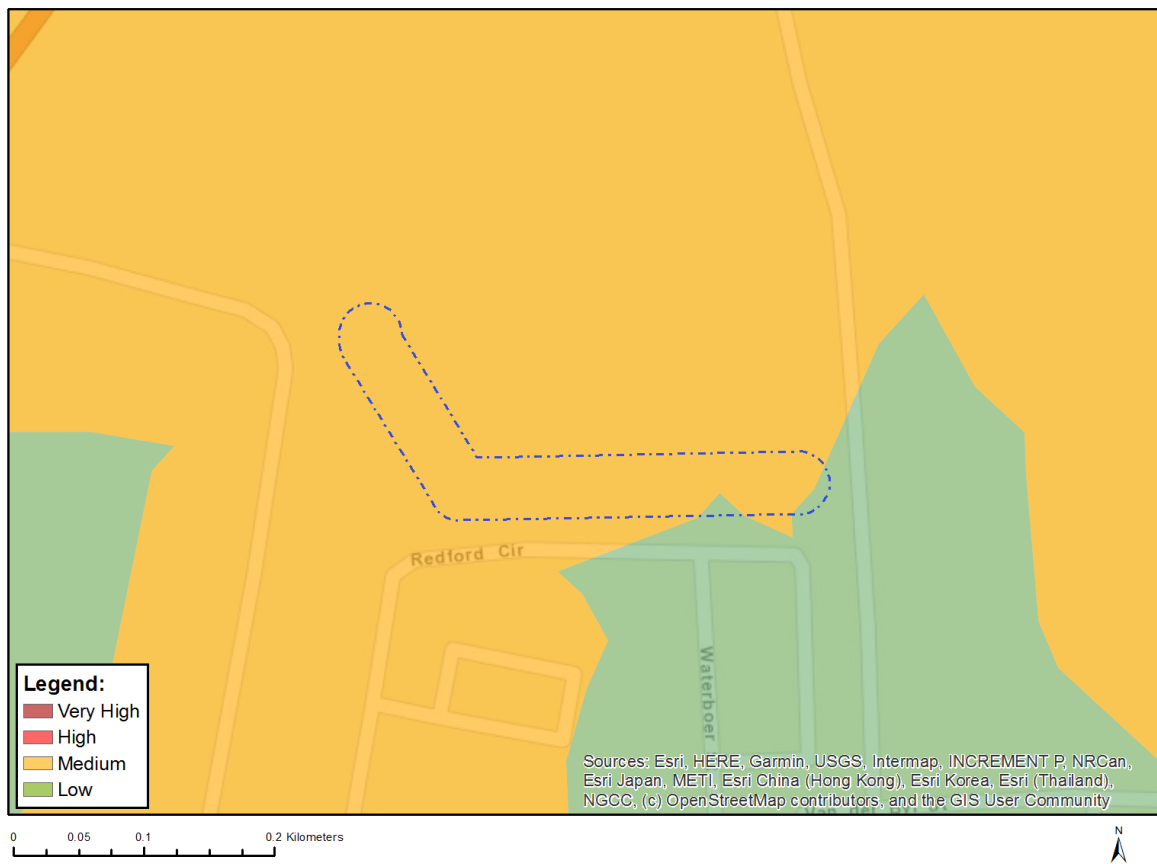


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Features with a Low 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.

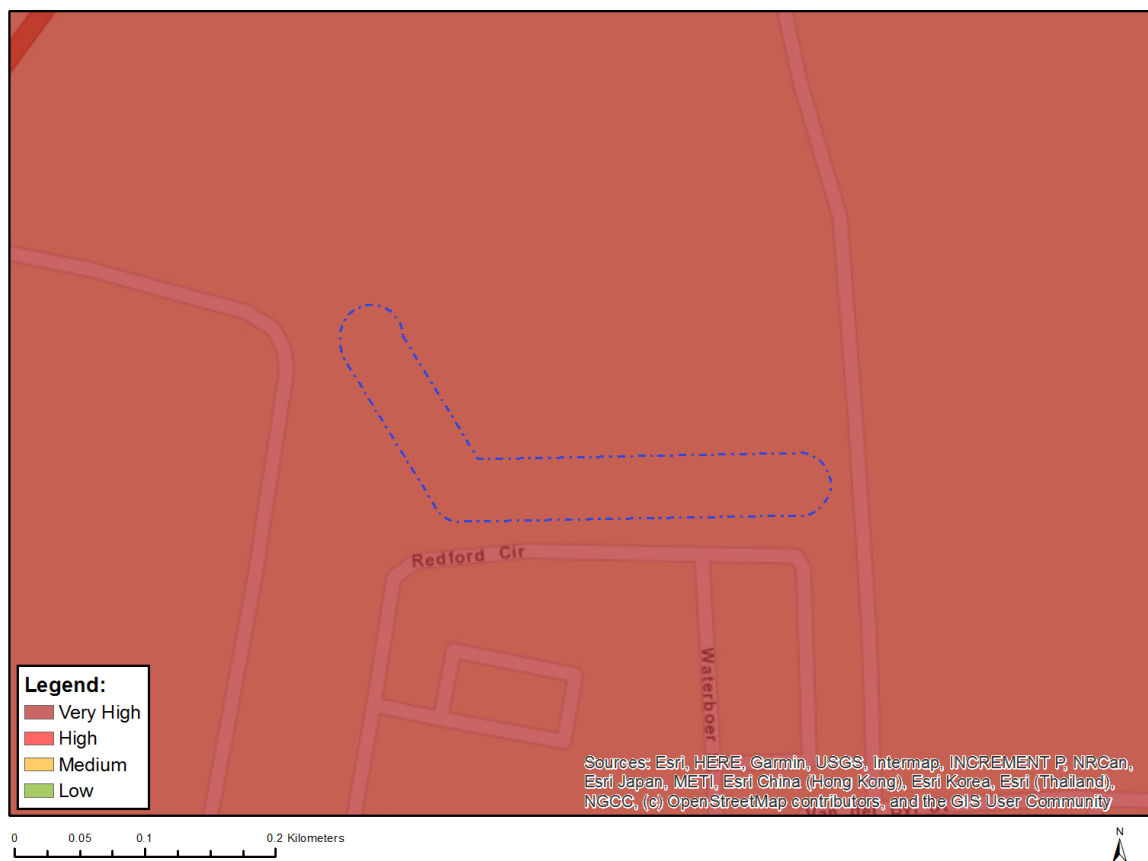
Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity
Medium	Ruschia duthiae
Medium	Indigofera hispida
Medium	Aspalathus bowieana
Medium	Leucospermum glabrum
Medium	Mimetes pauciflorus
Medium	Selago rotundifolia
Medium	Sensitive species 419
Medium	Erica stylaris
Medium	Erica glandulosa subsp. fourcadei
Medium	Centella longifolia
Medium	Marsilea schelpeana
Medium	Felicia westae

Medium	Osteospermum pterigoideum
Medium	Sensitive species 53
Medium	Sensitive species 654
Medium	Acrolophia lunata
Medium	Pterygodium cleistogamum

MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

Sensitivity Features:

Sensitivity	Feature(s)
Very High	Ecological support area 1
Very High	FEPA Subcatchments
Very High	Protected Areas Expansion Strategy: Sanparks
Very High	Strategic Water Source Areas