

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

**EIA Reference number:**

**Project name:** Transalloys Solar PV Facility

**Project title:** Transalloys Solar PV Facility

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**Applicant:** Transalloys (Pty) Ltd

**Compiler:** Savannah Environmental

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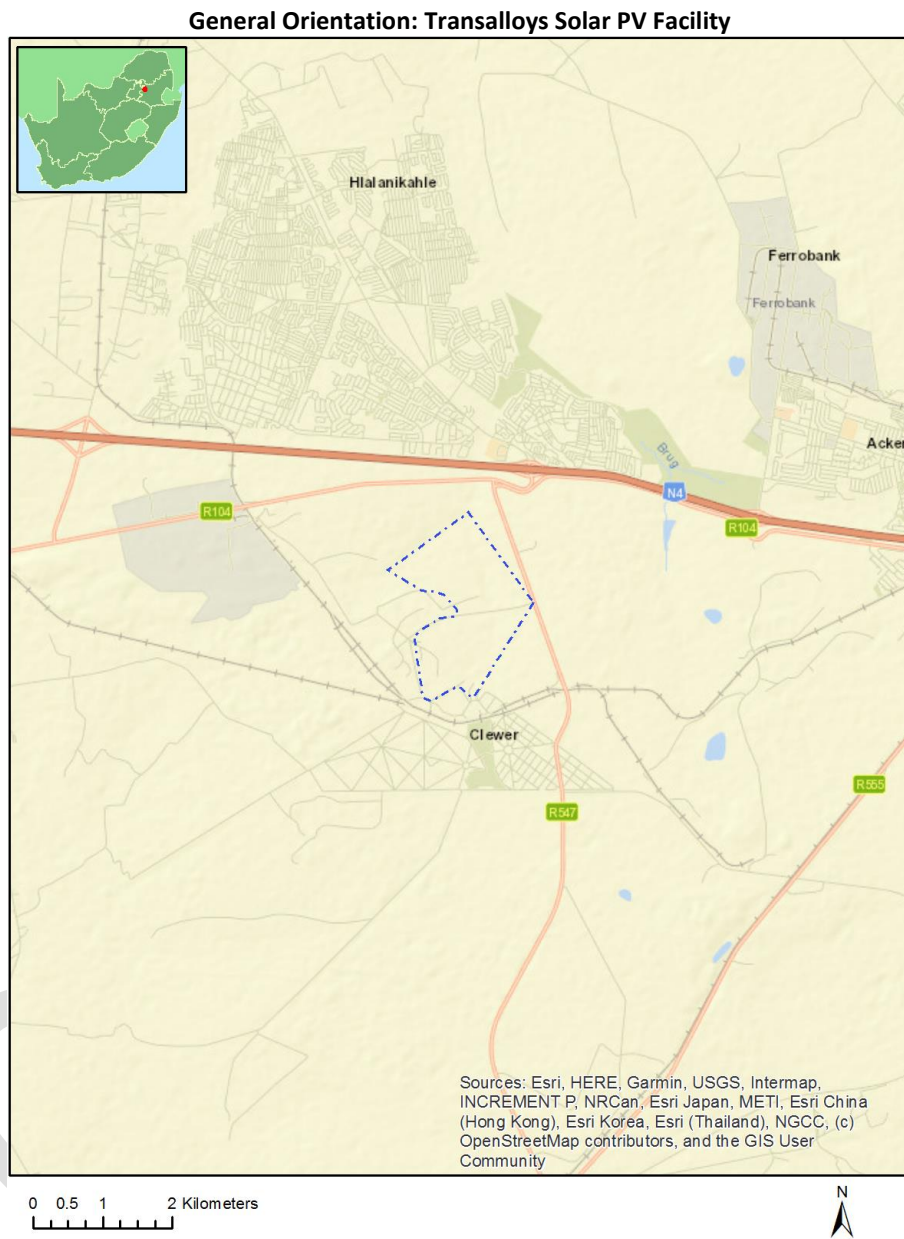
**Application Category:** Utilities Infrastructure|Electricity|Generation|Renewable|Solar|PV

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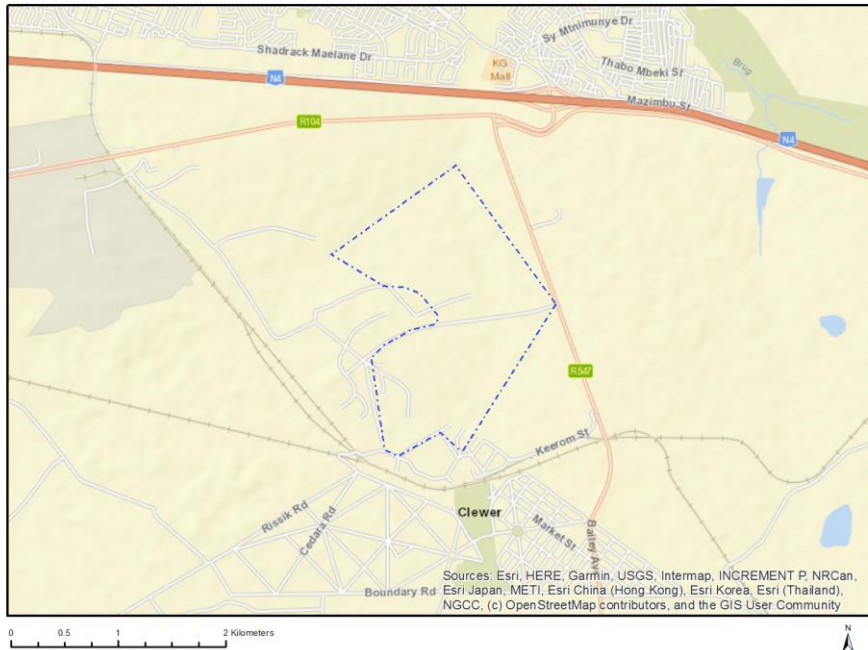
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# Proposed Project Location

## 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  | MIDDELBURG    | 2404         | 0       | 25°46'59.13S | 29°26'1.9E   | Erven         |
| 2  | MOLOTO        | 6066         | 0       | 25°28'54.84S | 28°39'14.73E | Erven         |
| 3  | DIE HEUWEL    | 890          | 0       | 25°51'38.67S | 29°14'30.8E  | Erven         |
| 4  | MIDDELBURG    | 2406         | 0       | 25°46'58.3S  | 29°26'4.05E  | Erven         |
| 5  | DIE HEUWEL    | 891          | 0       | 25°51'39.42S | 29°14'31.88E | Erven         |
| 6  | MIDDELBURG    | 2403         | 0       | 25°46'13.83S | 29°26'37.25E | Erven         |
| 7  | MIDDELBURG    | 2405         | 0       | 25°46'58.73S | 29°26'2.98E  | Erven         |
| 8  | MIDDELBURG    | 2398         | 0       | 25°46'10.27S | 29°26'41.39E | Erven         |
| 9  | DIE HEUWEL    | 892          | 0       | 25°51'40.32S | 29°14'31.59E | Erven         |
| 10 | ELANDSFONTEIN | 309          | 0       | 25°54'59.19S | 29°6'4.51E   | Farm          |
| 11 | SCHOONGEZICHT | 308          | 0       | 25°52'41.78S | 29°8'37.96E  | Farm          |
| 12 | SCHOONGEZICHT | 308          | 24      | 25°53'27.64S | 29°7'17.79E  | Farm Portion  |
| 13 | ELANDSFONTEIN | 309          | 23      | 25°53'46.4S  | 29°7'6.26E   | Farm Portion  |
| 14 | ELANDSFONTEIN | 309          | 1       | 25°54'38.44S | 29°5'59.5E   | Farm Portion  |
| 15 | ELANDSFONTEIN | 309          | 35      | 25°53'35.66S | 29°7'5.46E   | Farm Portion  |
| 16 | ELANDSFONTEIN | 309          | 2       | 25°55'17.84S | 29°6'54.71E  | Farm Portion  |
| 17 | SCHOONGEZICHT | 308          | 20      | 25°53'13.32S | 29°7'38.39E  | Farm Portion  |
| 18 | ELANDSFONTEIN | 309          | 11      | 25°54'3.61S  | 29°7'44.76E  | Farm Portion  |
| 19 | ELANDSFONTEIN | 309          | 34      | 25°53'51.94S | 29°7'9.93E   | Farm Portion  |
| 20 | SCHOONGEZICHT | 308          | 28      | 25°52'39.84S | 29°7'17.16E  | Farm Portion  |
| 21 | ELANDSFONTEIN | 309          | 12      | 25°54'4.97S  | 29°7'30.03E  | Farm Portion  |
| 22 | SCHOONGEZICHT | 308          | 38      | 25°52'50.57S | 29°7'49.6E   | Farm Portion  |
| 23 | ELANDSFONTEIN | 309          | 34      | 25°53'37.5S  | 29°6'56.44E  | Farm Portion  |
| 24 | CLEWER AH     | 2            | 0       | 25°53'56.33S | 29°7'30.73E  | Agri Holding  |
| 25 | CLEWER AH     | 3            | 0       | 25°53'58.08S | 29°7'27.6E   | Agri Holding  |
| 26 | CLEWER AH     | 6            | 0       | 25°53'59.53S | 29°7'33.17E  | Agri Holding  |
| 27 | CLEWER AH     | 1            | 0       | 25°53'54.42S | 29°7'34.3E   | Agri Holding  |

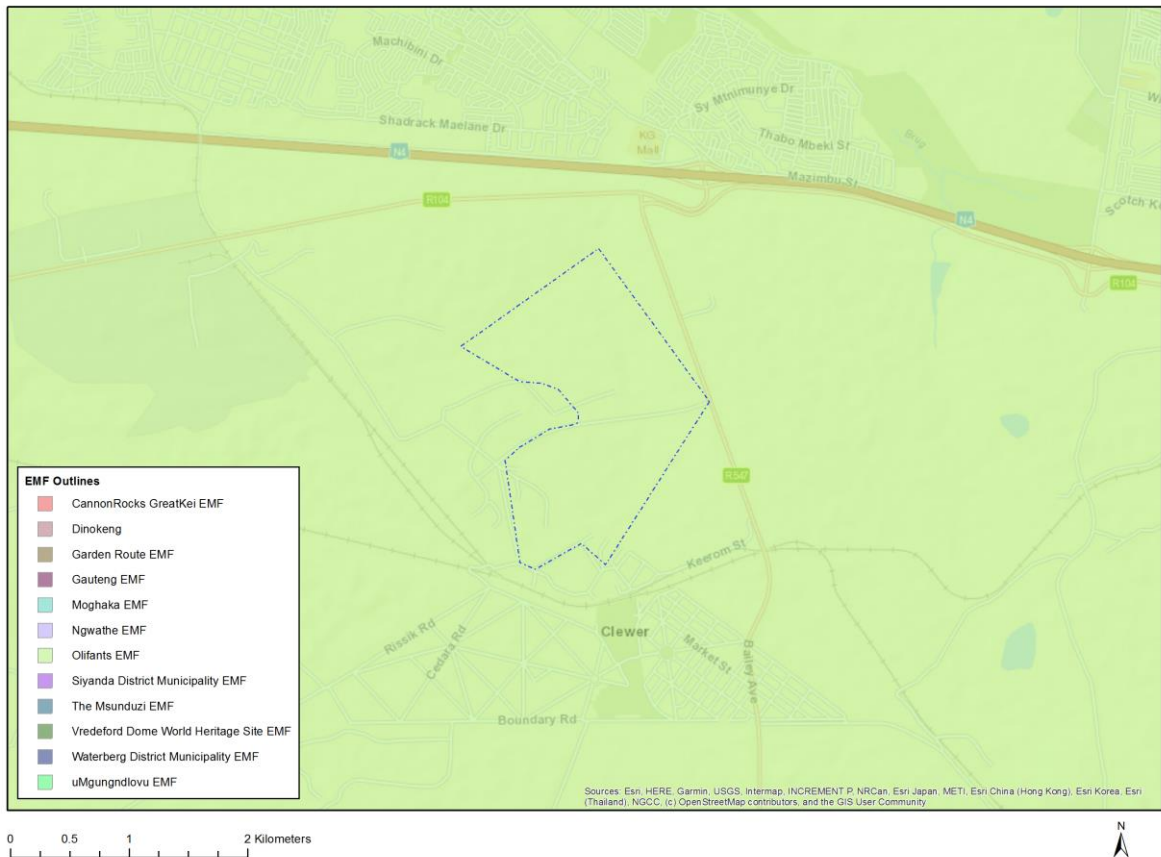
|    |           |   |   |              |             |              |
|----|-----------|---|---|--------------|-------------|--------------|
| 28 | CLEWER AH | 5 | 0 | 25°54'1.83S  | 29°7'20.65E | Agri Holding |
| 29 | CLEWER AH | 4 | 0 | 25°53'59.79S | 29°7'24.54E | Agri Holding |

Development footprint<sup>1</sup> vertices:  
 No development footprint(s) specified.

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

| No | EIA Reference No   | Classification | Status of application | Distance from proposed area (km) |
|----|--------------------|----------------|-----------------------|----------------------------------|
| 1  | 14/12/16/3/3/2/759 | Solar PV       | Approved              | 21.5                             |

### Environmental Management Frameworks relevant to the application



|                              |             |
|------------------------------|-------------|
| <b>Environmental Managem</b> | <b>LINK</b> |
|------------------------------|-------------|

<sup>1</sup> “development footprint”, means the area within the site on which the development will take place and includes all ancillary developments for example roads, power lines, boundary walls, paving etc. which require vegetation clearance or which will be disturbed and for which the application has been submitted.

|                      |  |
|----------------------|--|
| <b>ent Framework</b> |  |
| Olifants EMF         | <a href="https://screening.environment.gov.za/ScreeningDownloads/EMF/Zone_46,67,78,80,92,103,122,129.pdf">https://screening.environment.gov.za/ScreeningDownloads/EMF/Zone 46, 67, 78, 80, 92, 103, 122, 129.pdf</a> |

## Environmental screening results and assessment outcomes

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

**Utilities Infrastructure | Electricity | Generation | Renewable | Solar | PV.**

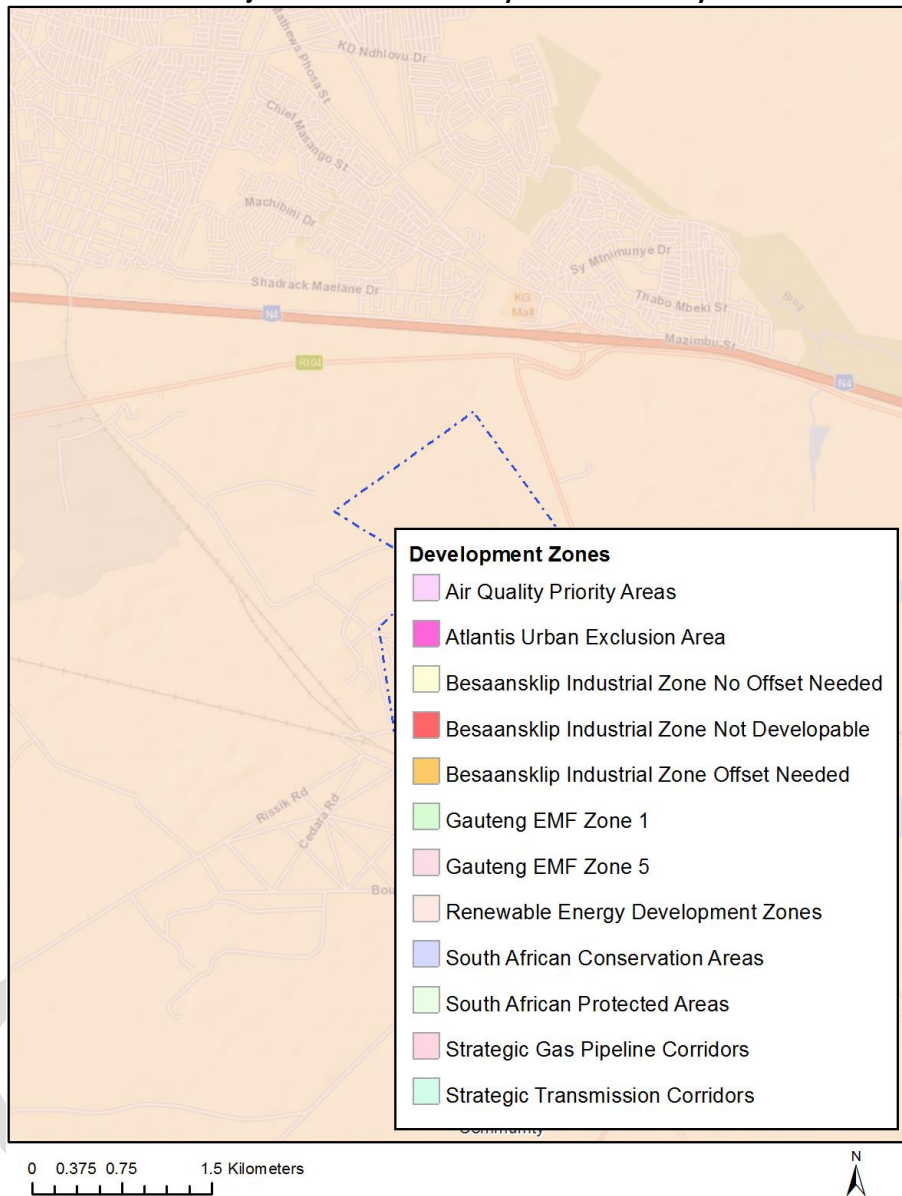
### Relevant development incentives, restrictions, exclusions or prohibitions

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

| <b>Incentive, restriction or prohibition</b>           | <b>Implication</b>  |
|--|---|
| Strategic Transmission Corridor-International corridor | <a href="https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combinated_EGI.pdf">https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combinated_EGI.pdf</a>                           |
| Air Quality-Highveld Priority Area                     | <a href="https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/HIGHVELD_PRIORITY_AREA_AQMP.pdf">https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/HIGHVELD_PRIORITY_AREA_AQMP.pdf</a> |
| Renewable energy development zones 9-Emalahle ni       | <a href="https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combinated_REDZ.pdf">https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/Combinated_REDZ.pdf</a>                         |

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

**Project Location: Transalloys Solar PV Facility**



**Proposed Development Area Environmental Sensitivity**

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

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

|  |   |  |   |   |
|--|---|--|---|---|
| Aquatic Biodiversity Theme                 | X |  |   |   |
| Archaeological and Cultural Heritage Theme | X |  |   |   |
| Avian Theme                                |   |  |   | X |
| Civil Aviation (Solar PV) Theme            |   |  |   | X |
| Defence Theme                              |   |  |   | X |
| Landscape (Solar) Theme                    | X |  |   |   |
| Paleontology Theme                         | X |  |   |   |
| Plant Species Theme                        |   |  | X |   |
| RFI 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.

| <b>N o</b> | <b>Specialist assessment</b>                           | <b>Assessment Protocol</b>  |
|------------|--|---|
| 1          | Agricultural Impact Assessment                         | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_WindAndSolar_Agriculture_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_WindAndSolar_Agriculture_Assessment_Protocols.pdf</a> |
| 2          | Landscape/Visual Impact Assessment                     | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>           |
| 3          | Archaeological and Cultural Heritage Impact Assessment | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>           |
| 4          | Palaeontology Impact Assessment                        | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>           |
| 5          | Terrestrial Biodiversity Impact Assessment             | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf</a> |
| 6          | Aquatic Biodiversity                                   | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Aquatic_Biodiversity_Assessment_Protocols.pdf</a>         |



|    |                           |   |
|----|---------------------------|---|
|    | Impact Assessment         |   |
| 7  | Civil Aviation Assessment | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Civil_Aviation_Installations_Assessment_Protocols.pdf</a> |
| 8  | Defense Assessment        | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Defence_Installations_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Defence_Installations_Assessment_Protocols.pdf</a>               |
| 9  | RFI Assessment            | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>                   |
| 10 | Geotechnical Assessment   | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>                   |
| 11 | Socio-Economic Assessment | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_General_Requirement_Assessment_Protocols.pdf</a>                   |
| 12 | Plant Species Assessment  | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Plant_Species_Assessment_Protocols.pdf</a>                               |
| 13 | Animal Species Assessment | <a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/Gazetted_Animal_Species_Assessment_Protocols.pdf</a>                             |

## 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

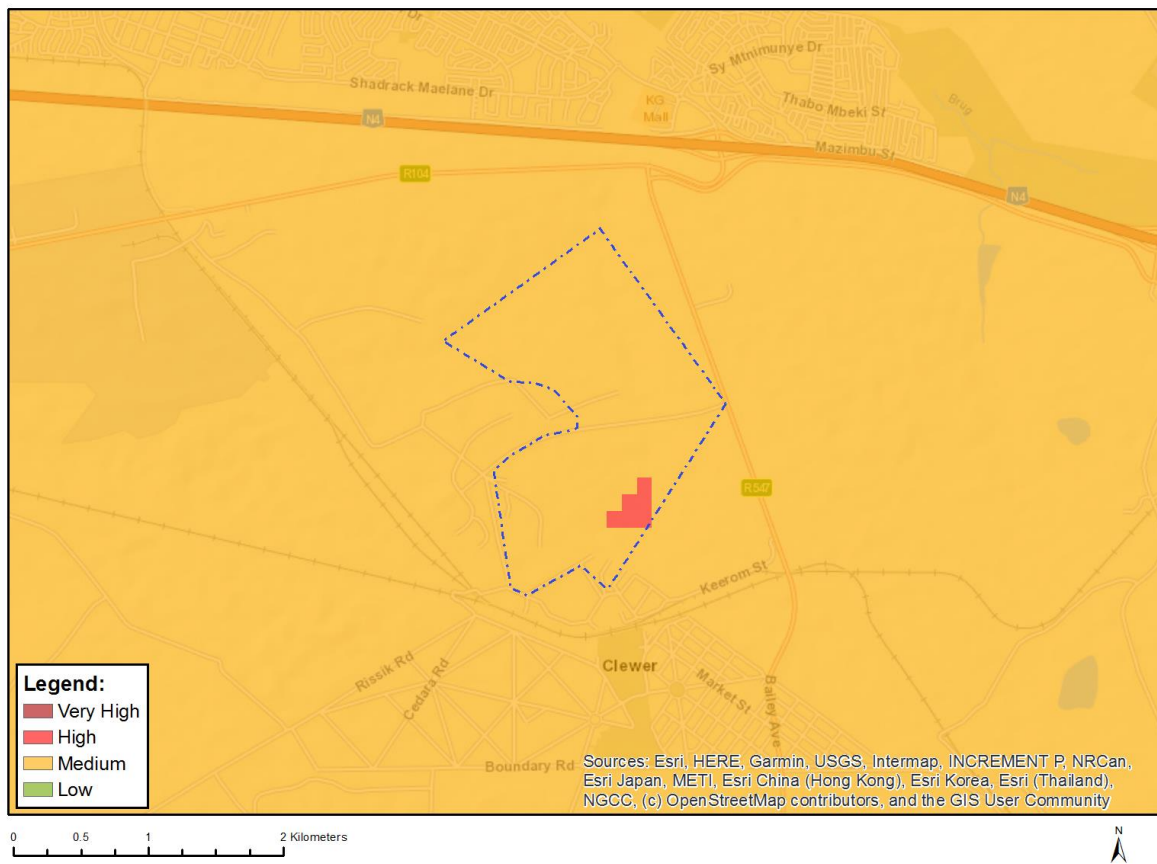
Unable to obtain map image.

| Very High sensitivity | High sensitivity | Medium sensitivity | Low sensitivity |
|-----------------------|------------------|--------------------|-----------------|
|                       | X                |                    |                 |

#### Sensitivity Features:

| Sensitivity | Feature(s)   |
|-------------|--|
| High        | Land capability;09. Moderate-High/10. Moderate-High  |
| High        | Annual Crop Cultivation / Planted Pastures Rotation;Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate |
| High        | Annual Crop Cultivation / Planted Pastures Rotation;Land capability;09. Moderate-High/10. Moderate-High            |
| 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



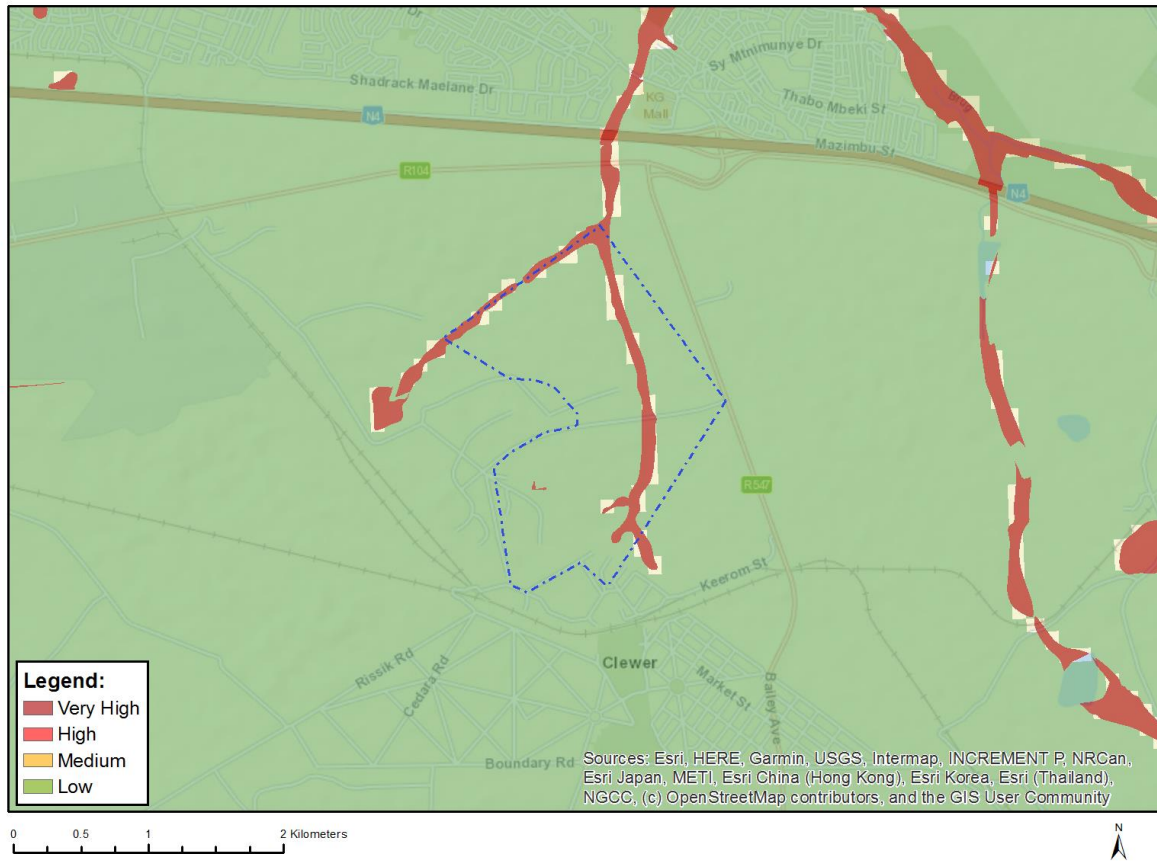
Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at [eiadatarequests@sanbi.org.za](mailto:eiadatarequests@sanbi.org.za) listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

| Very High sensitivity | High sensitivity | Medium sensitivity | Low sensitivity |
|-----------------------|------------------|--------------------|-----------------|
|                       | X                |                    |                 |

### Sensitivity Features:

| Sensitivity | Feature(s)                       |
|-------------|----------------------------------|
| High        | Aves-Sagittarius serpentarius    |
| Medium      | Aves-Eupodotis senegalensis      |
| Medium      | Mammalia-Chrysospalax villosus   |
| Medium      | Mammalia-Crocidura maquassiensis |
| Medium      | Mammalia-Dasymys robertsii       |
| Medium      | Mammalia-Hydrictis maculicollis  |
| Medium      | Mammalia-Ourebia ourebi ourebi   |

## MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

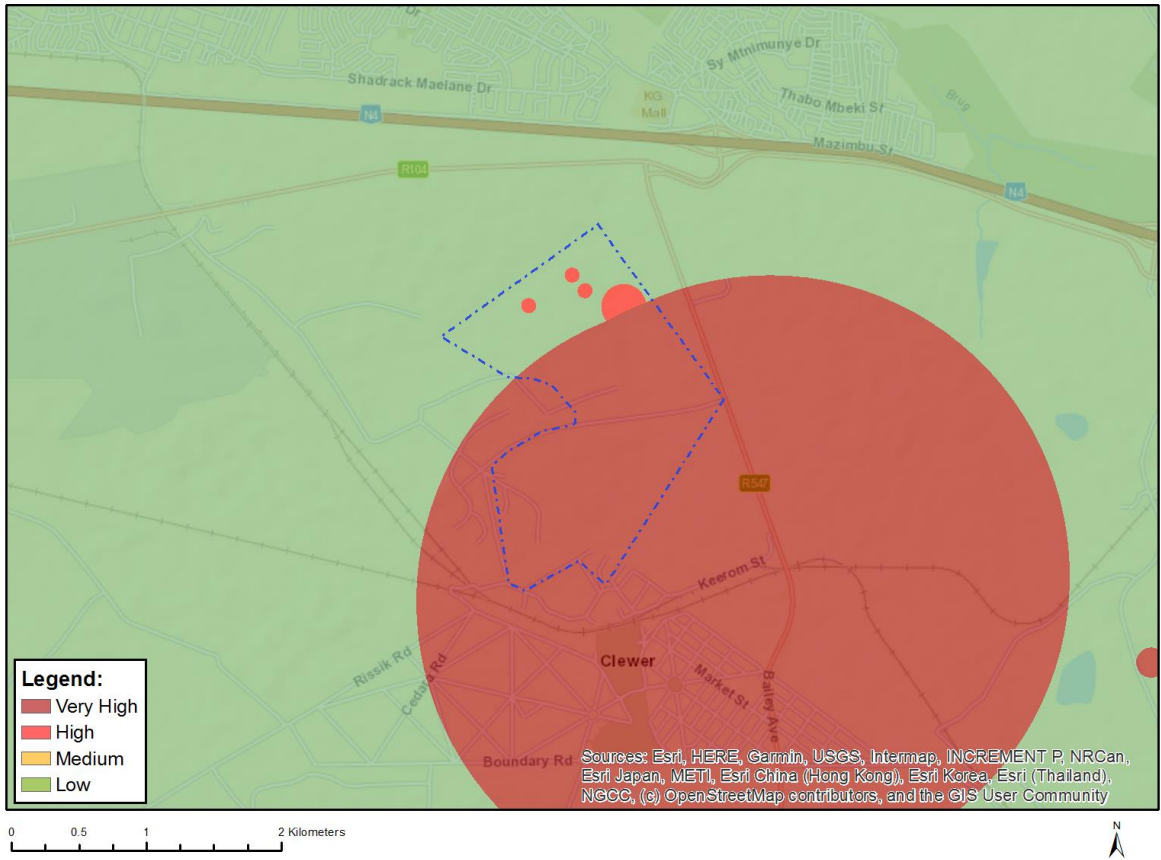


| Very High sensitivity | High sensitivity | Medium sensitivity | Low sensitivity |
|-----------------------|------------------|--------------------|-----------------|
| X                     |                  |                    |                 |

### Sensitivity Features:

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

# MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

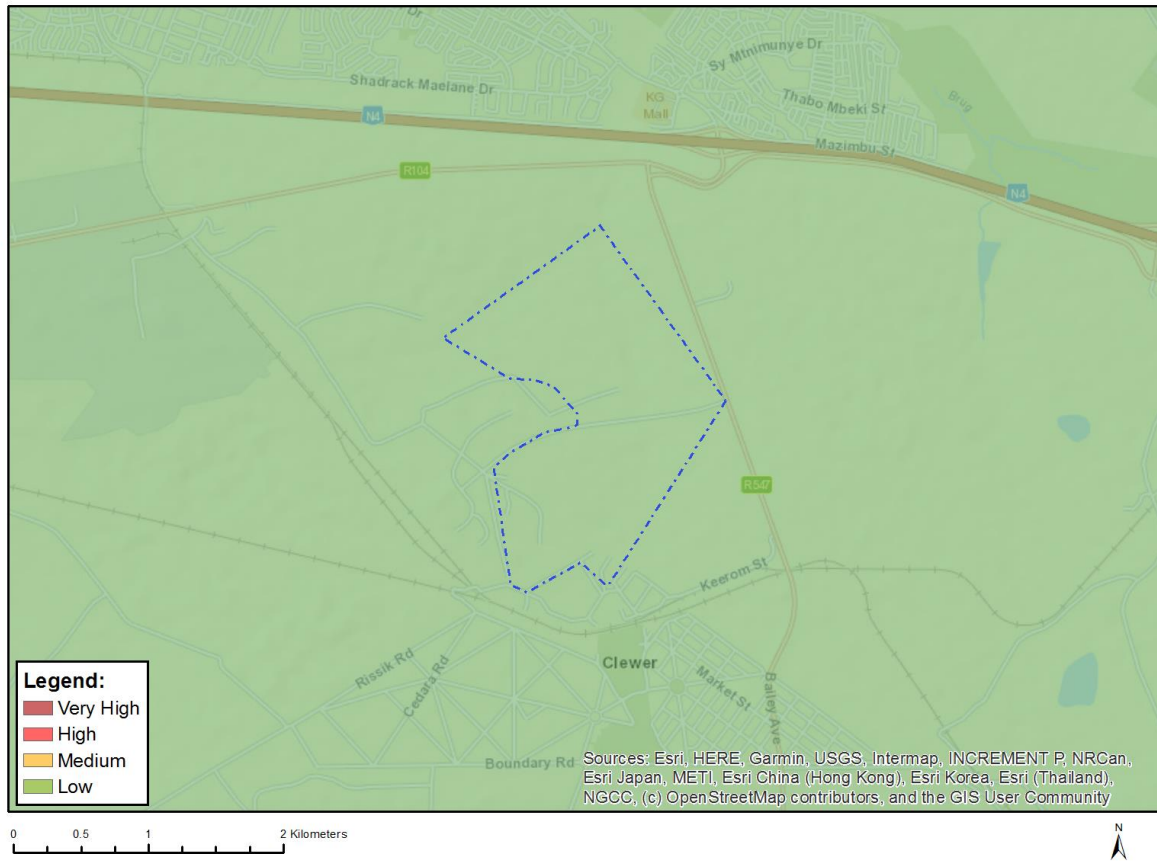


| Very High sensitivity | High sensitivity | Medium sensitivity | Low sensitivity |
|-----------------------|------------------|--------------------|-----------------|
| X                     |                  |                    |                 |

## Sensitivity Features:

| Sensitivity | Feature(s)                                |
|-------------|---|
| High        | Within 150m of a Grade IIIa Heritage site |
| High        | Within 100m of a Grade IIIb Heritage site |
| High        | Within 50m of a Grade IIIc Heritage site  |
| Low         | Low sensitivity                           |
| Very High   | Within 2km of a Grade II Heritage site    |
| Very High   | Within 100m of an Ungraded Heritage site  |

## MAP OF RELATIVE AVIAN THEME SENSITIVITY

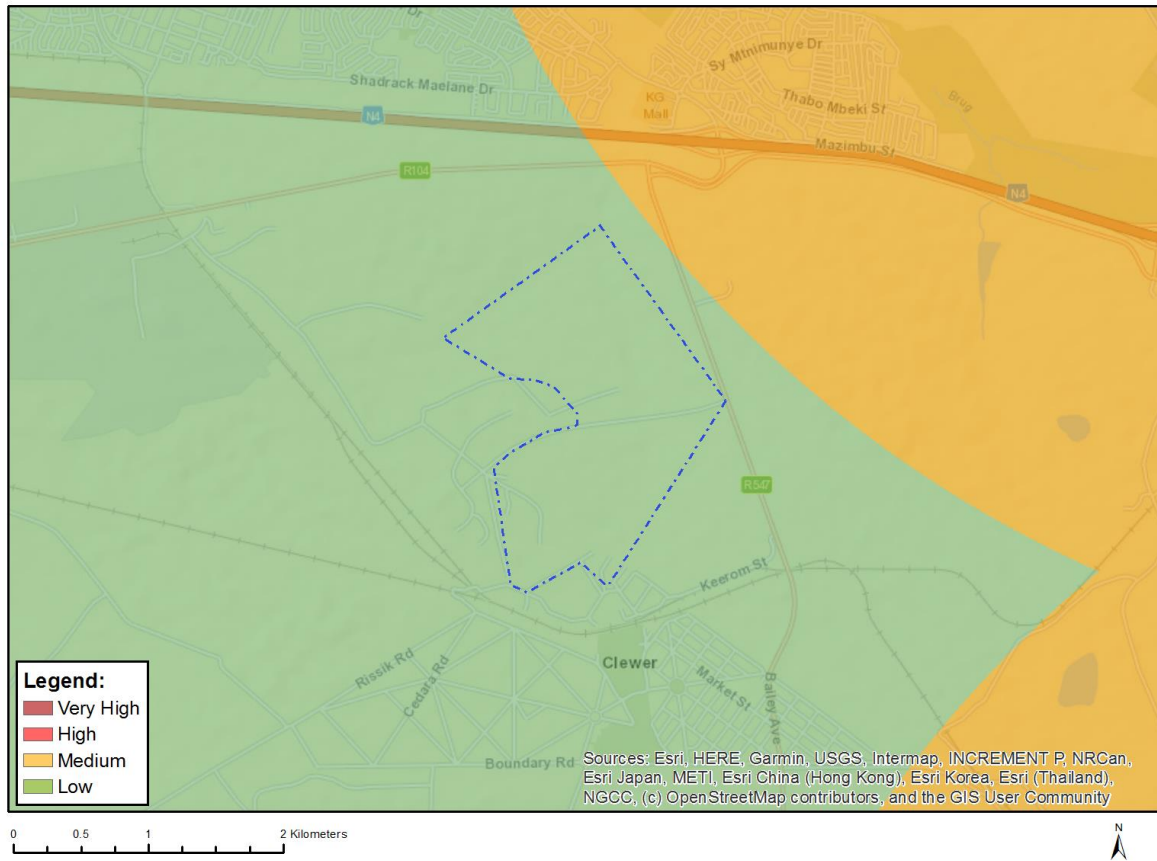


| Very High sensitivity | High sensitivity | Medium sensitivity | Low sensitivity |
|-----------------------|------------------|--------------------|-----------------|
|                       |                  |                    | X               |

### Sensitivity Features:

| Sensitivity | Feature(s)      |
|-------------|-----------------|
| Low         | Low Sensitivity |

## MAP OF RELATIVE CIVIL AVIATION (SOLAR PV) THEME SENSITIVITY

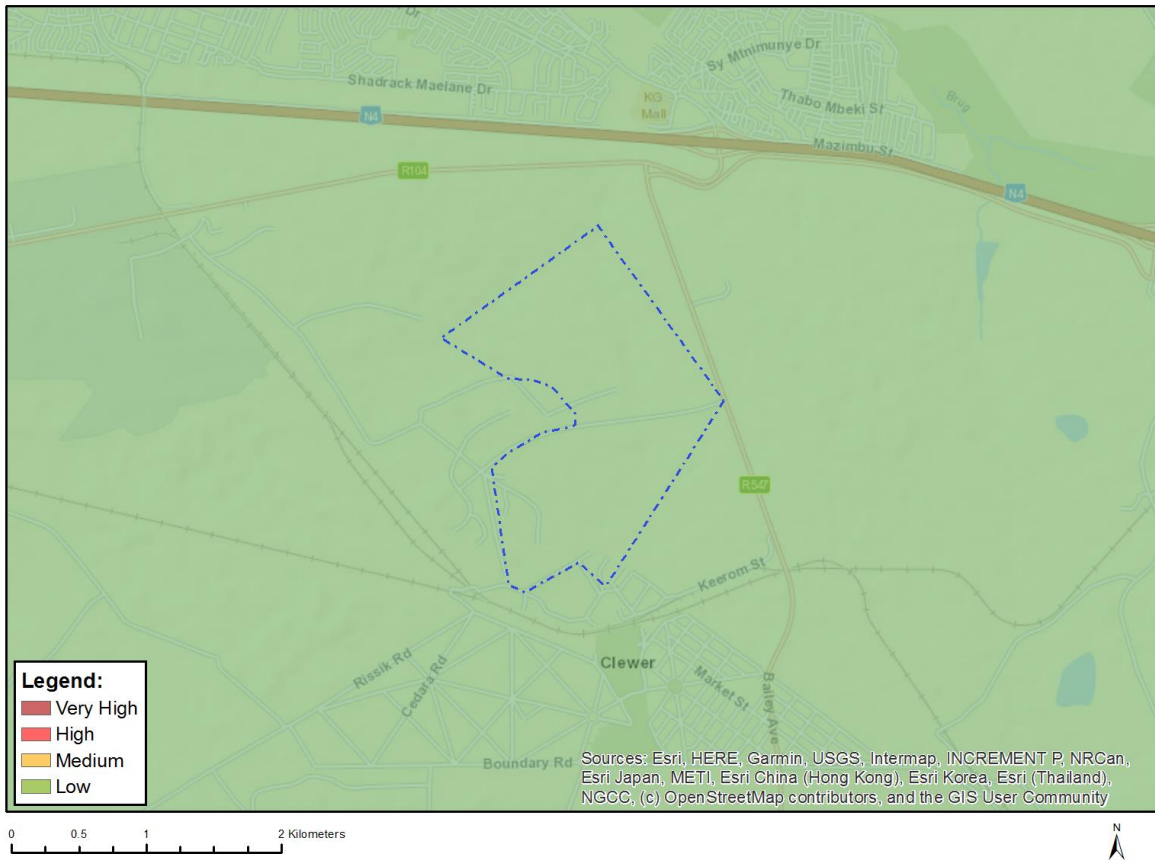


| Very High sensitivity | High sensitivity | Medium sensitivity | Low sensitivity |
|-----------------------|------------------|--------------------|-----------------|
|                       |                  |                    | X               |

### Sensitivity Features:

| Sensitivity | Feature(s)   |
|-------------|--|
| Low         | No major or other types of civil aviation aerodromes |

## MAP OF RELATIVE DEFENCE THEME SENSITIVITY



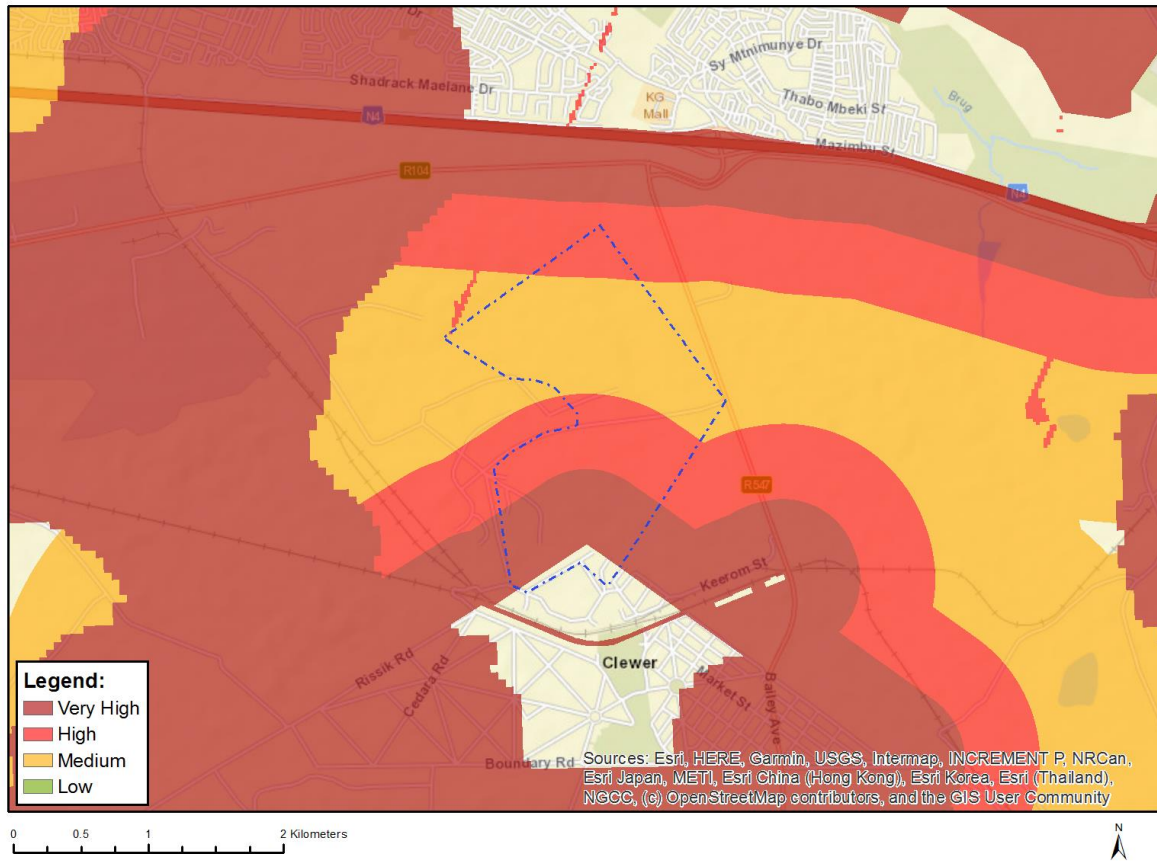
| Very High sensitivity | High sensitivity | Medium sensitivity | Low sensitivity |
|-----------------------|------------------|--------------------|-----------------|
|                       |                  |                    | X               |

### Sensitivity Features:

| Sensitivity | Feature(s)      |
|-------------|-----------------|
| Low         | Low sensitivity |



## MAP OF RELATIVE LANDSCAPE (SOLAR) THEME SENSITIVITY

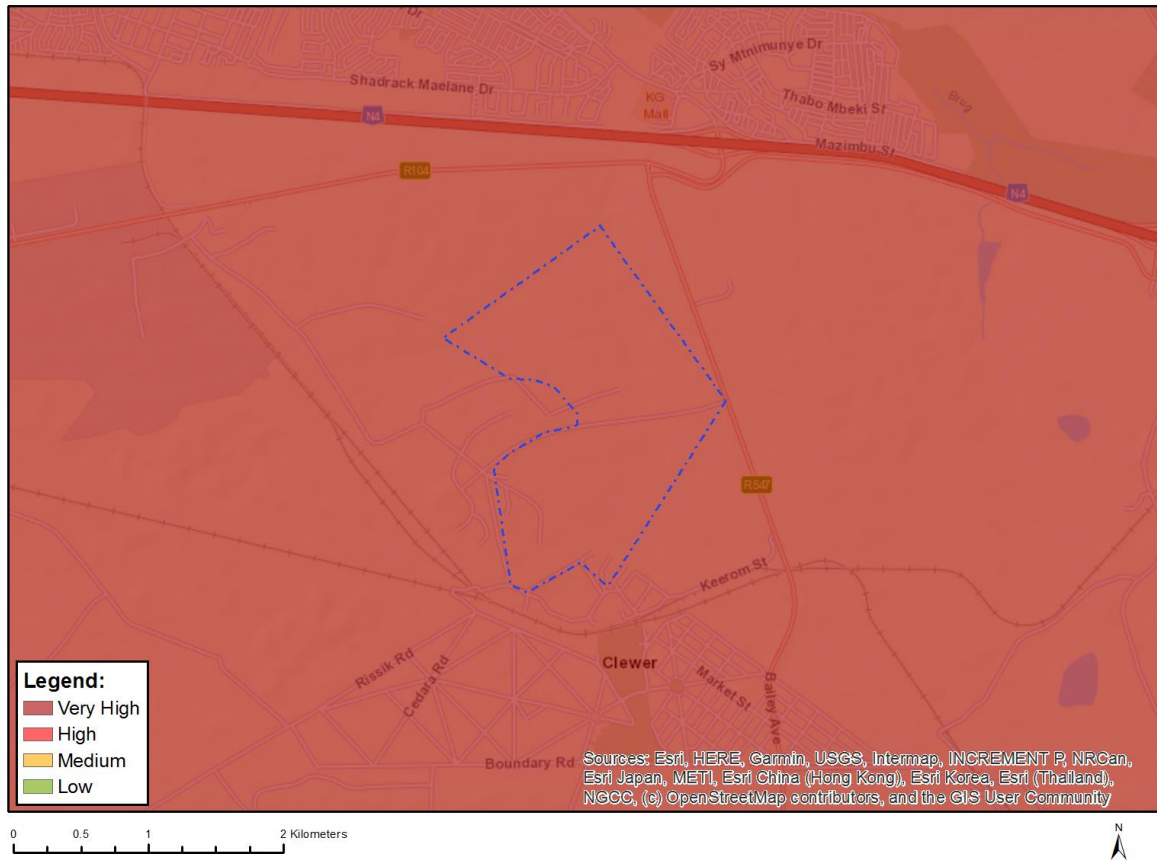


| Very High sensitivity | High sensitivity | Medium sensitivity | Low sensitivity |
|-----------------------|------------------|--------------------|-----------------|
| X                     |                  |                    |                 |

### Sensitivity Features:

| Sensitivity | Feature(s)                                  |
|-------------|---|
| High        | Between 500 and 1000 m of a town or village |
| High        | Slope between 1:4 and 1:10                  |
| Medium      | Between a and 2 km of a town or village     |
| Very High   | Within 500 m of a town or village           |

## MAP OF RELATIVE PALEONTOLOGY THEME SENSITIVITY

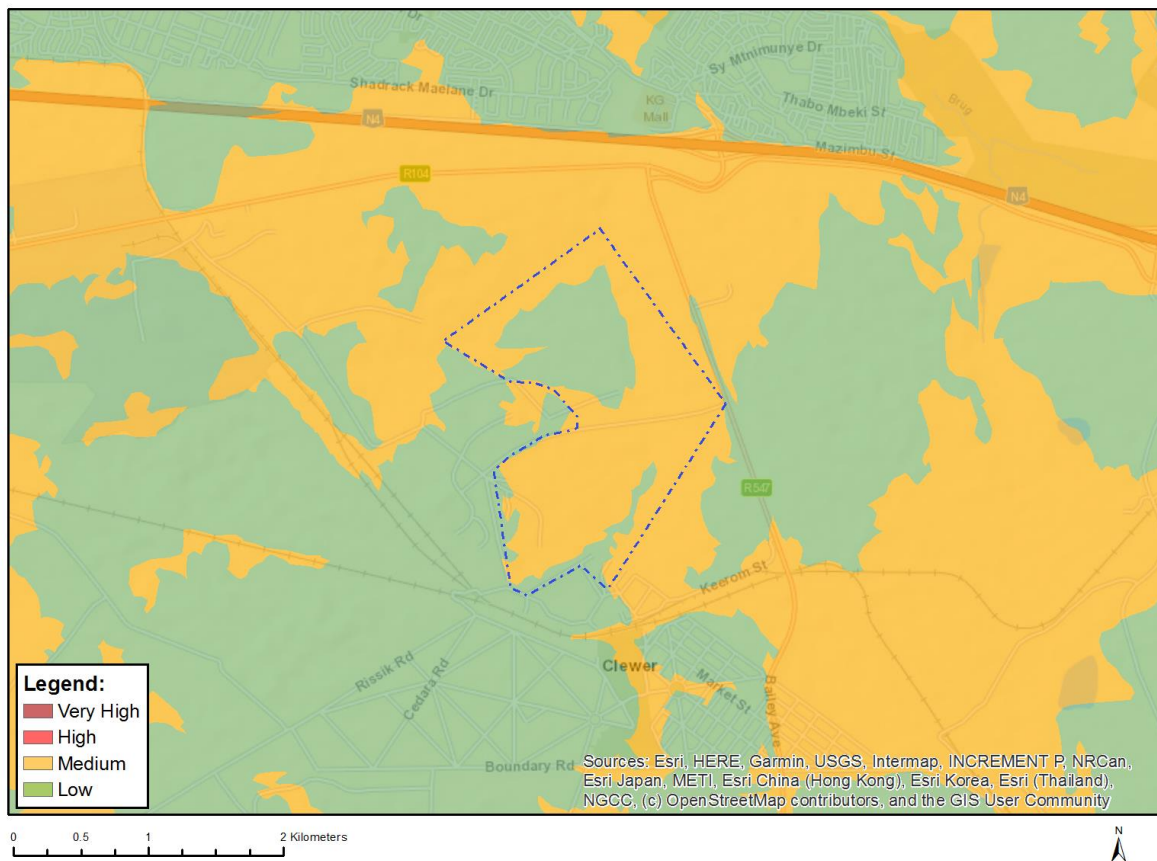


| Very High sensitivity | High sensitivity | Medium sensitivity | Low sensitivity |
|-----------------------|------------------|--------------------|-----------------|
| X                     |                  |                    |                 |

### Sensitivity Features:

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

## MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



Where only a sensitive plant unique number or sensitive animal unique number is provided in the screening report and an assessment is required, the environmental assessment practitioner (EAP) or specialist is required to email SANBI at [eiadatarequests@sanbi.org.za](mailto:eiadatarequests@sanbi.org.za) listing all sensitive species with their unique identifiers for which information is required. The name has been withheld as the species may be prone to illegal harvesting and must be protected. SANBI will release the actual species name after the details of the EAP or specialist have been documented.

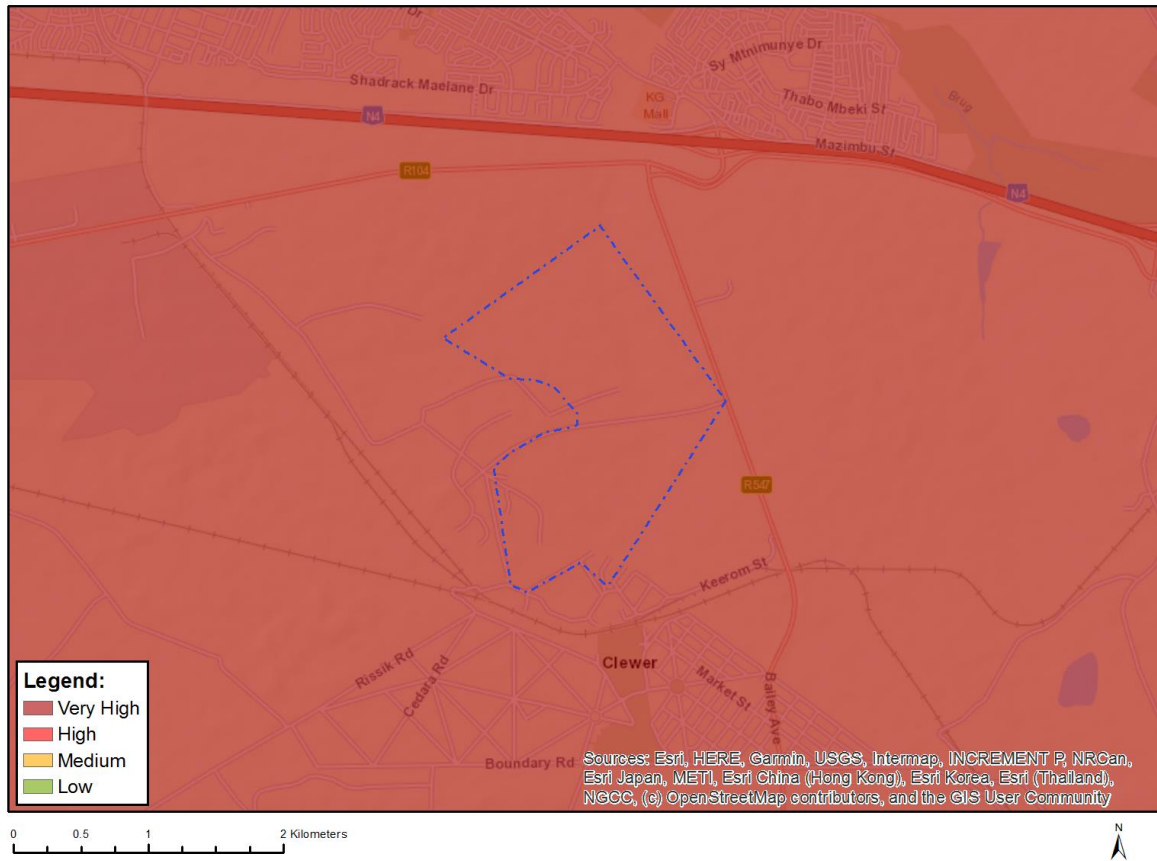
| Very High sensitivity | High sensitivity | Medium sensitivity | Low sensitivity |
|-----------------------|------------------|--------------------|-----------------|
|                       |                  | X                  |                 |

### Sensitivity Features:

| Sensitivity | Feature(s)                                  |
|-------------|---|
| Low         | Low Sensitivity                             |
| Medium      | Sensitive species 601                       |
| Medium      | Sensitive species 41                        |
| Medium      | Sensitive species 691                       |
| Medium      | Pachycarpus suaveolens                      |
| Medium      | Brachycorythis conica subsp. transvaalensis |



## 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   | Critical biodiversity area 2       |
| Very High   | Protected Areas Expansion Strategy |
| Very High   | Vulnerable ecosystem               |