

# APPLICATION FOR A WASTE MANAGEMENT LICENSE TO DECOMMISSION THE EVERITE ASBESTOS SITE, ERF 18354, BRACKENFELL

The "Protocols for the Assessment and Minimum Criteria for Reporting on identified Environmental Themes ("the Protocols") were published in Government Gazette No. 43110 on 20 March 2020 and Government Gazette No. 43855 on 30 October 2020. The Protocols are allowed for in terms of Sections 24(5)(a) and (h) and 44 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) ("NEMA").

The location of the site is shown in the aerial image included in Figure 1. The site is located in an urban area. This site sensitivity verification report relates to a Screening Tool Report (STR) completed for the site in March 2020. It should be noted that the same proposal was subject to a Basic Assessment in 2013 but the application lapsed before the process could be completed. Site investigations and specialist studies thus commenced prior to the Protocols being enacted and before the compilation of this SSV Report.

The map shows a residential area with various streets including Ruyland St, Vissers St, Bontzale St, Wajah St, Vivaldi St, Vugie St, Lyn St, Magnolia St, Morgenster St, Klammer St, Pieter St, Old Paarl Rd, Nanna St, Disa Rd, Els St, Koorboom Ave, Louw St, Alk St, Protea St, Rial Ave, Danila St, Mispel Wy, Eland St, Kruispad, and Kruin St. A red outline marks the proposed site, ERF 18354, which is located near the intersection of Ruyland St and Vissers St. A red arrow points to the site. A white box contains the text: "Proposed Site ERF 18354: 33° 52' 29'' S 18° 42' 03'' E". A scale bar indicates 624 m. A north arrow is in the top left corner. The Google Earth interface is visible at the bottom, showing the date 12/16/2011, coordinates (lat: 33.874122, lon: 18.701220, elev: 105 m), and a scale of 276 km.

Compiled by Chand Environmental Consultants  
September 2021

### SENSITIVITY VERIFICATION METHODOLOGY:

The site sensitivity verification statement was compiled by the EAP and is based on:

- A site visit undertaken on 3 March 2020.
- A desktop investigation using biodiversity and land use mapping tools (BGIS, Cape Farm Mapper, City of Cape Town Zoning Viewer, etc.); and
- Baseline information recorded in specialist assessments and reports undertaken by freshwater ecologist, botanical specialist, geohydrologist, geotechnical engineer, traffic engineer, heritage specialist and asbestos waste specialists.

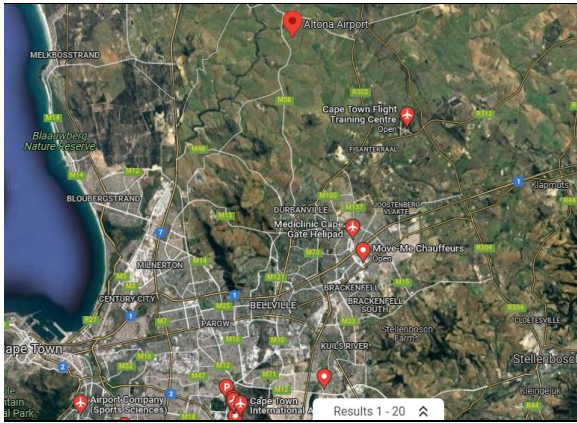
Note that at the time of writing this report, specialist studies had already been completed which provided ground-truthed knowledge on the actual environmental sensitivities of the site.

### SITE SENSITIVITY VERIFICATION:

The table below, supporting photographs and reference to specialist assessments serve to:

- Verify land use and sensitivities identified in the screening report; and
- Confirm / contest the need for the various specialist inputs called for in terms of the screening tool report.

No.	Environmental Theme	Applicable Protocol	Response
1.	<b>AGRICULTURE</b>  Sensitivity Rating: <b>Medium</b>  Requiring an Agricultural Impact Assessment  Actual Sensitivity: <b>Negligible</b>	Protocol for the assessment and reporting of environmental impacts on agricultural resources (in accordance with the protocol prescribed in GNR 320).	The Screening Tool denoted the site as Medium sensitivity.  The land is however not arable at all because it is contaminated with asbestos and excavation and planting of crops therein would result in significant disturbance to the asbestos, which is highly undesirable.  Therefore, no further consideration of the site's potential for agriculture is required and no further studies will be undertaken to investigate this theme
2.	<b>ANIMAL SPECIES</b>  Sensitivity Rating: <b>Medium</b>  Requiring an Animal Species Impact Assessment  Actual Sensitivity: <b>Low</b>	Animal Species Assessment Protocols prescribed in GN 43855)	A list of potential faunal species which could be found on site is included in the Botanical Impact Assessment (Turner, 2012).  This theme is further addressed in the EMPr which provides measures to protect any fauna found on site and the retention of the stormwater pond area and provision of green buffer areas would also serve to provide some faunal habitat.
3.	<b>AQUATIC BIODIVERSITY</b>  Sensitivity Rating: <b>Low</b>  Requiring an Animal Species Impact Assessment  Actual Sensitivity: <b>Low</b>	3(b) Protocol for the assessment and reporting of environmental impacts on aquatic biodiversity (GG 45421 of 10/05/2019) _ DRAFT	The Screening Tool has marked the site as Low Sensitivity.  A Freshwater Impact Assessment (Belcher, 2012) has been carried out and it describes the baseline conditions of the site and has considered the impacts applicable to the site and development proposal. It has also guided the proposed development footprint/site plan with the requirements for retention of the stormwater pond and a 15 m buffer zone (which is implicit in the proposed site plan).  Mitigation measures from the assessment have been included in the EMPr as well.

4.	<p><b>ARCHAEOLOGICAL AND CULTURAL HERITAGE</b></p> <p>Sensitivity Rating: <b>High</b></p> <p>Requiring an Archaeological and Cultural Heritage Impact Assessment</p> <p>Actual Sensitivity: <b>Low - Negligible</b></p>	<p>No specific protocol-consider general requirements (GG 45421 of 10/05/2019)_DRAFT)</p>	<p>Given the High rating for this theme and the extent of the site, a Heritage Practitioner (Baumann, 2012) conducted a screening assessment on the site and proposed development and completed a Notification of Intent to Develop (NID) in terms of Section 38(1) &amp; (8) of the National Heritage Resources Act (NHRA).</p> <p>Among other aspects, the NID contemplates archaeological and cultural heritage features of cultural significance and it has been confirmed that there are no such sensitivities on the site. In response to the NID, HWC confirmed same. Therefore, no further consideration in this regard is required. The NID and response from HWC are included in the Draft BAR.</p>
5.	<p><b>CIVIL AVIATION</b></p> <p>Sensitivity Rating: <b>High</b></p> <p>Requiring a Civil Aviation Impact Assessment</p> <p>Actual Sensitivity: <b>Negligible</b></p>	<p>In accordance with the protocol prescribed for Civil Aviation Assessment in GNR 320</p>	<p>The STR notes that the site is located within 15 km of a civil aviation radar and within 8 and 15 km of a major/other civil aviation aerodrome.</p> <p>This is presumably as a result of the Cape Town Flight Training Centre/Cape Winelands Airport, Cape Town International, the Altona airstrip and the Wingfield Military Base, all being located between 15 km and 30km away from the site (refer to Figure 2).</p>  <p><i>Figure 2: Location of civil aviation facilities in proximity to the site</i></p> <p>The proposed development however, would not affect any civil aviation activity given that the structures are not high and do not comprise any telecommunications structures that may have potential to interfere with navigation/communication. There are also no runway facilities or any other activity that could affect an aviation aerodrome or radar or its operations.</p> <p>This rating is therefore disputed to, in fact, to be Negligible.</p> <p>As such, no specialist investigations are deemed necessary and none have been undertaken in support of the application.</p>

6.	<b>PLANT SPECIES</b>  Sensitivity Rating: <b>High</b>  Requiring a Plant Species Impact Assessment  Actual Sensitivity: <b>High</b>	No specific protocol-consider general requirements (GG 45421 of 10/05/2019) _DRAFT)	<p>The Screening Tool has marked the site as High Sensitivity for the plant species theme.</p> <p>The EAP is in agreement with this rating and as such a botanical impact assessment (Turner, 2012) has been carried out for the site and the impact assessment is included in the Basic Assessment Report.</p> <p>Recommendations from the report have been included in the site plan (in the form of retaining the water catchment area and a buffer, as well as the inclusion of relocation of certain species, landscaping measures and a green landscaped area) and the EMPr.</p>
7.	<b>DEFENCE</b>  Sensitivity Rating: <b>Medium</b>  Requiring a Defence Assessment  Actual Sensitivity: <b>Negligible</b>	No specific protocol-consider general requirements (GG 45421 of 10/05/2019) _DRAFT)	<p>The Screening Tool flags this theme as Medium. This is presumably due to the nearby Wingfield Military base located some 20 km from the site.</p> <p>None of the components comprising the development proposal will compromise the ability of the defence force to defend the area against any unrest / threats on security. The development as proposed therefore presents no defence sensitivity and therefore, no specialist investigations are deemed necessary.</p>
8.	<b>TERRESTRIAL BIODIVERSITY</b>  Sensitivity Rating: <b>Very High</b>  Requiring a Terrestrial Biodiversity Impact Assessment  Actual Sensitivity: <b>High</b>	3(a) Protocol for the assessment and reporting of environmental impacts on terrestrial biodiversity (GG 45421 of 10/05/2019) _DRAFT	<p>The Screening Tool has marked the site as Very High Sensitivity.</p> <p>A botanical impact assessment has been carried out for the site and the impact assessment is included in the Basic Assessment Report.</p> <p>Recommendations from the report have been included in the site plan (in the form of retaining the water catchment area and a buffer, as well as the inclusion of relocation of certain species, landscaping measures and a green landscaped area) and the EMPr.</p>
<b>Other Impact Assessments called for by the Screening Tool</b>			
9.	Landscape/ Visual Assessment	No specific protocol-consider general requirements (GG 45421 of 10/05/2019) _DRAFT)	<p>A Heritage Practitioner conducted a screening assessment on the site and proposed development and completed a Notification of Intent to Develop (NID) in terms of Section 38(1) &amp; (8) of the National Heritage Resources Act (NHRA).</p> <p>Among other aspects, the NID contemplates landscapes and natural features of cultural significance and it has been confirmed that there are no such sensitivities on the site. In response to the NID, HWC confirmed same. Therefore, no further consideration in this regard is required.</p>
10.	Palaeontology Impact Assessment	No specific protocol-consider general requirements (GG 45421 of 10/05/2019) _DRAFT)	<p>A Heritage Practitioner conducted a screening assessment on the site and proposed development and completed a Notification of Intent to Develop (NID) in terms of Section 38(1) &amp; (8) of the National Heritage Resources Act (NHRA).</p>



			Among other aspects, the NID contemplates palaeontological features and it has been confirmed that there are no such sensitivities on the site. In response to the NID, HWC confirmed same. Therefore, no further consideration in this regard is required.
11.	Hydrology Assessment	No specific protocol-consider general requirements (GG 45421 of 10/05/2019) _DRAFT)	<p>The screening tool has not assigned a sensitivity rating to hydrology. The hydrology on site has been contemplated and addressed from a variety of angles through the following specialist assessments (which are included in this Basic Assessment Report):</p> <ul style="list-style-type: none"> <li>• Hydrogeology Assessment (refer to Appendix J5 of the BAR)</li> <li>• Geotechnical Assessment (refer to Appendix J3 of the BAR);</li> <li>• Freshwater Impact Assessment (refer to Appendix J2 of the BAR); and</li> <li>• Services Assessment and Stormwater Management Design (refer to Appendix H of the BAR).</li> </ul> <p>Requirements from these assessments have been responded to in the proposed layout as well as through specifications in the EMPr.</p>
12.	Noise Impact Assessment	Protocol for the assessment and reporting of noise impacts (GG 45421 of 10/05/2019) _DRAFT	<p>The Screening Tool has not assigned a sensitivity rating to noise. Noise impacts have been contemplated in the BAR and measures have been included in the EMPr to mitigate noise impacts during construction. However, the site is not considered to be a noise-sensitive environment given that it is located in an industrial area and surrounded by industrial use (the area is also zoned for industrial use).</p> <p>Therefore, no further considerations in this regard are applicable.</p>
13.	Traffic Impact Assessment	No specific protocol-consider general requirements (GG 45421 of 10/05/2019) _DRAFT)	As prescribed by the Screening Tool and as requested by an Interested Affected Party during the previous Basic Assessment, a traffic study has been conducted (refer to Appendix J6 of the BAR) and the findings thereof are included in the Basic Assessment Report and the EMPr.
14.	Geotechnical Assessment	No specific protocol-consider general requirements (GG 45421 of 10/05/2019) _DRAFT)	A traffic study was conducted (refer to Appendix J6 of the BAR) and the findings thereof are included in the Basic Assessment Report and the EMPr.
15.	Climate Impact Assessment	No specific protocol-consider general requirements (GG 45421 of 10/05/2019) _DRAFT)	No climate assessment has been done, however various flood events as per the City of Cape Town SUDS policy have been accommodated in the Stormwater Management Plan.
16.	Health Impact Assessment	No specific protocol-consider general requirements (GG 45421 of 10/05/2019) _DRAFT)	Risks to human health have been considered in the asbestos report (Appendix J7 of the BAR) in terms of the likelihood of human exposure to asbestos. Presence of asbestos in groundwater has been confirmed to be unlikely in the groundwater assessment (refer to Appendix J5 of the BAR).

			Furthermore, measures to limit exposure risk of asbestos to humans have been included in the EMPr
17.	Socio-Economic Assessment	No specific protocol-consider general requirements (GG 45421 of 10/05/2019)_DRAFT)	The socio-economic aspects of the site and proposal have been considered and addressed in the Basic Assessment Report through inclusion of the following: <ul style="list-style-type: none"> <li>• Socio-economic profile of the community around the site; and</li> <li>• Detailing the financial contribution of the project to the economy as well as to previously disadvantaged individuals.</li> </ul>
18.	Ambient Air Quality Impact Assessment	No specific protocol-consider general requirements (GG 45421 of 10/05/2019)_DRAFT)	Ambient air quality monitoring for airborne asbestos has been undertaken (and continues to be undertaken on site), with the findings thereof detailed in the Asbestos Report (refer to Appendix J7 of the BAR by OHMS, 2021).  No airborne asbestos has been detected and so no further air quality impact assessment is required. However, monitoring for airborne asbestos will continue until closure of the site.
19.	Seismicity Assessment	No specific protocol-consider general requirements (GG 45421 of 10/05/2019)_DRAFT)	No seismicity assessment specifically has been; however, the geotechnical report (refer to Appendix J3 of the BAR) has made recommendations pertaining to appropriate foundations which would withstand earthquakes as well as other factors.

#### References:

Baumann, N. May 2012. *Everite Asbestos Site Brackenfell Waste Consolidation site: Decommissioning and Redevelopment*, NID Submission in terms of Section 38 (8) of the NHR Act. N Baumann, Cape Town

Belcher, A. June 2012. *Freshwater Assessment for the Proposed Decommissioning and Redevelopment of the Everite Asbestos Waste Consolidation Site*. BlueScience, Cape Town

OHMS. September 2021. *Asbestos Assessment for Chand Environmental Consultants: Everite Site, Brackenfell, Cape Town*. OHMS, Melkbosstrand

Turner, R. June 2012. *Botanical Screening Report of the Old Everite Asbestos Waste Consolidation Site, Brackenfell, Cape Town*. Ross Turner, Kommetjie

## **APPENDIX A:**

### Screening Tool Report

**SCREENING REPORT FOR AN ENVIRONMENTAL AUTHORIZATION OR  
FOR A PART TWO AMENDMENT OF AN ENVIRONMENTAL AUTHORISATION  
AS REQUIRED BY THE 2014 EIA REGULATIONS – PROPOSED SITE  
ENVIRONMENTAL SENSITIVITY**

**EIA Reference number:** pending

**Project name:** Everite Site

**Project title:** Waste Management License for Capping and Redevelopment of Old Everite  
Asbestos Site, Erf 18354, Brackenfell Industria

**Date screening report generated:** 23/03/2020 12:06:43

**Applicant:** Duro Brick Co (Pty) Ltd

**Compiler:** Chand Environmental Consultants

**Compiler signature:**

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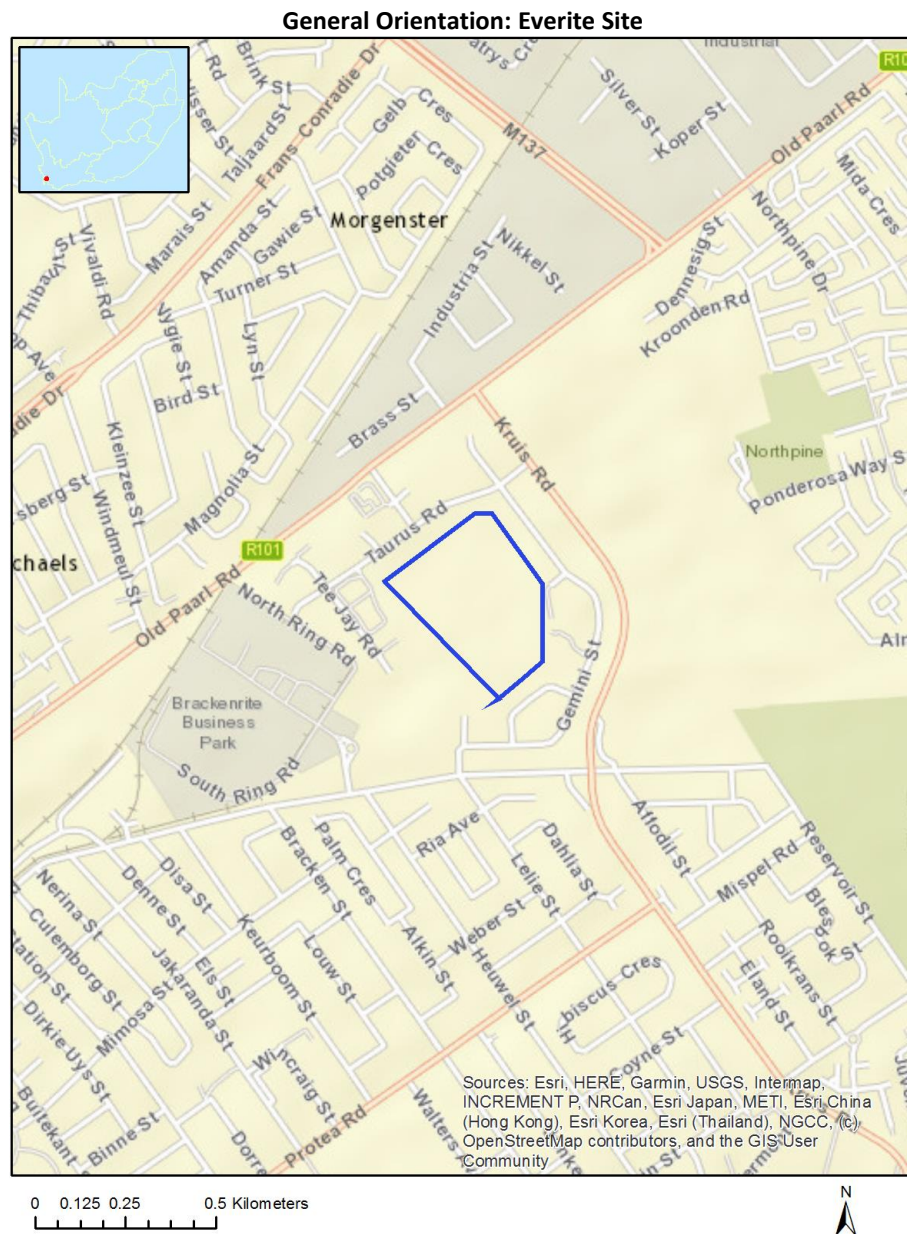


## Table of Contents

Proposed Project Location .....	3
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 .....	4
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
MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY .....	13
MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY .....	14
MAP OF RELATIVE DEFENCE THEME SENSITIVITY .....	17
MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY .....	18

# 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	BRACKENFELL (STELLENBOSCH)	18354	0	33°52'29.97S	18°42'3.92E	Erven
2	BRACKENFELL (STELLENBOSCH)	18484	0	33°52'39.09S	18°41'59.63E	Erven
3	BRACKENFELL (STELLENBOSCH)	18484	0	33°52'39.26S	18°41'58.39E	Erven
4	BRACKENFELL (STELLENBOSCH)	14290	0	33°52'37.28S	18°42'6.63E	Erven

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 nearby wind or solar developments found.

<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.

## Environmental Management Frameworks relevant to the application

No intersections with EMF areas found.

## Environmental screening results and assessment outcomes

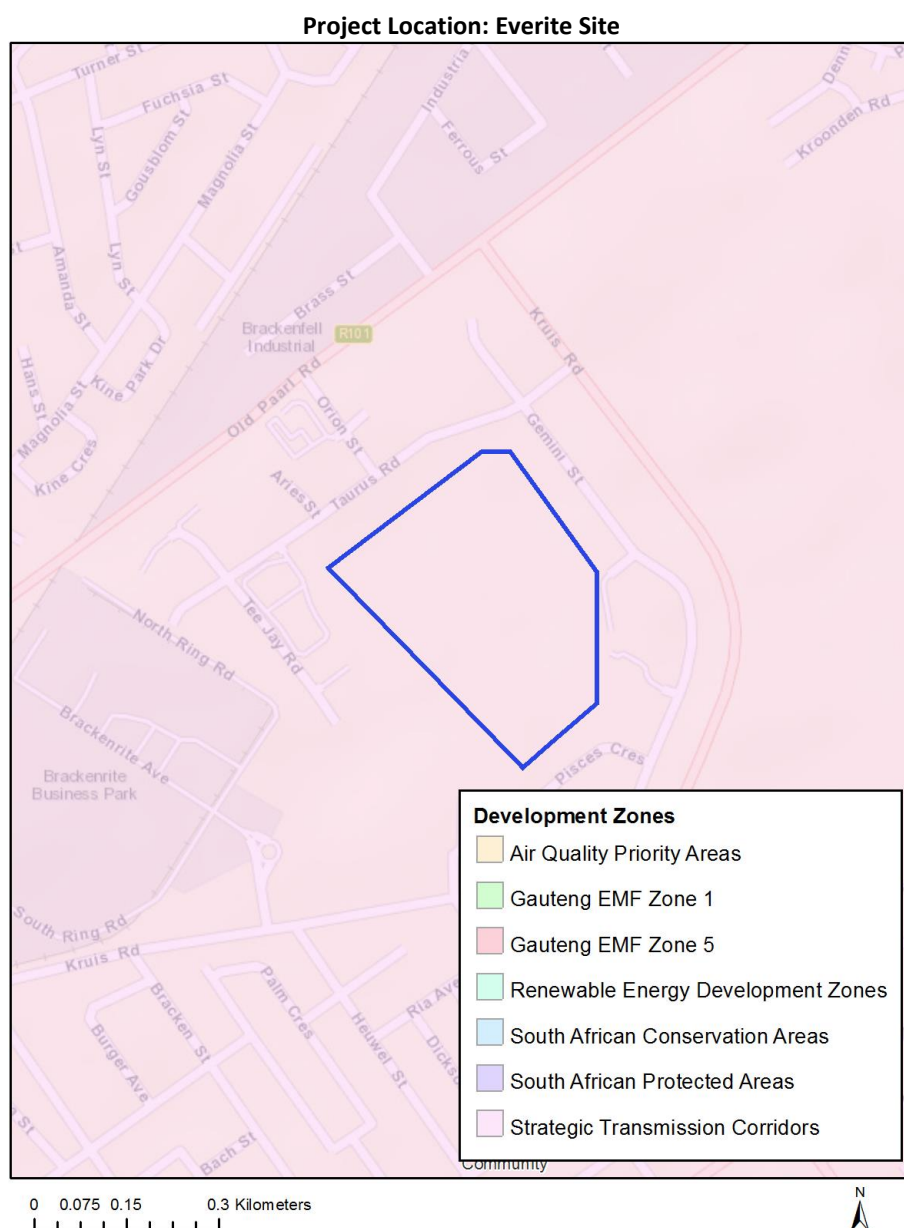
The following sections contain a summary of any development incentives, restrictions, exclusions or prohibitions that apply to the proposed development site as well as the most environmental sensitive features on the site based on the site sensitivity screening results for the application classification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

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

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

Incentive, restriction or prohibition	Implication
Strategic Transmission Corridor-Central corridor	<a href="https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GNR_350_of_13_April_2017.pdf">https://screening.environment.gov.za/ScreeningDownloads/DevelopmentZones/GNR_350_of_13_April_2017.pdf</a>

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		
Plant Species Theme		X		
Defence 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	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Agriculture_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Agriculture_Assessment_Protocols.pdf</a>
2	Landscape/Visual Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
3	Archaeological and Cultural Heritage Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
4	Palaeontology Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
5	Terrestrial Biodiversity Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Terrestrial_Biodiversity_Assessment_Protocols.pdf</a>
6	Aquatic Biodiversity Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Aquatic_Biodiversity_Assessment.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Aquatic_Biodiversity_Assessment.pdf</a>
7	Hydrology	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols</a>

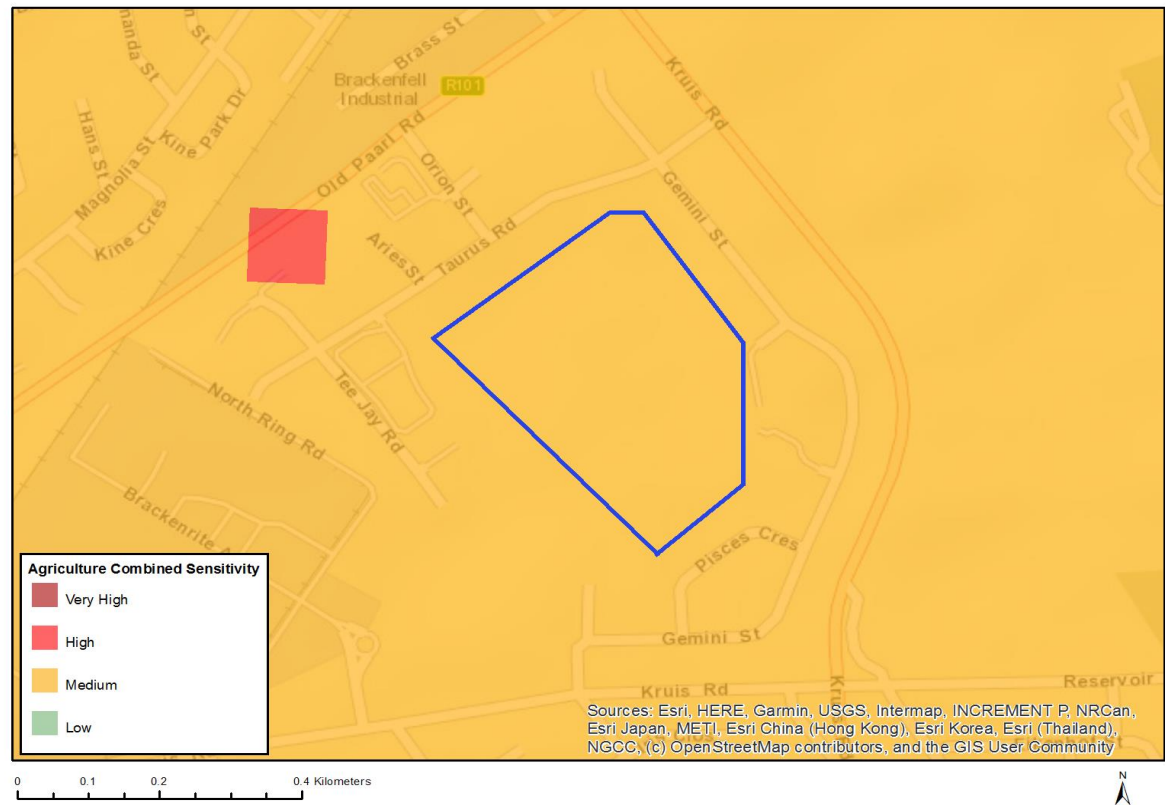
	Assessment	<a href="#">/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
8	Noise Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Noise_Impacts_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_Noise_Impacts_Assessment_Protocols.pdf</a>
9	Traffic Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
10	Geotechnical Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
11	Climate Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
12	Health Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
13	Socio-Economic Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
14	Ambient Air Quality Impact Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
15	Seismicity Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
16	Plant Species Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf</a>
17	Animal Species Assessment	<a href="https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_Assessment_Protocols.pdf">https://screening.environment.gov.za/ScreeningDownloads/AssessmentProtocols/DraftGazetted_General_Requirement_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

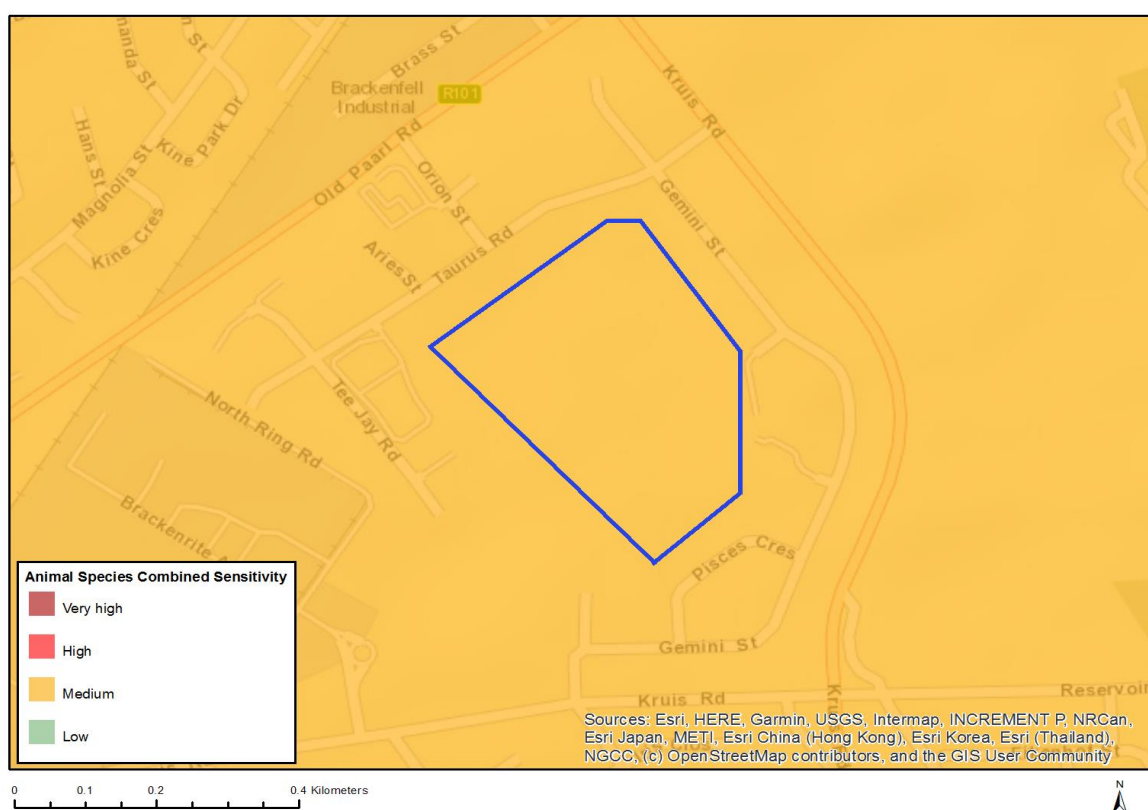


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

### Sensitivity Features:

Sensitivity	Feature(s)
Medium	Land capability;06. Low-Moderate/07. Low-Moderate/08. Moderate

## MAP OF RELATIVE ANIMAL SPECIES THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

### Sensitivity Features:

Sensitivity	Feature(s)
Medium	Insecta-Torynesis mintha piquetbergensis
Medium	Sensitive species 2
Medium	Sensitive species 7
Medium	Insecta-Aloeides egerides
Medium	Insecta-Kedestes lenis lenis

MAP OF RELATIVE AQUATIC BIODIVERSITY THEME SENSITIVITY

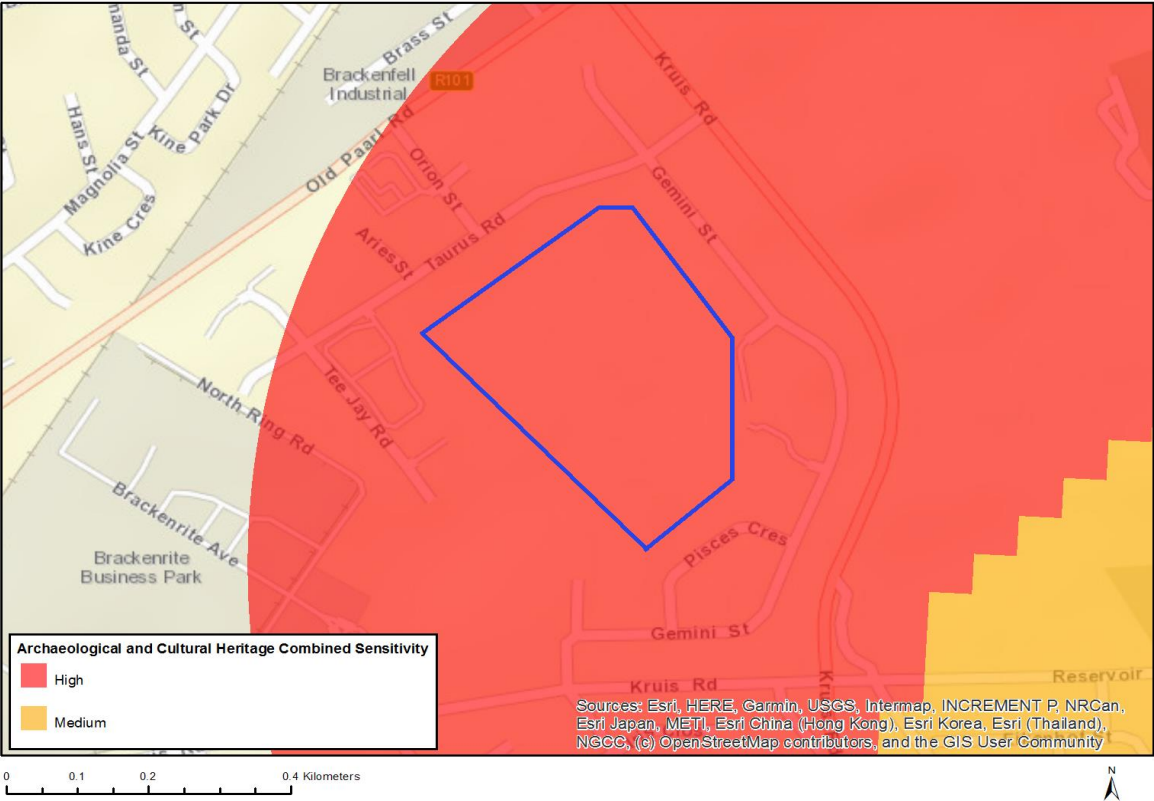


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
			X

Sensitivity Features:

Sensitivity	Feature(s)
Low	Low Sensitivity Areas

# MAP OF RELATIVE ARCHAEOLOGICAL AND CULTURAL HERITAGE THEME SENSITIVITY

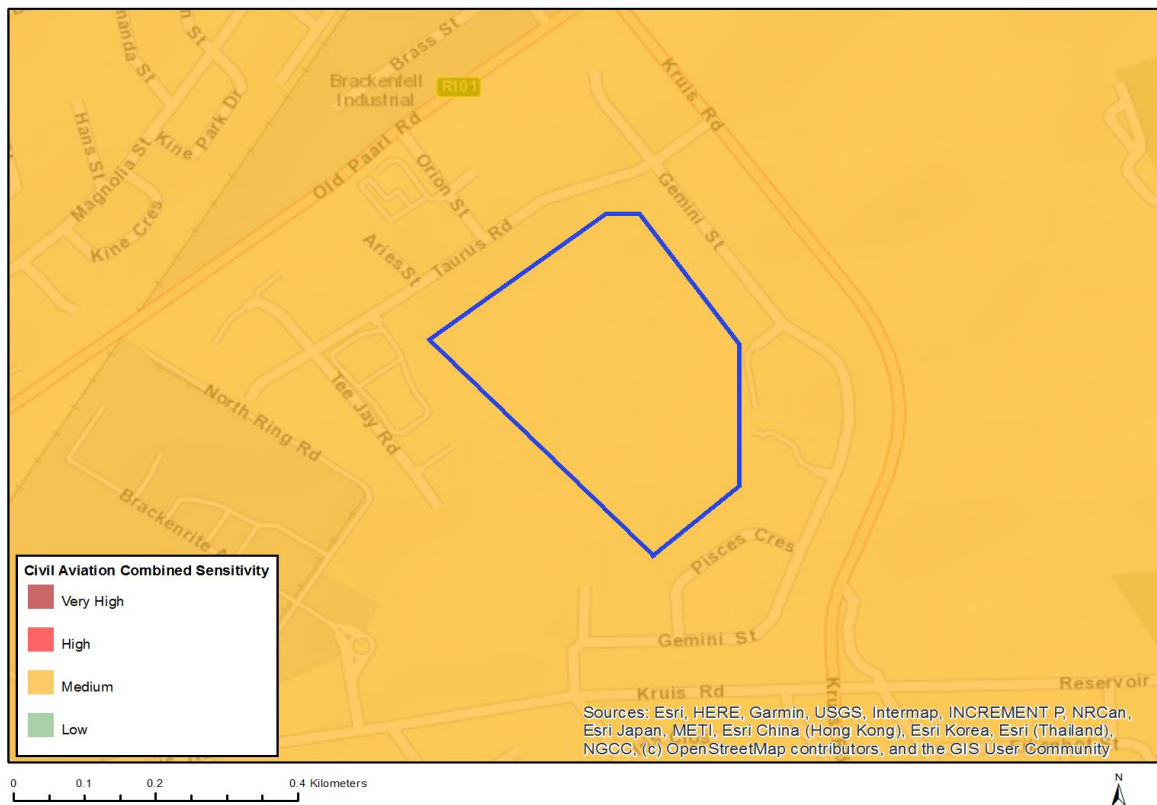


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

## Sensitivity Features:

Sensitivity	Feature(s)
High	Within 1 km of a protected area

## MAP OF RELATIVE CIVIL AVIATION THEME SENSITIVITY

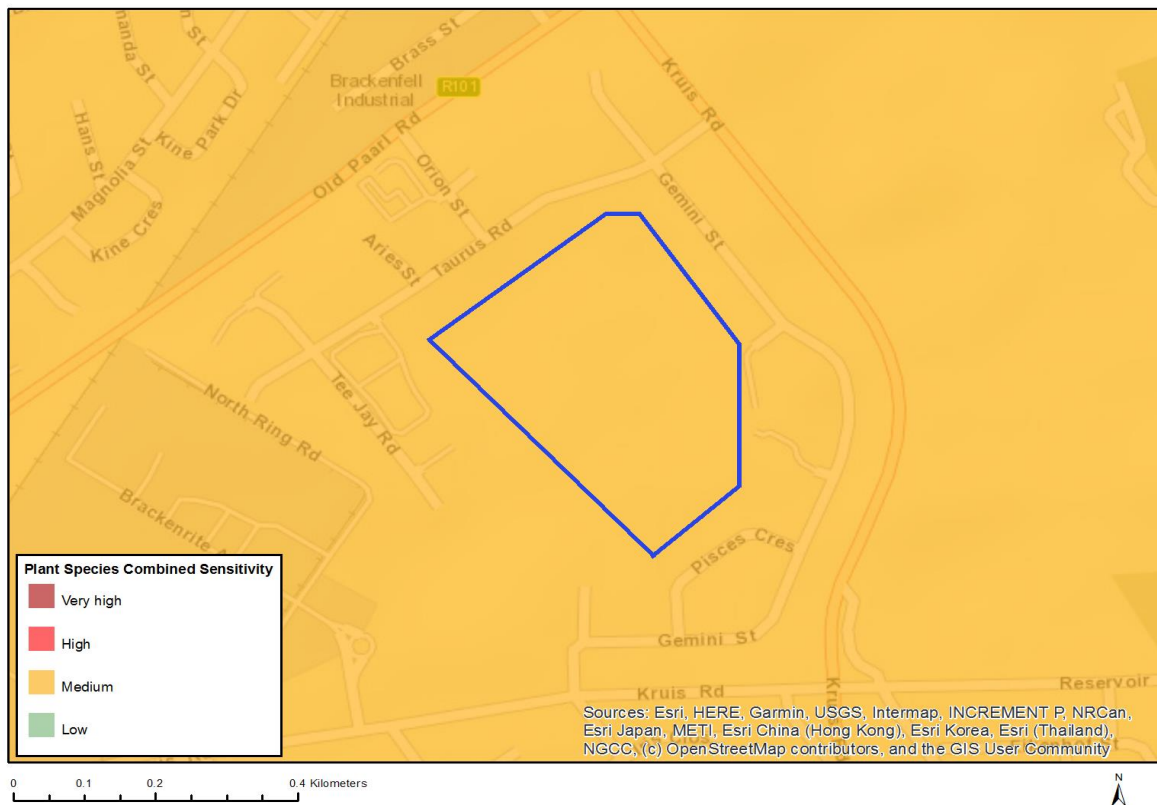


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

### Sensitivity Features:

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

## MAP OF RELATIVE PLANT SPECIES THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

### Sensitivity Features:

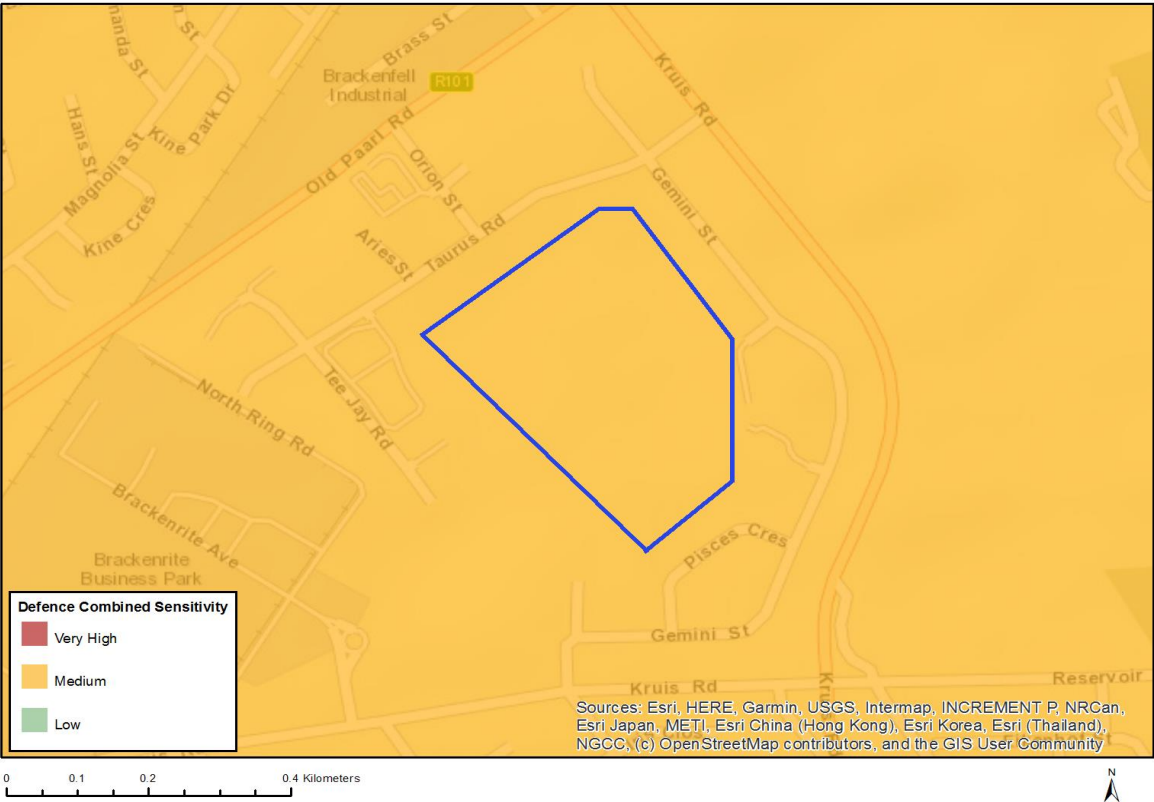
Sensitivity	Feature(s)
High	<i>Aspalathus tyloides</i>
High	<i>Leucospermum hypophyllocarpodendron</i> subsp. <i>canaliculatum</i>
High	<i>Protea scolymocephala</i>
High	<i>Serruria aemula</i>
Medium	<i>Microdon capitatus</i>
Medium	<i>Pentameris bachmannii</i>
Medium	<i>Pentameris pholiuroides</i>
Medium	<i>Antimima aristulata</i>
Medium	<i>Lobostemon capitatus</i>
Medium	<i>Echiostachys incanus</i>
Medium	Sensitive species 76
Medium	<i>Geissorhiza brehmii</i>
Medium	<i>Geissorhiza humilis</i>
Medium	Sensitive species 457
Medium	Sensitive species 458
Medium	Sensitive species 464
Medium	Sensitive species 447
Medium	Sensitive species 642
Medium	Sensitive species 590
Medium	<i>Pauridia canaliculata</i>
Medium	<i>Ruschia geminiflora</i>
Medium	<i>Drosanthemum hispidifolium</i>

Medium	<i>Oxalis natans</i>
Medium	<i>Cephalophyllum parviflorum</i>
Medium	<i>Erica bolusiae</i> var. <i>bolusiae</i>
Medium	Sensitive species 364
Medium	Sensitive species 351
Medium	Sensitive species 683
Medium	<i>Adenogramma rigida</i>
Medium	<i>Wachendorfia brachyandra</i>
Medium	<i>Hessea cinnamomea</i>
Medium	<i>Isoetes capensis</i>
Medium	<i>Isolepis inconspicua</i>
Medium	<i>Trianoptiles solitaria</i>
Medium	<i>Cannomois arenicola</i>
Medium	<i>Elegia prominens</i>
Medium	<i>Elegia verreauxii</i>
Medium	<i>Restio impolitus</i>
Medium	<i>Restio rigoratus</i>
Medium	<i>Restio pratensis</i>
Medium	<i>Restio duthieae</i>
Medium	<i>Restio micans</i>
Medium	<i>Restio paludosus</i>
Medium	Sensitive species 306
Medium	Sensitive species 294
Medium	Sensitive species 286
Medium	Sensitive species 287
Medium	<i>Amphithalea ericifolia</i> subsp. <i>erecta</i>
Medium	<i>Argyrobium velutinum</i>
Medium	Sensitive species 718
Medium	<i>Pterygodium cruciferum</i>
Medium	<i>Xiphotheca lanceolata</i>
Medium	<i>Xiphotheca reflexa</i>
Medium	<i>Gnidia spicata</i>
Medium	<i>Passerina paludosa</i>
Medium	<i>Lachnaea grandiflora</i>
Medium	<i>Lachnaea uniflora</i>
Medium	<i>Lachnaea capitata</i>
Medium	<i>Metalasia capitata</i>
Medium	<i>Steirodiscus tagetes</i>
Medium	<i>Cotula pusilla</i>
Medium	<i>Athanasia capitata</i>
Medium	<i>Arctotis angustifolia</i>
Medium	<i>Psoralea glaucina</i>
Medium	<i>Psoralea alata</i>
Medium	<i>Arctotheca forbesiana</i>
Medium	<i>Diosma dichotoma</i>
Medium	<i>Agathosma corymbosa</i>
Medium	<i>Macrostylis villosa</i> subsp. <i>villosa</i>
Medium	<i>Macrostylis cassiopoides</i> subsp. <i>dregeana</i>
Medium	<i>Cliffortia marginata</i>
Medium	<i>Cliffortia ericifolia</i>
Medium	<i>Cliffortia hirta</i>
Medium	<i>Liparia splendens</i> subsp. <i>splendens</i>
Medium	<i>Limonium purpuratum</i>
Medium	<i>Muraltia brevicornu</i>
Medium	<i>Muraltia decipiens</i>
Medium	<i>Muraltia macropetala</i>
Medium	<i>Muraltia mitior</i>
Medium	<i>Aspalathus lebeckioides</i>
Medium	<i>Aspalathus araneosa</i>
Medium	<i>Aspalathus recurva</i>



Medium	<i>Aspalathus retroflexa</i> subsp. <i>bicolor</i>
Medium	<i>Aspalathus tylodes</i>
Medium	Sensitive species 547
Medium	Sensitive species 512
Medium	<i>Phylica harveyi</i>
Medium	<i>Rafnia angulata</i> subsp. <i>humilis</i>
Medium	<i>Podalyria sericea</i>
Medium	<i>Podalyria argentea</i>
Medium	<i>Skiatophytum skiatophytoides</i>
Medium	<i>Thesium ecklonianum</i>
Medium	<i>Aponogeton angustifolius</i>
Medium	<i>Leucadendron verticillatum</i>
Medium	<i>Leucadendron cinereum</i>
Medium	<i>Leucadendron corymbosum</i>
Medium	<i>Leucadendron floridum</i>
Medium	<i>Leucadendron lanigerum</i> var. <i>lanigerum</i>
Medium	<i>Leucadendron levisanus</i>
Medium	<i>Leucadendron linifolium</i>
Medium	<i>Leucospermum hypophyllocarpodendron</i> subsp. <i>canaliculatum</i>
Medium	<i>Leucospermum hypophyllocarpodendron</i> subsp. <i>hypophyllocarpodendron</i>
Medium	<i>Leucospermum rodolentum</i>
Medium	<i>Protea scolymocephala</i>
Medium	<i>Protea burchellii</i>
Medium	<i>Diastella proteoides</i>
Medium	<i>Serruria brownii</i>
Medium	<i>Serruria cyanoides</i>
Medium	<i>Serruria aemula</i>
Medium	<i>Serruria trilopha</i>
Medium	<i>Lampranthus amoenus</i>
Medium	<i>Lampranthus leptaleon</i>
Medium	<i>Lampranthus scaber</i>
Medium	<i>Lampranthus sociorum</i>
Medium	<i>Lampranthus stenopetalus</i>
Medium	<i>Lampranthus stenus</i>
Medium	<i>Lampranthus tenuifolius</i>
Medium	<i>Lampranthus debilis</i>
Medium	<i>Lampranthus filicaulis</i>
Medium	<i>Lampranthus glaucus</i>

# MAP OF RELATIVE DEFENCE THEME SENSITIVITY

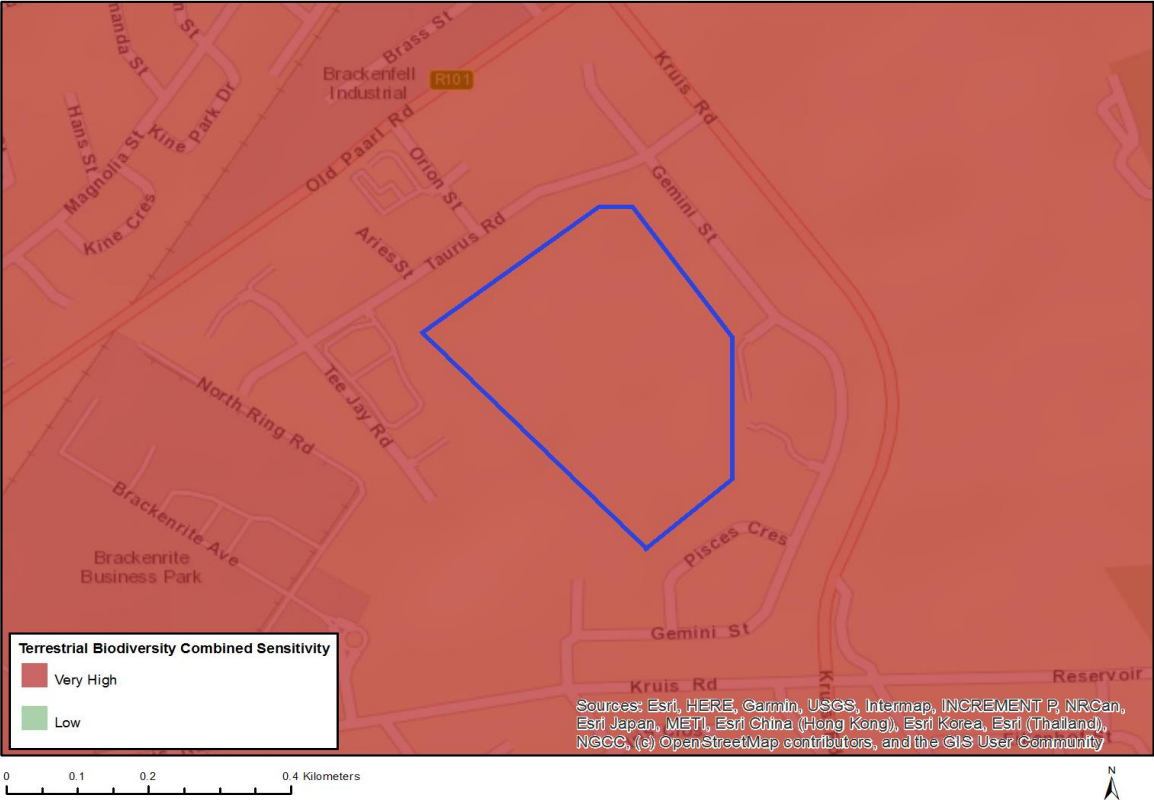


Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
		X	

## Sensitivity Features:

Sensitivity	Feature(s)
Medium	Defence Site

# MAP OF RELATIVE TERRESTRIAL BIODIVERSITY THEME SENSITIVITY



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
X			

## Sensitivity Features:

Sensitivity	Feature(s)
Very High	Critically endangered ecosystem