



CTS HERITAGE

## HERITAGE SCREENER

CTS Reference Number:	CTS18_212 ATSA747c
HWC Ref:	19013113
Client:	EnviroAfrica
Date:	February 2019
Title:	<b>Proposed development of a 30m tall telecommunications mast on Farm 161, Swellendam Road, Buffeljagsrivier (Site Name: Buffeljagsrivier Agri)</b>
Recommendation by CTS Heritage Specialists	<b>RECOMMENDATION:</b> <b>The heritage resources in the area proposed for development are sufficiently recorded.</b> <b>Due to the location and nature of the proposed development, it is unlikely that significant heritage resources will be impacted by the development and as such, it is recommended that no further heritage studies are required.</b>

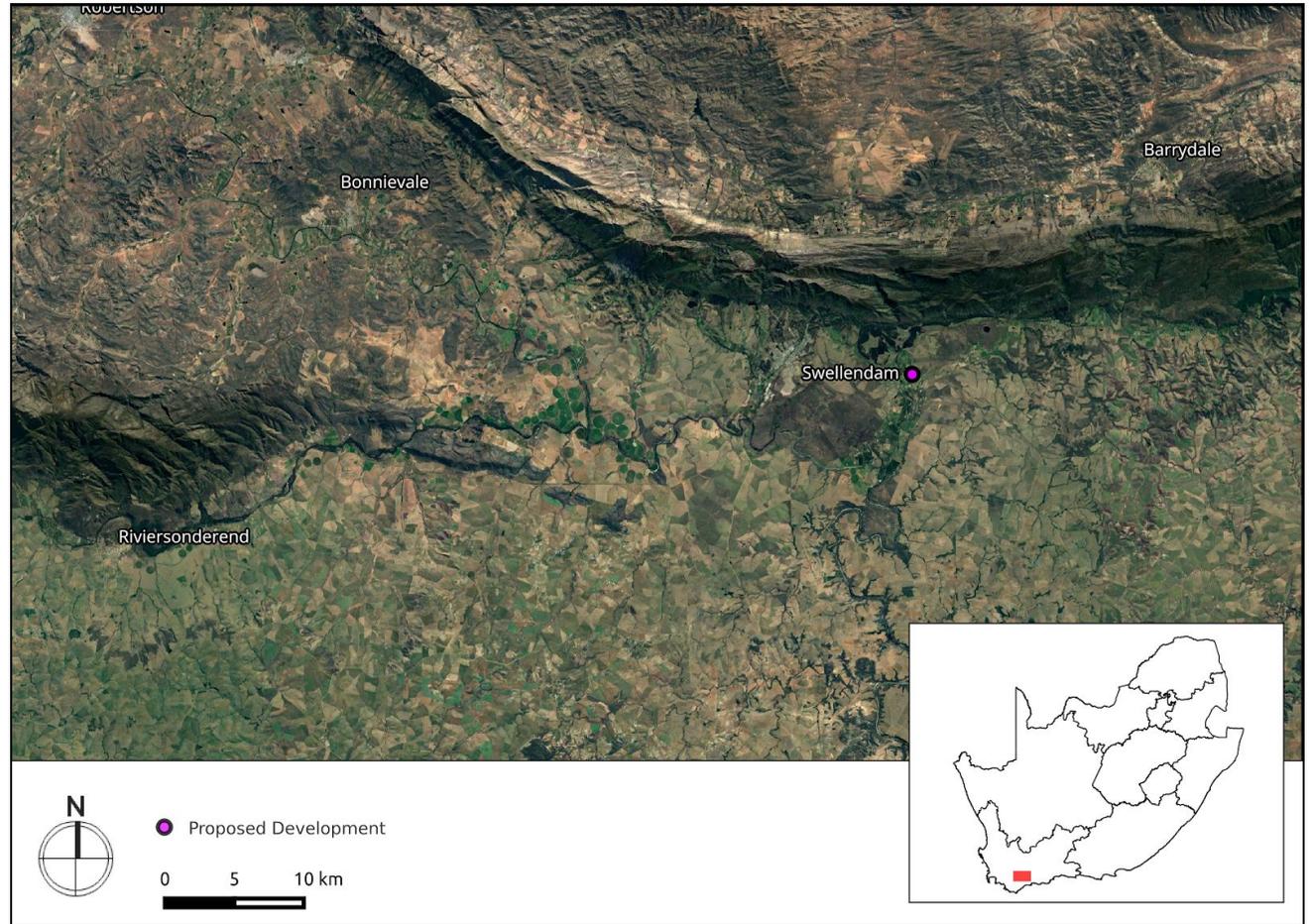


Figure 1a. Satellite map indicating the location of the proposed development in the Western Cape Province

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## 1. Proposed Development Summary

Proposed development of a 30m tall telecommunications mast on Farm 161, Swellendam Road, Buffeljagsrivier (Site Name: Buffeljagsrivier Agri)

## 2. Application References

Name of relevant heritage authority(s)	HWC
Name of decision making authority(s)	DEADP

## 3. Property Information

Latitude / Longitude	-34.0358550° S 20.539532° E
Erf number / Farm number	Farm 161
Local Municipality	Swellendam
District Municipality	Overberg
Previous Magisterial District	Swellendam
Province	Western Cape
Current Use	Agriculture
Current Zoning	Agriculture
Total Extent	7.99 Ha

## 4. Nature of the Proposed Development

Total Surface Area	100m2
Depth of excavation (m)	>2m
Height of development (m)	30m
Expected years of operation before decommission	NA

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## 5. Category of Development

x	<b>Triggers: Section 38(8) of the National Heritage Resources Act</b>
	<b>Triggers: Section 38(1) of the National Heritage Resources Act</b>
	1. Construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier over 300m in length.
	2. Construction of a bridge or similar structure exceeding 50m in length.
	3. Any development or activity that will change the character of a site-
	a) exceeding 5 000m <sup>2</sup> in extent
	b) involving three or more existing erven or subdivisions thereof
	c) involving three or more erven or divisions thereof which have been consolidated within the past five years
	4. Rezoning of a site exceeding 10 000m <sup>2</sup>
	5. Other (state):

## 6. Additional Infrastructure Required for this Development

NA

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## 7. Mapping (please see Appendix 3 and 4 for a full description of our methodology and map legends)



**Figure 1b. Overview Map.** Satellite image (2017) indicating the proposed development area at closer range.

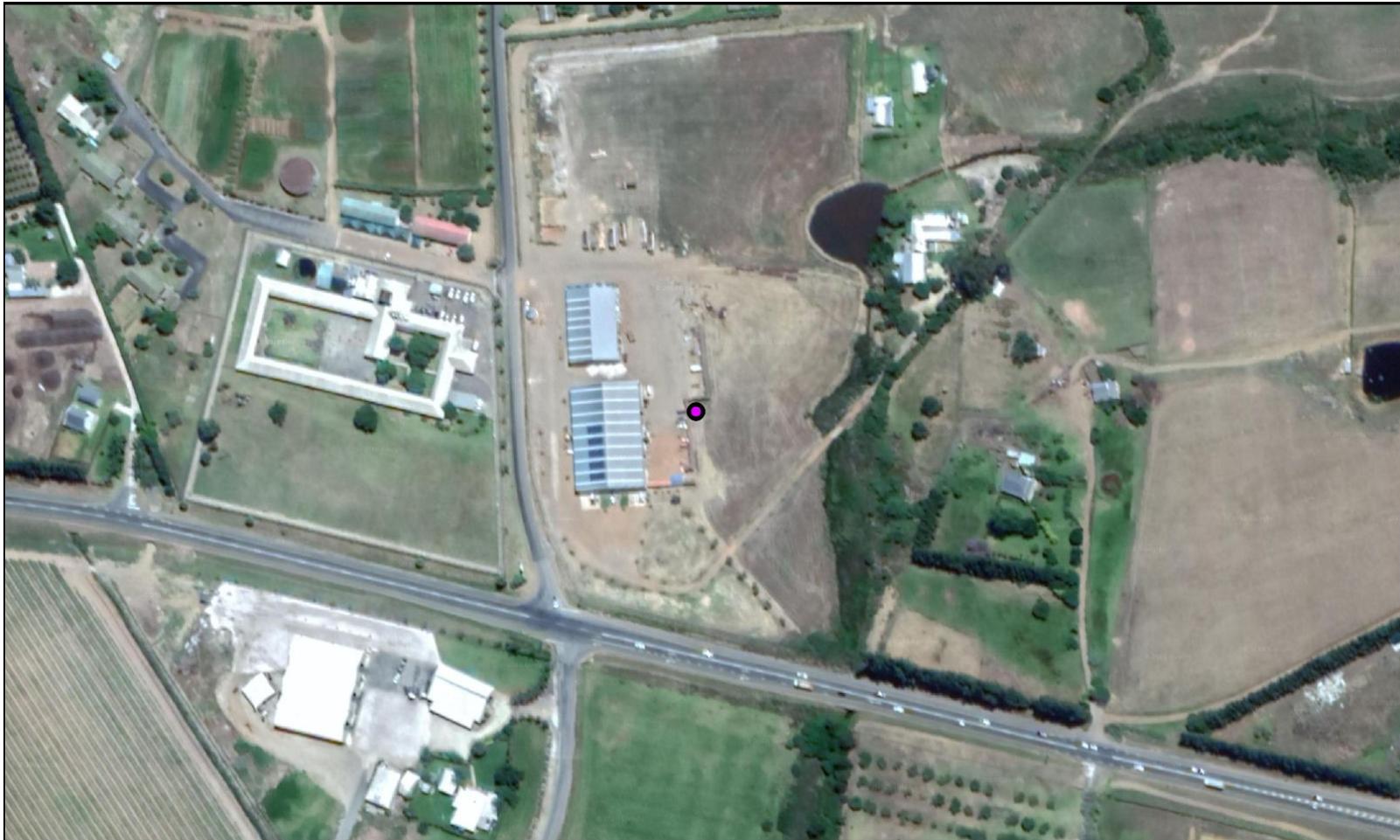
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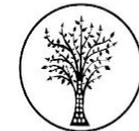


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● Proposed Development

100 0 100 m



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**Figure 1c. Overview Map.** Satellite image (2017) indicating the proposed development area at closer range.

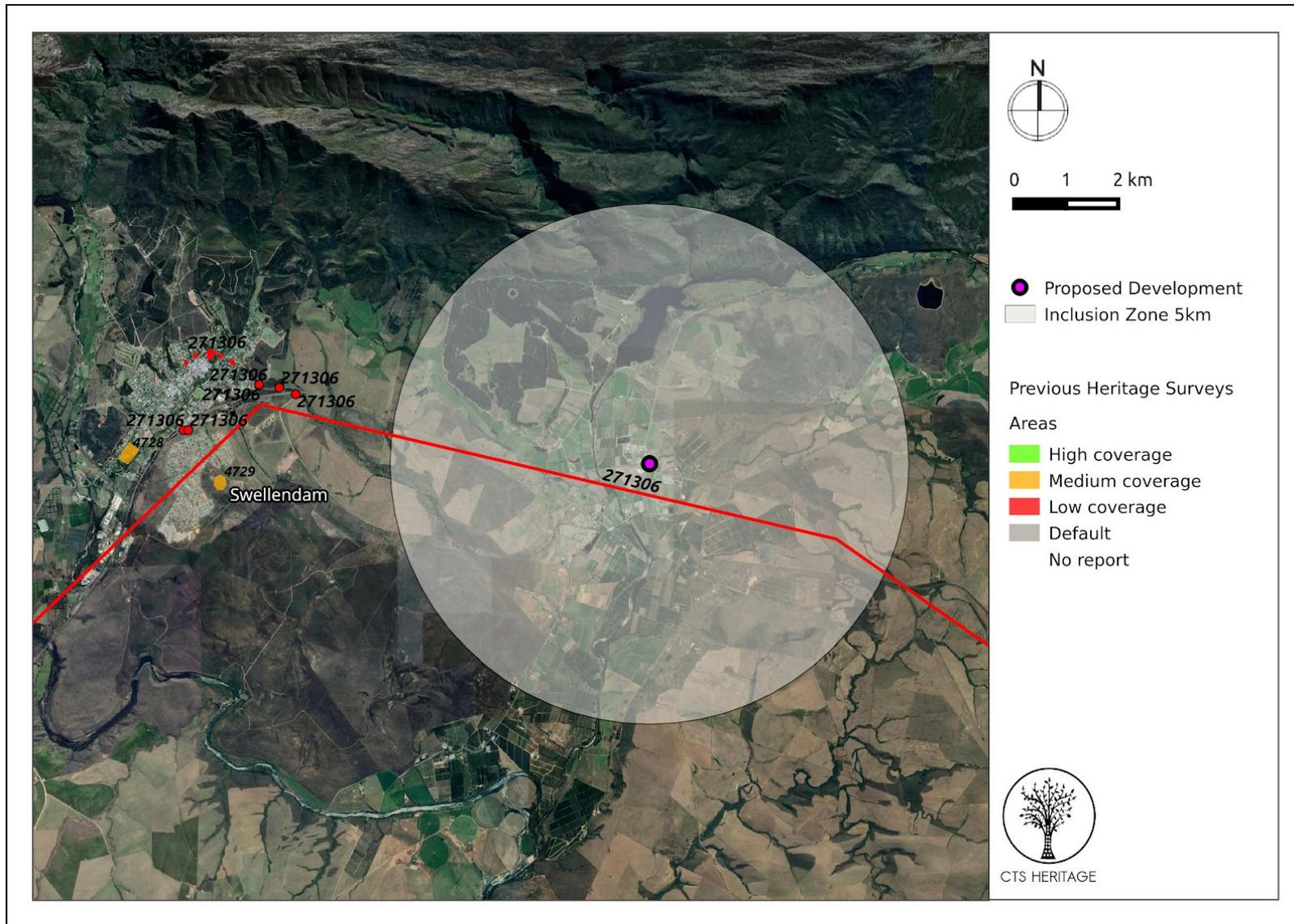
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**Figure 2. Previous HIAs Map.** Previous Heritage Impact Assessments surrounding the proposed development area within 5km, with SAHRIS NIDS indicated. Please see Appendix 2 for full reference list.

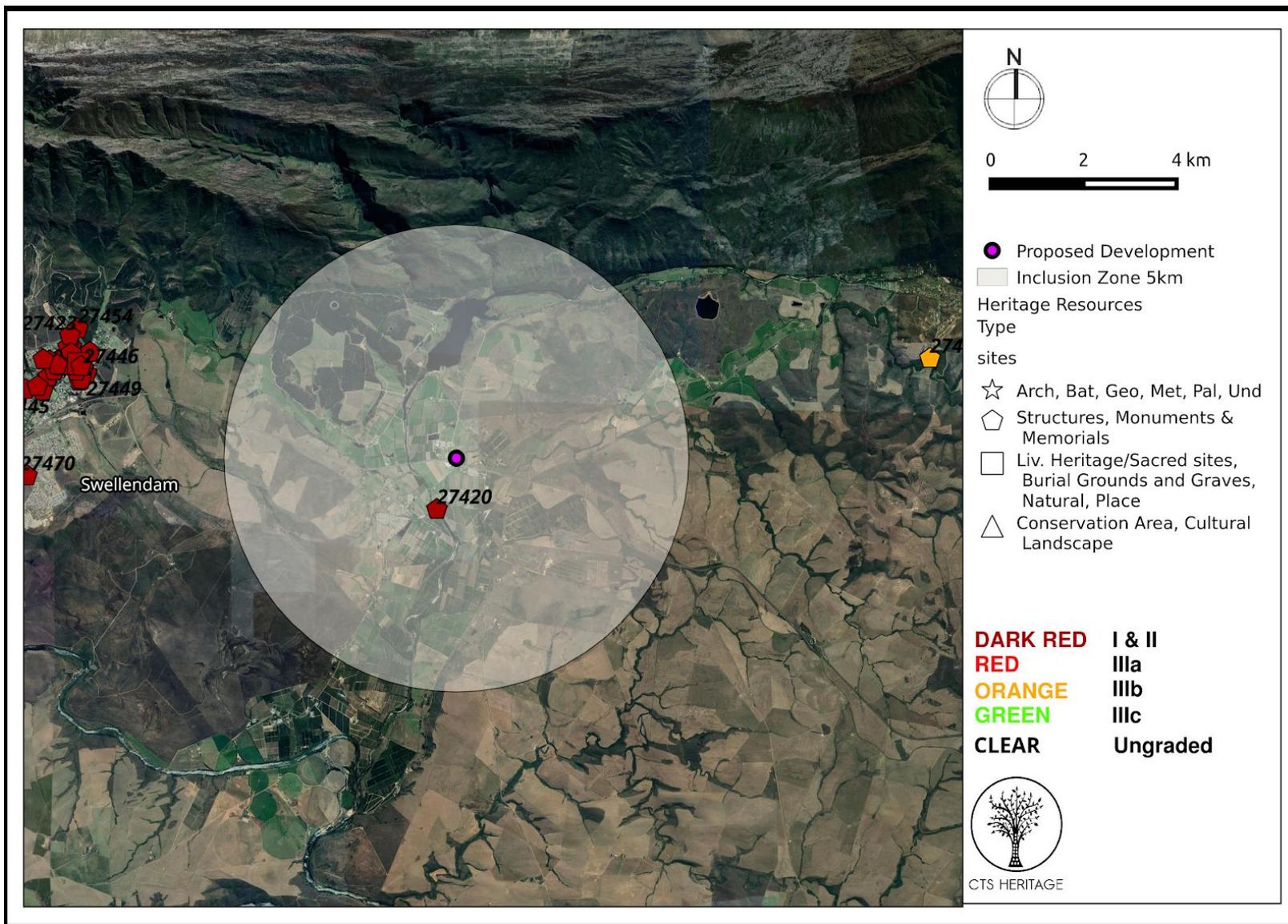
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**Figure 3. Heritage Resources Map.** Heritage Resources previously identified in and near the study area, with SAHRIS Site IDs indicated. Please See Appendix 4 for full description of heritage resource types.

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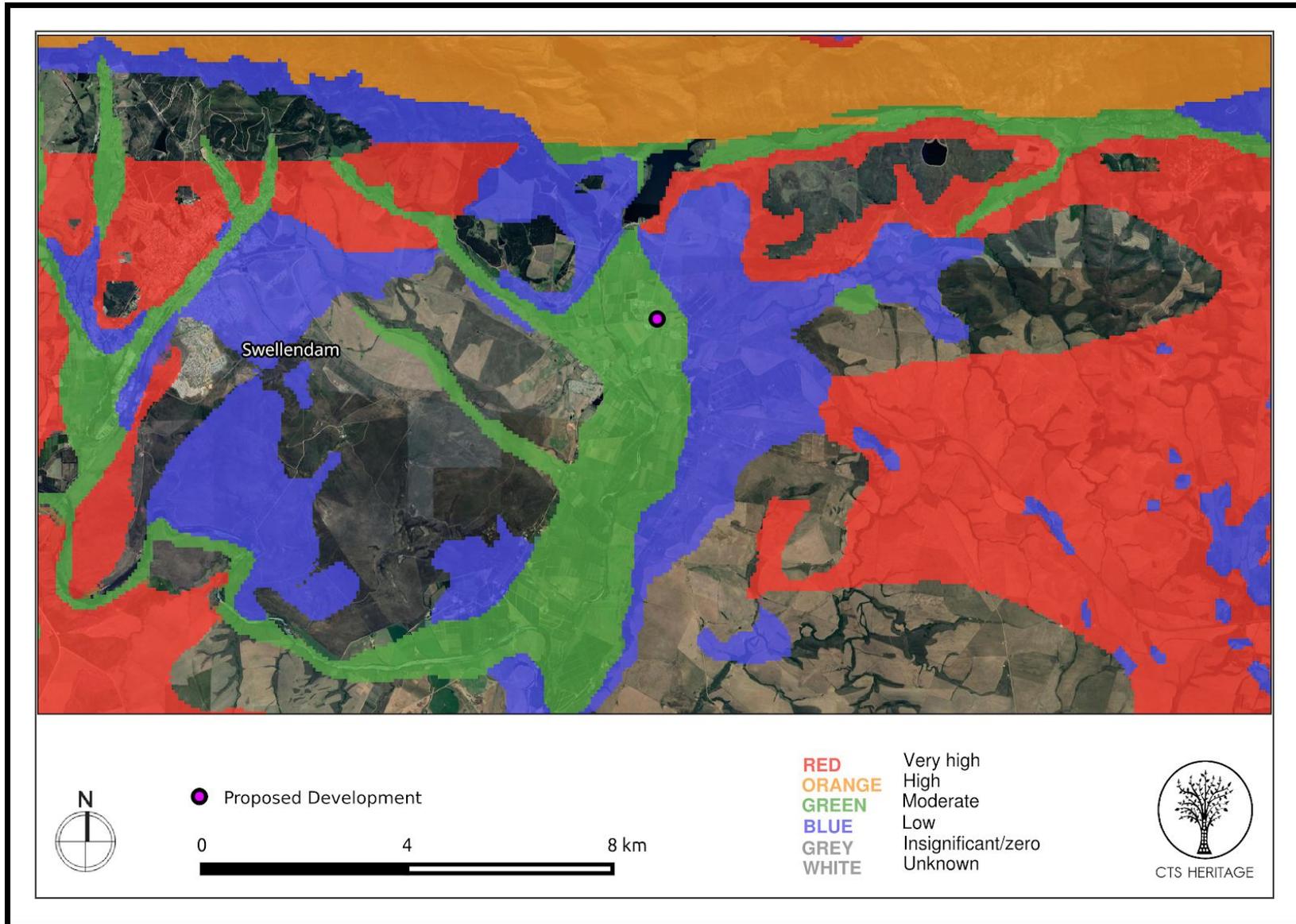


Figure 4.a. SAHRIS Palaeosensitivity Map. Indicating low to zero fossil sensitivity underlying the study area. Please See Appendix 3 for full guide to the legend.

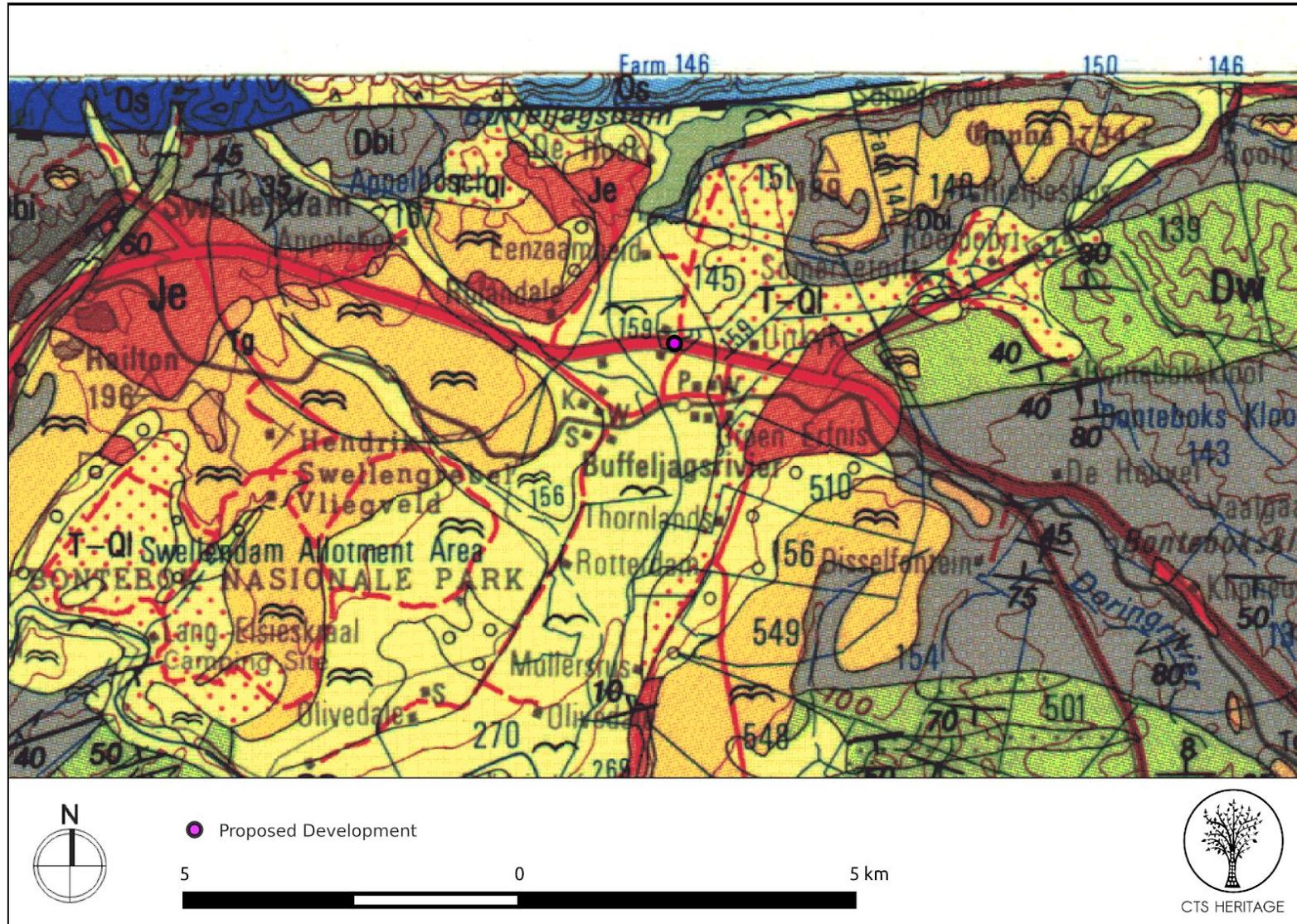
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**Figure 4b. Geology Map.** Georectified geological map extract from CGS 1:250 000 Riversdale geological map (3420). Strandveld Formation (Bredasdorp Group) (Yellow and 'm' symbol; alluvium )

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Figure 4.2. Geological Map.



Figure 5.1. General Site Context. General view of the site, looking north towards the site from the N2 (Google Street View, Nov 2010)

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**Figure 5.2. General Site Context.** General view of the site, looking east towards the site from the road that runs parallel to the western side of the property (Google Street View, Nov 2010)

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## 8. Heritage statement and character of the area

This application is for the proposed establishment of a 30m tall telecommunications mast on Farm 161, Swellendam Road, Buffeljagsrivier, Western Cape. In general the context of the proposed development area is agricultural and rural in nature, however this particular site has already been largely transformed (Figure 1c).

The presence of perennial water in this area has meant that it has been occupied since the Stone Age, first by hunter-gatherers, and, more recently, by pastoralists. The VOC began loaning land to farmers in this region in the 1700s, and it became increasingly intensively farmed for stock and, particularly wheat. Buffeljagsrivier is a small farming community established in a very fertile region of the Western Cape. A wide variety of crops are grown in the region including vegetables and citrus. The farm lands also sustain animals (milk and cheese production). The Buffeljagsrivier area has a rich history. Its name originates from the late 1800s, when Governor Hendrick Swellengrebel's son visited the area and supposedly shot the last buffalo that had been roaming on the landscape. There are a number of 'historical' farms which are frequently visited by tourists today, these include; Rotterdam, the lavender farm and Olivedale Vineyards.

Very few heritage studies have been conducted within 5km of the proposed development area (Figure 2). The nearest known heritage resource is the Grade II Buffeljachtsrivier Bridge (SiteID: 27420) which is located 2 km south-west from the proposed development site. While it is clear that archaeological material does occur in this region, the combination of long term disturbance of surfaces through intensive cultivation, and the apparent infrequency of artefactual material found on open ground, makes any discovery of *in situ*, significant archaeological heritage resources unlikely. The proposed telecommunications mast is not likely to impact on any significant heritage resources or pristine cultural landscapes.

The area proposed for the mast is underlain by sediments of moderate palaeontological sensitivity according to the SAHRIS Palaeosensitivity Map (Figure 4a). However, based on geological map (Figure 4b), the proposed development area belongs to the Strandveld Formation (Bredasdorp Group) and is composed of alluvium sediments of zero/insignificant palaeontological sensitivity. Regardless, it is unlikely that the proposed development will impact on significant palaeontological resources based on the size of its development footprint (100m<sup>2</sup>).

### **RECOMMENDATION:**

**The heritage resources in the area proposed for development are sufficiently recorded.**

**Due to the location and nature of the proposed development, it is unlikely that significant heritage resources will be impacted by the development and as such, it is recommended that no further heritage studies are required.**

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## APPENDIX 1

### List of heritage resources within the 5km Inclusion Zone

Site ID	Site no	Full Site Name	Site Type	Grading
27420	9/2/092/0060	Buffeljachtsrivier Bridge, Swellendam District	Building	Grade II

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## APPENDIX 2 Reference List

Heritage Impact Assessments				
Nid	Report Type	Author/s	Date	Title
271306	AIA (Site visit/minimal fieldwork)	Celeste Booth	20/05/2015	Archaeological And Heritage Investigation Of Proposed Deviations And Repeater Sites For An Environmental Authorisation Amendment For A section Of The Fibreco Route 3 (Graaff-reinet To Yzerfontein).

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## APPENDIX 3 - Keys/Guides

### Key/Guide to Acronyms

<b>AIA</b>	Archaeological Impact Assessment
<b>DARD</b>	Department of Agriculture and Rural Development (KwaZulu-Natal)
<b>DEA</b>	Department of Environmental Affairs (National)
<b>DEADP</b>	Department of Environmental Affairs and Development Planning (Western Cape)
<b>DEDEAT</b>	Department of Economic Development, Environmental Affairs and Tourism (Eastern Cape)
<b>DEDECT</b>	Department of Economic Development, Environment, Conservation and Tourism (North West)
<b>DEDT</b>	Department of Economic Development and Tourism (Mpumalanga)
<b>DEDTEA</b>	Department of economic Development, Tourism and Environmental Affairs (Free State)
<b>DENC</b>	Department of Environment and Nature Conservation (Northern Cape)
<b>DMR</b>	Department of Mineral Resources (National)
<b>GDARD</b>	Gauteng Department of Agriculture and Rural Development (Gauteng)
<b>HIA</b>	Heritage Impact Assessment
<b>LEDET</b>	Department of Economic Development, Environment and Tourism (Limpopo)
<b>MPRDA</b>	Mineral and Petroleum Resources Development Act, no 28 of 2002
<b>NEMA</b>	National Environmental Management Act, no 107 of 1998
<b>NHRA</b>	National Heritage Resources Act, no 25 of 1999
<b>PIA</b>	Palaeontological Impact Assessment
<b>SAHRA</b>	South African Heritage Resources Agency
<b>SAHRIS</b>	South African Heritage Resources Information System
<b>VIA</b>	Visual Impact Assessment

### Full guide to Palaeosensitivity Map legend

	<b>RED:</b>	VERY HIGH - field assessment and protocol for finds is required
	<b>ORANGE/YELLOW:</b>	HIGH - desktop study is required and based on the outcome of the desktop study, a field assessment is likely
	<b>GREEN:</b>	MODERATE - desktop study is required
	<b>BLUE/PURPLE:</b>	LOW - no palaeontological studies are required however a protocol for chance finds is required
	<b>GREY:</b>	INSIGNIFICANT/ZERO - no palaeontological studies are required
	<b>WHITE/CLEAR:</b>	UNKNOWN - these areas will require a minimum of a desktop study.

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## APPENDIX 4 - Methodology

The Heritage Screener summarises the heritage impact assessments and studies previously undertaken within the area of the proposed development and its surroundings. Heritage resources identified in these reports are assessed by our team during the screening process.

The heritage resources will be described both in terms of **type**:

- Group 1: Archaeological, Underwater, Palaeontological and Geological sites, Meteorites, and Battlefields
- Group 2: Structures, Monuments and Memorials
- Group 3: Burial Grounds and Graves, Living Heritage, Sacred and Natural sites
- Group 4: Cultural Landscapes, Conservation Areas and Scenic routes

and **significance** (Grade I, II, IIIa, b or c, ungraded), as determined by the author of the original heritage impact assessment report or by formal grading and/or protection by the heritage authorities.

Sites identified and mapped during research projects will also be considered.

### DETERMINATION OF THE EXTENT OF THE INCLUSION ZONE TO BE TAKEN INTO CONSIDERATION

The extent of the inclusion zone to be considered for the Heritage Screener will be determined by CTS based on:

- the size of the development,
- the number and outcome of previous surveys existing in the area
- the potential cumulative impact of the application.

The inclusion zone will be considered as the region within a maximum distance of 50 km from the boundary of the proposed development.

### DETERMINATION OF THE PALAEOLOGICAL SENSITIVITY

The possible impact of the proposed development on palaeontological resources is gauged by:

- reviewing the fossil sensitivity maps available on the South African Heritage Resources Information System (SAHRIS)
- considering the nature of the proposed development
- when available, taking information provided by the applicant related to the geological background of the area into account

### DETERMINATION OF THE COVERAGE RATING ASCRIBED TO A REPORT POLYGON

Each report assessed for the compilation of the Heritage Screener is colour-coded according to the level of coverage accomplished. The extent of the surveyed coverage is labeled in three categories, namely low, medium and high. In most instances the extent of the map corresponds to the extent of the development for which the specific report was undertaken.

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**Low coverage** will be used for:

- desktop studies where no field assessment of the area was undertaken;
- reports where the sites are listed and described but no GPS coordinates were provided.
- older reports with GPS coordinates with low accuracy ratings;
- reports where the entire property was mapped, but only a small/limited area was surveyed.
- uploads on the National Inventory which are not properly mapped.

**Medium coverage** will be used for

- reports for which a field survey was undertaken but the area was not extensively covered. This may apply to instances where some impediments did not allow for full coverage such as thick vegetation, etc.
- reports for which the entire property was mapped, but only a specific area was surveyed thoroughly. This is differentiated from low ratings listed above when these surveys cover up to around 50% of the property.

**High coverage** will be used for

- reports where the area highlighted in the map was extensively surveyed as shown by the GPS track coordinates. This category will also apply to permit reports.

## RECOMMENDATION GUIDE

The Heritage Screener includes a set of recommendations to the applicant based on whether an impact on heritage resources is anticipated. One of three possible recommendations is formulated:

**(1) The heritage resources in the area proposed for development are sufficiently recorded** - The surveys undertaken in the area adequately captured the heritage resources. There are no known sites which require mitigation or management plans. No further heritage work is recommended for the proposed development.

This recommendation is made when:

- enough work has been undertaken in the area
- it is the professional opinion of CTS that the area has already been assessed adequately from a heritage perspective for the type of development proposed

**(2) The heritage resources and the area proposed for development are only partially recorded** - The surveys undertaken in the area have not adequately captured the heritage resources and/or there are sites which require mitigation or management plans. Further specific heritage work is recommended for the proposed development.

This recommendation is made in instances in which there are already some studies undertaken in the area and/or in the adjacent area for the proposed development. Further studies in a limited HIA may include:

- improvement on some components of the heritage assessments already undertaken, for instance with a renewed field survey and/or with a specific specialist for the type of heritage resources expected in the area
- compilation of a report for a component of a heritage impact assessment not already undertaken in the area

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- undertaking mitigation measures requested in previous assessments/records of decision.

**(3) The heritage resources within the area proposed for the development have not been adequately surveyed yet - Few or no surveys have been undertaken in the area proposed for development. A full Heritage Impact Assessment with a detailed field component is recommended for the proposed development.**

**Note:**

The responsibility for generating a response detailing the requirements for the development lies with the heritage authority. However, since the methodology utilised for the compilation of the Heritage Screeners is thorough and consistent, contradictory outcomes to the recommendations made by CTS should rarely occur. Should a discrepancy arise, CTS will immediately take up the matter with the heritage authority to clarify the dispute.

The compilation of the Heritage Screener will not include any field assessment. The Heritage Screener will be submitted to the applicant within 24 hours from receipt of full payment. **If the 24-hour deadline is not met by CTS, the applicant will be refunded in full.**

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