

CTS HERITAGE

HERITAGE SCREENER

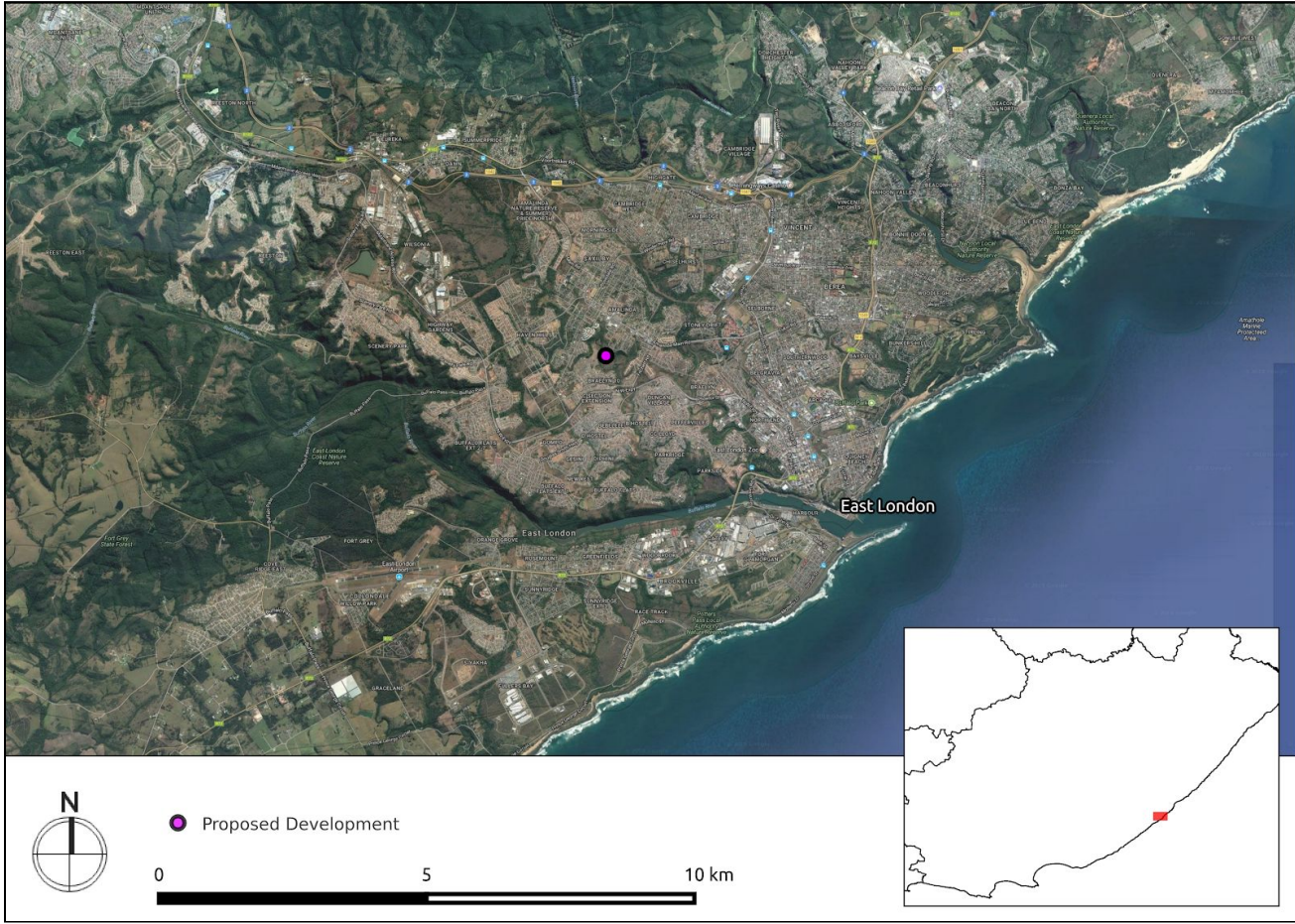
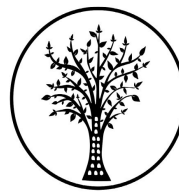
CTS Reference Number:	CTS17_169	
SAHRIS CASE ID:	12293	
Client:	Terreco Environmental	
Date:	5 March 2018	
Title:	Amalinda Downs Residential Development	
Recommendation by CTS Heritage Specialists: (Type 2)	RECOMMENDATION: The heritage resources along the routes proposed for development are only partially recorded See Section 8 for full recommendations.	

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



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1. Proposed Development Summary

The Amalinda Downs site is located in Circle Road just west of Fitchett Road, Amalinda, East London. Presently there is no development on the property. It is proposed to develop the site for 170 low-income residential erven that will be 150 square metres in size. The land is currently zoned Agricultural and will be rezoned to Residential Zone 3A. The Municipality is currently addressing the rezoning and subdivision of two erven 2370 & 2376. These erven will be sold as plots. The development will include access roads and stormwater management structures. The approximate area covered by the proposed development is 4,4 hectares.

2. Application References

Name of relevant heritage authority(s)	Eastern Cape Provincial Heritage Resources Agency
Name of decision making authority(s)	Department of Economic Development, Environmental Affairs and Tourism (Eastern Cape)

3. Property Information

Latitude / Longitude	-32.999671° / 27.865988°
Erf number / Farm number	Erven 2370 / Erven 2373
Local Municipality	Buffalo City Municipality
District Municipality	Amatole District Municipality
Previous Magisterial District	Oos-Londen / East London Magisterial District
Province	Eastern Cape
Current Use	Vacant
Current Zoning	Residential
Total Extent	5,572 ha

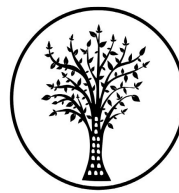
4. Nature of the Proposed Development

Total Surface Area	4,4ha
Depth of excavation (m)	NA
Height of development (m)	NA
Expected years of operation before decommission	NA

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5. Category of Development

Triggers: Section 38(8) of the National Heritage Resources Act	X
Triggers: Section 38(1) of the National Heritage Resources Act	
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 ² in extent	X
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 ²	
5. Other (state):	

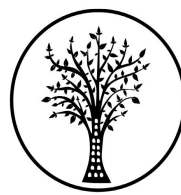
6. Additional Infrastructure Required for this Development

The development will include access roads and stormwater management structures, sewerage and water reticulation services and electrical supply.

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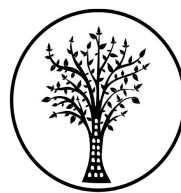


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7. Mapping (please see Appendix 3 and 4 for a full description of our methodology and map legends)



Figure 1b. Overview Map. Satellite image (2018) indicating the proposed development area at closer range.



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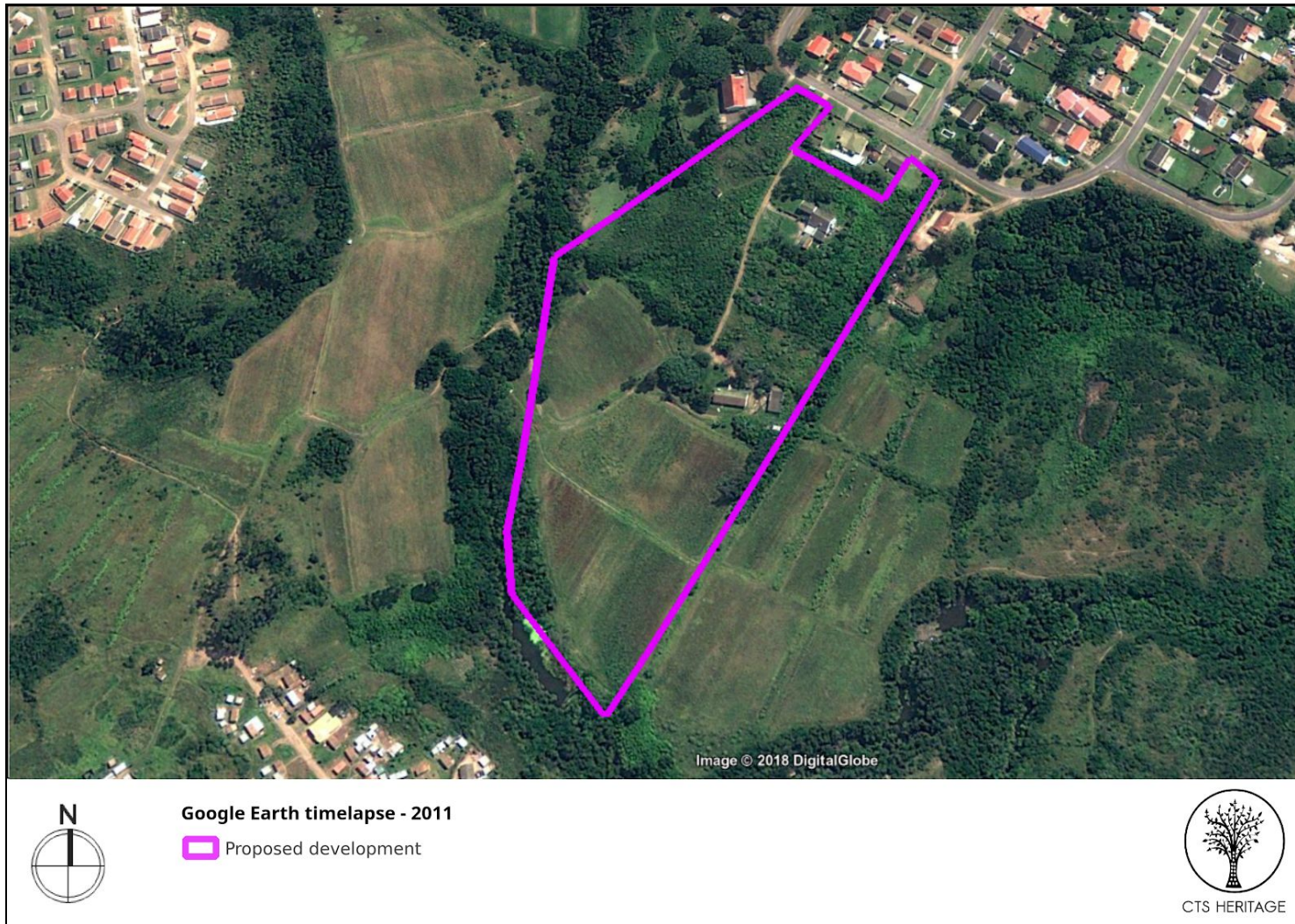
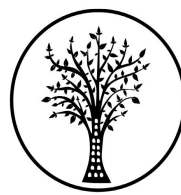


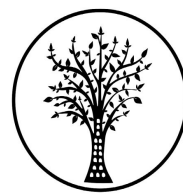
Figure 1c. Overview Map. Satellite image (2018) indicating the proposed development area at closer range.



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Figure 1d. Overview Map. Satellite image (2018) indicating the proposed development area at closer range.



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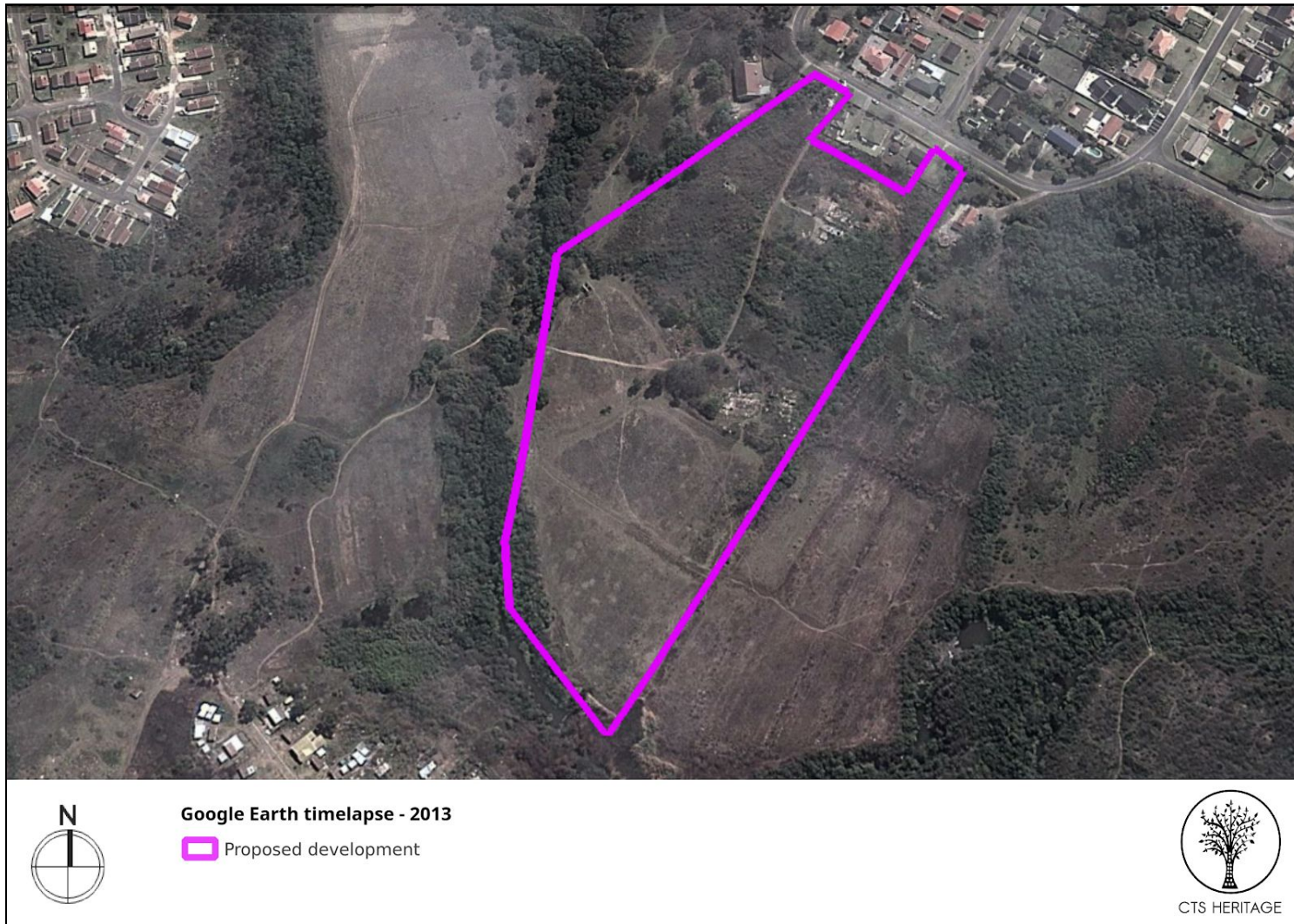


Figure 1d Overview Map. Satellite image (2018) indicating the proposed development area at closer range.

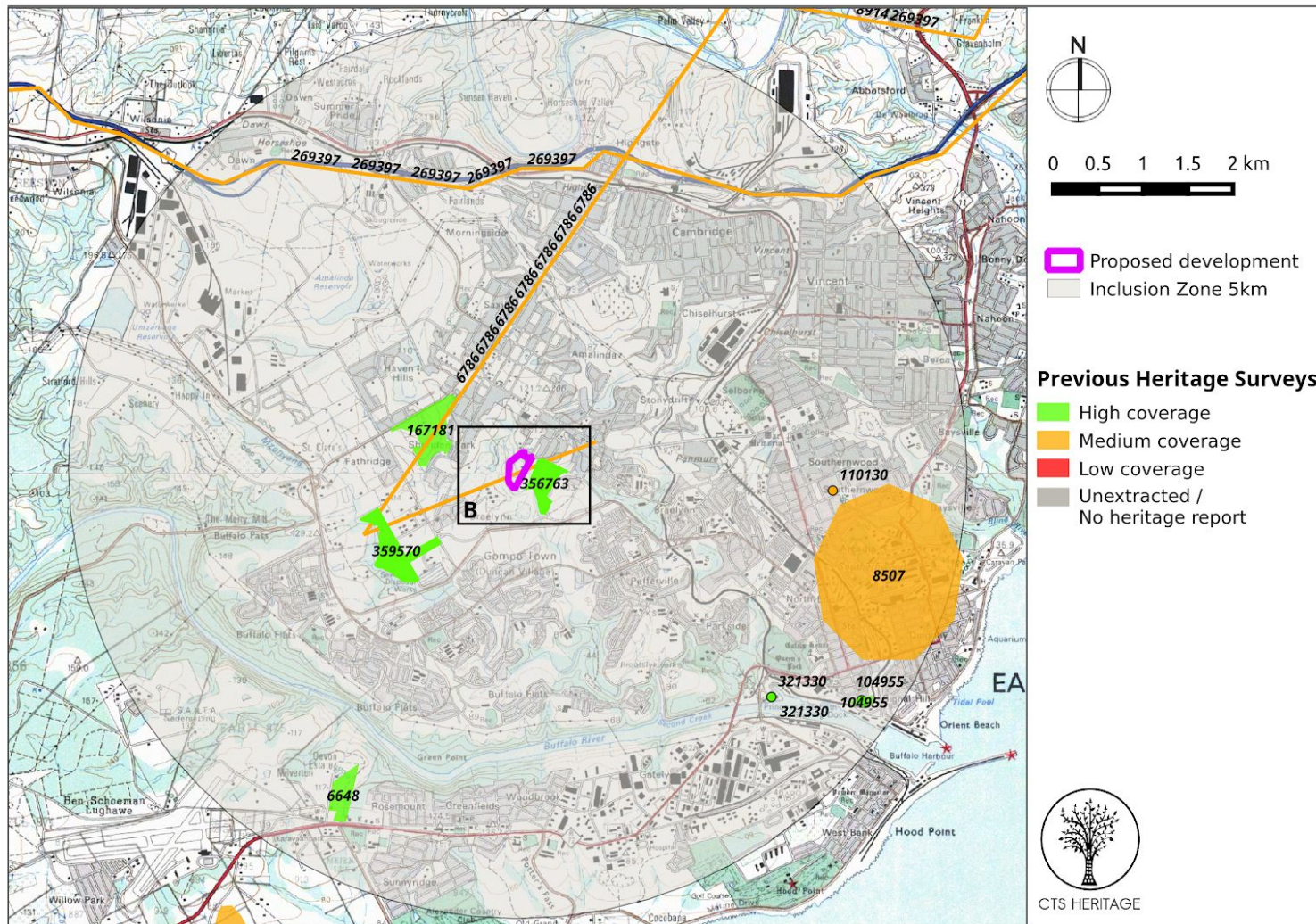
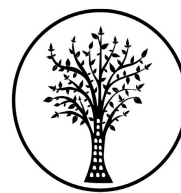
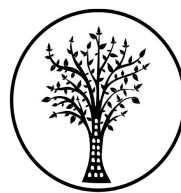


Figure 2a. Previous HIAs Map. Previous Heritage Impact Assessments surrounding the proposed development area within 5km, with SAHRIS NIDS indicated. Please see Appendix 2 for full reference list.



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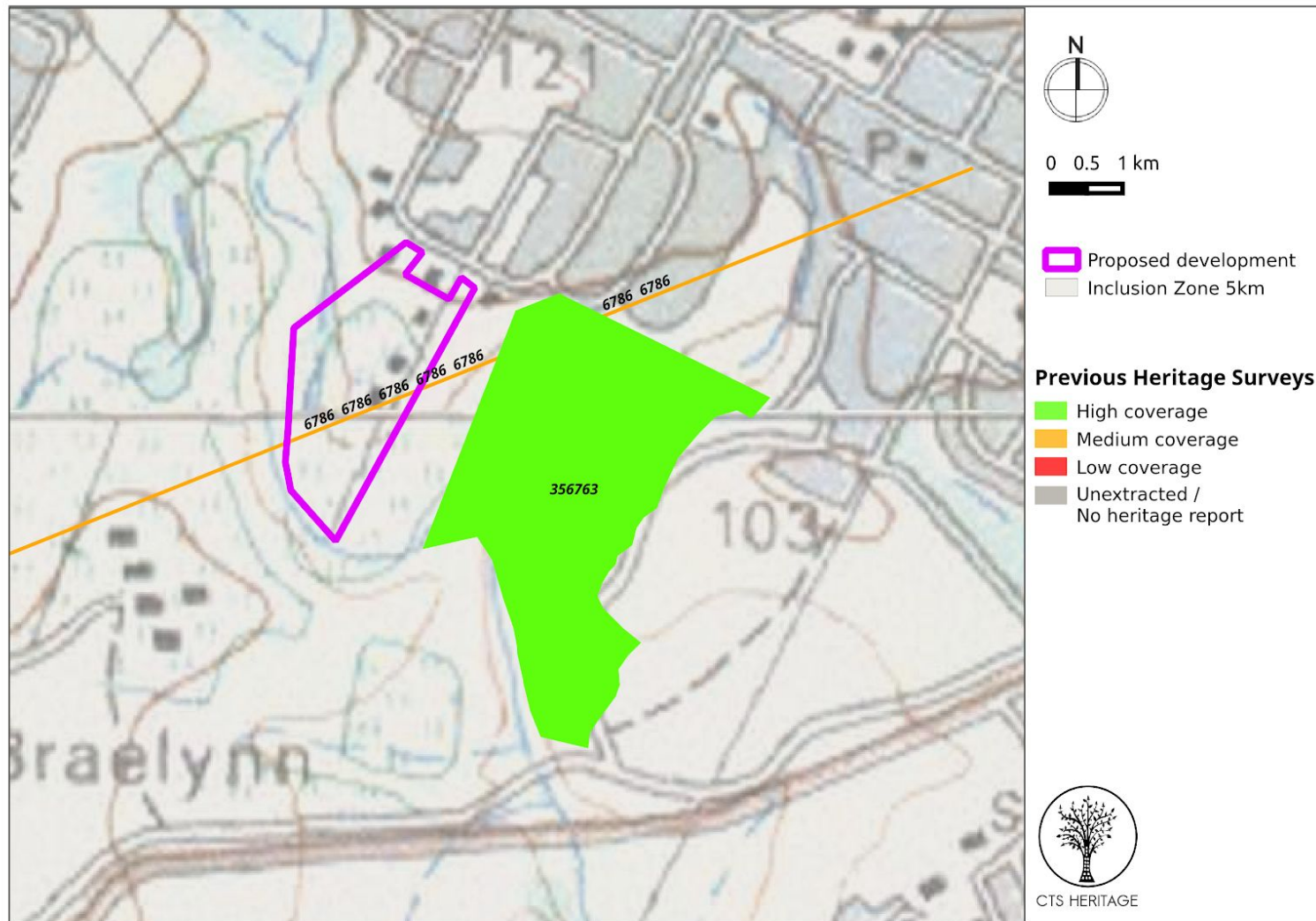
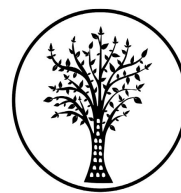


Figure 2b. Inset Map



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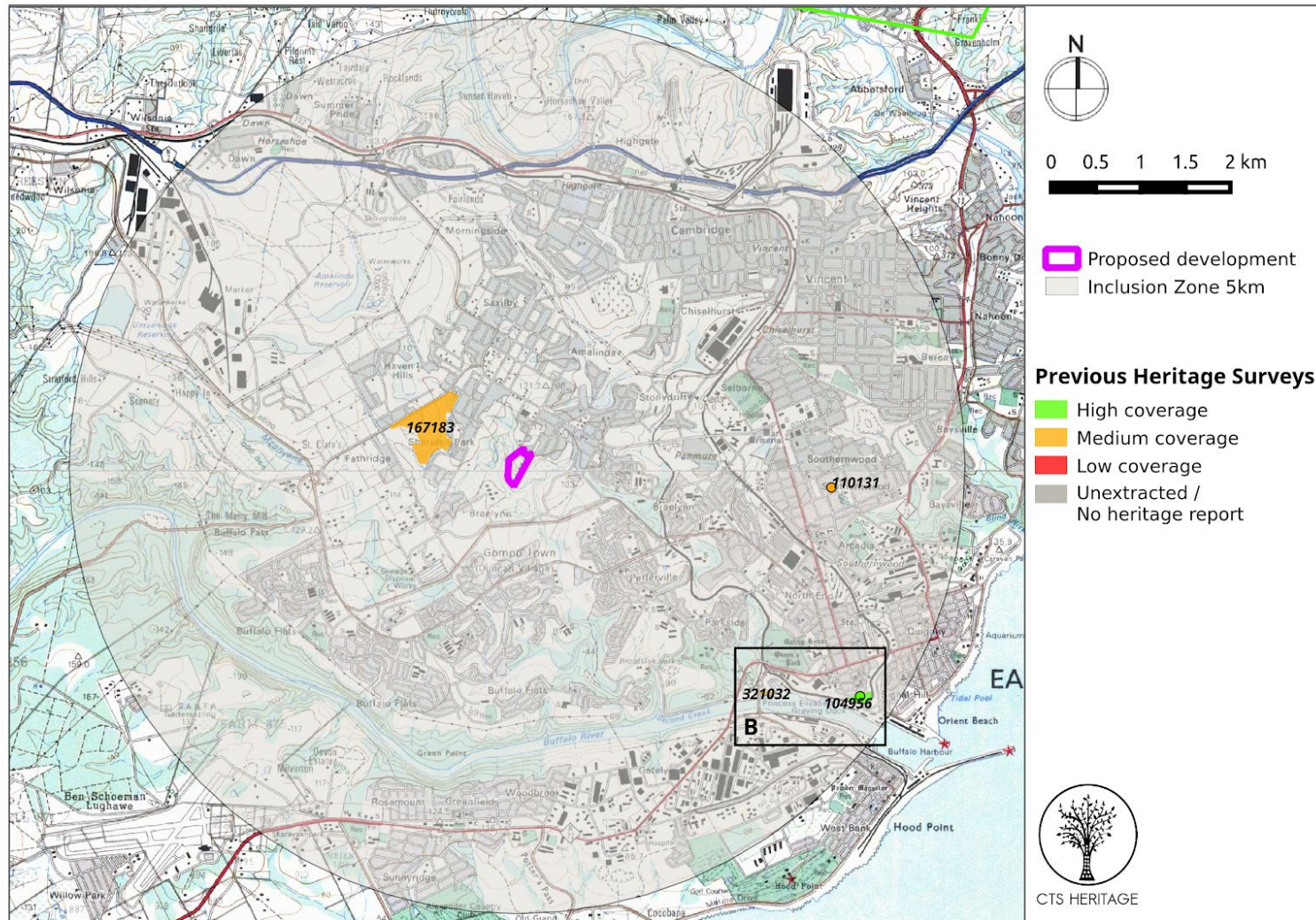


Figure 2c. Previous PIAs Map. Previous Palaeontological Impact Assessments surrounding the proposed development area within 5km, with SAHRIS NIDS indicated Please see Appendix 2 for full reference list.

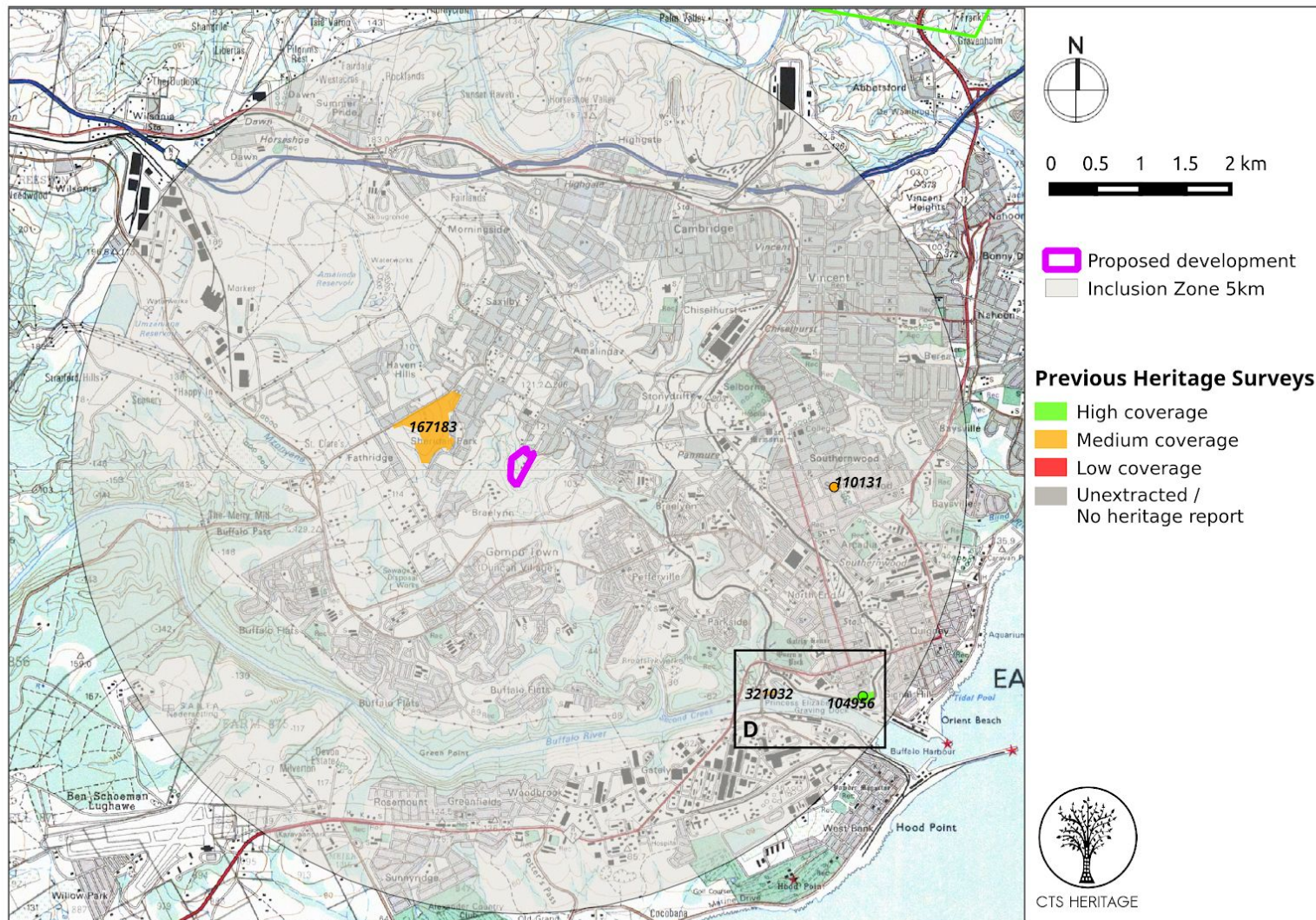
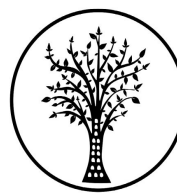
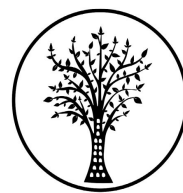


Figure 2d. Inset Map



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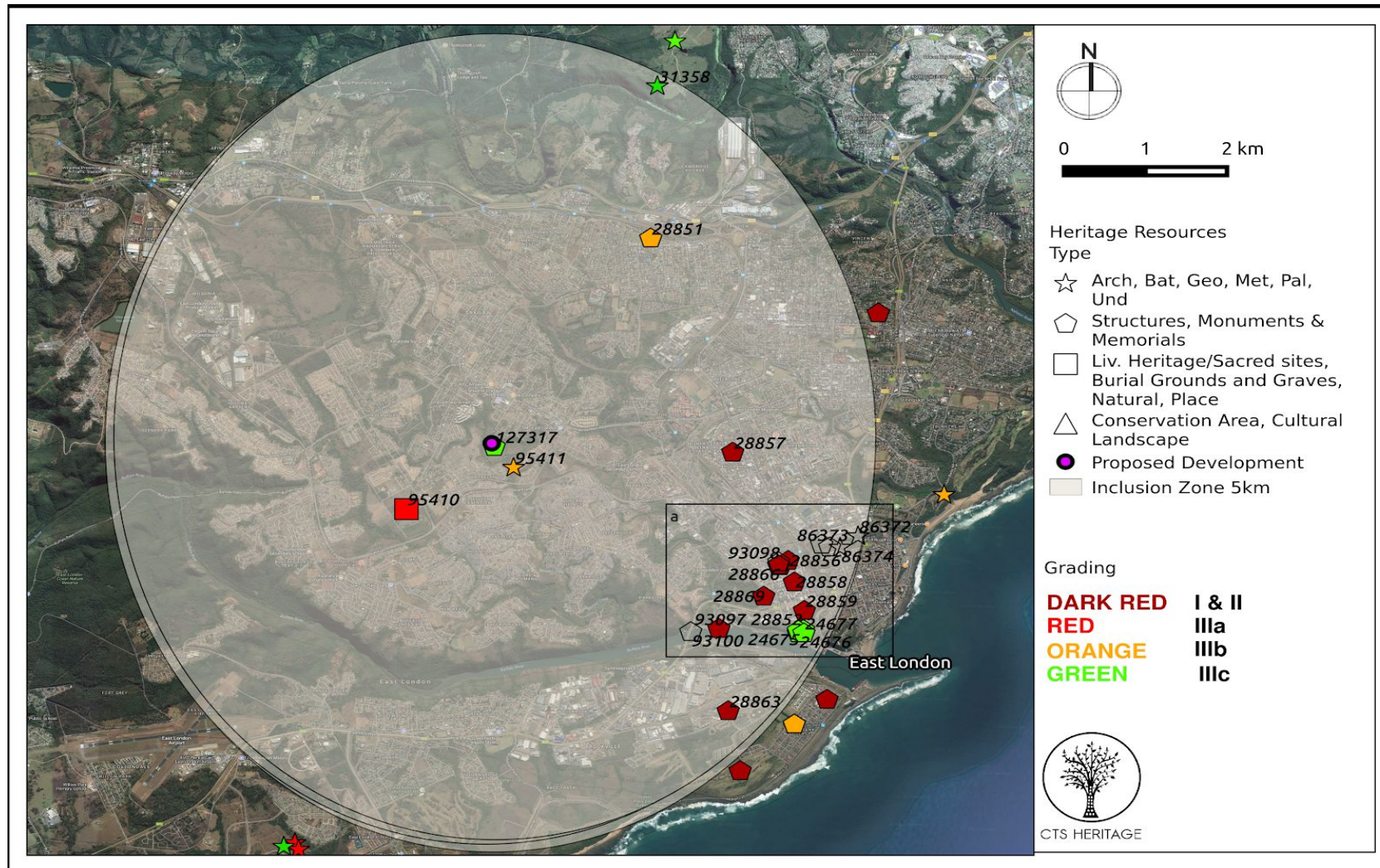
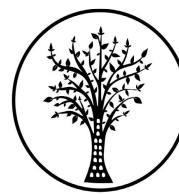


Figure 3. Heritage Resources Map. Heritage Resources previously identified in and near the study area, with SAHRIS Site IDs indicated (see Figure 3b for inset). Please See Appendix 4 for full description of heritage resource types.



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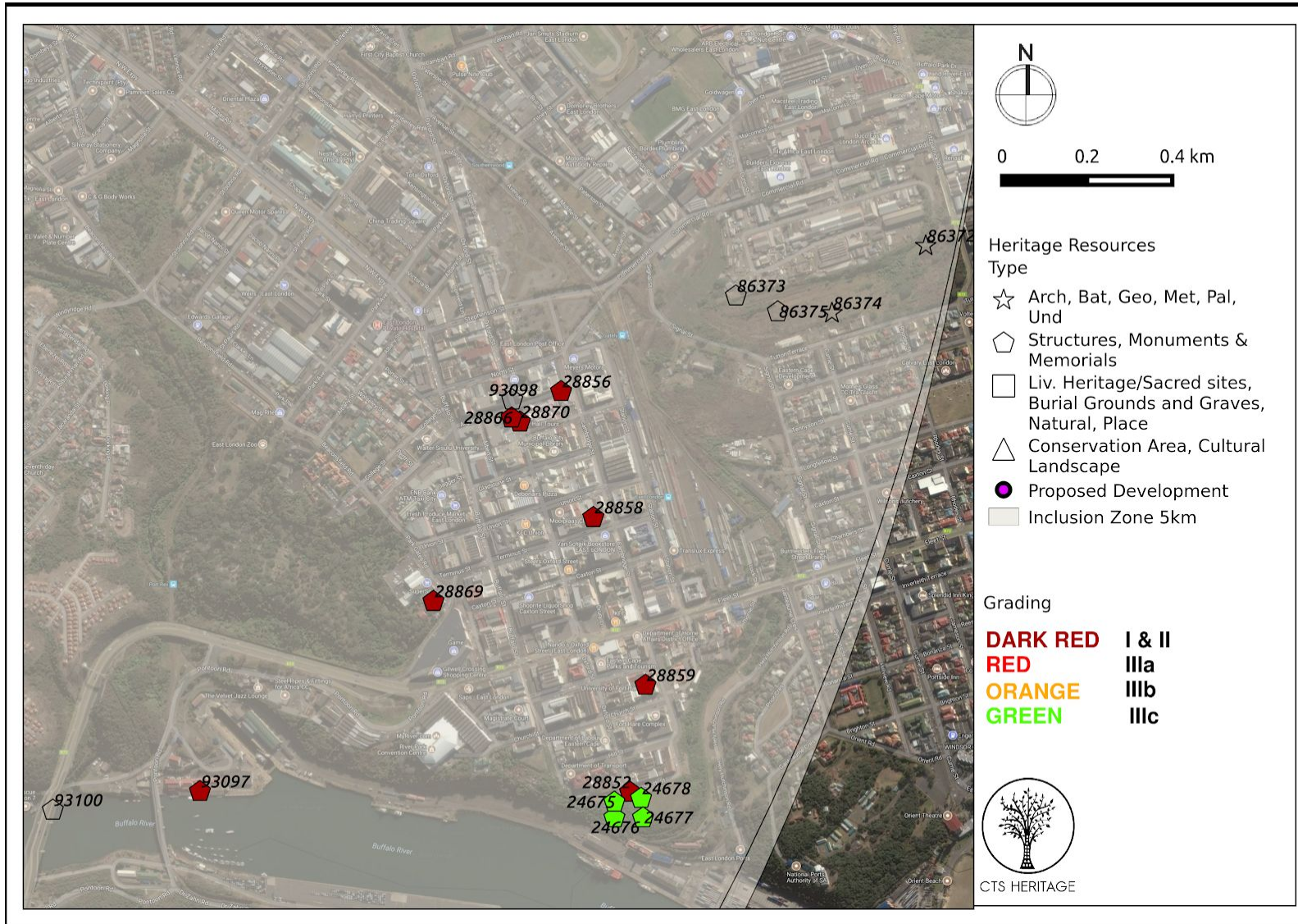
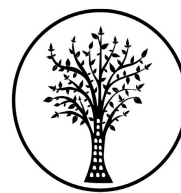


Figure 3a. Inset Map. Indicating spatial layout of sites in this region. Please see Appendix 1 for all Site IDs.



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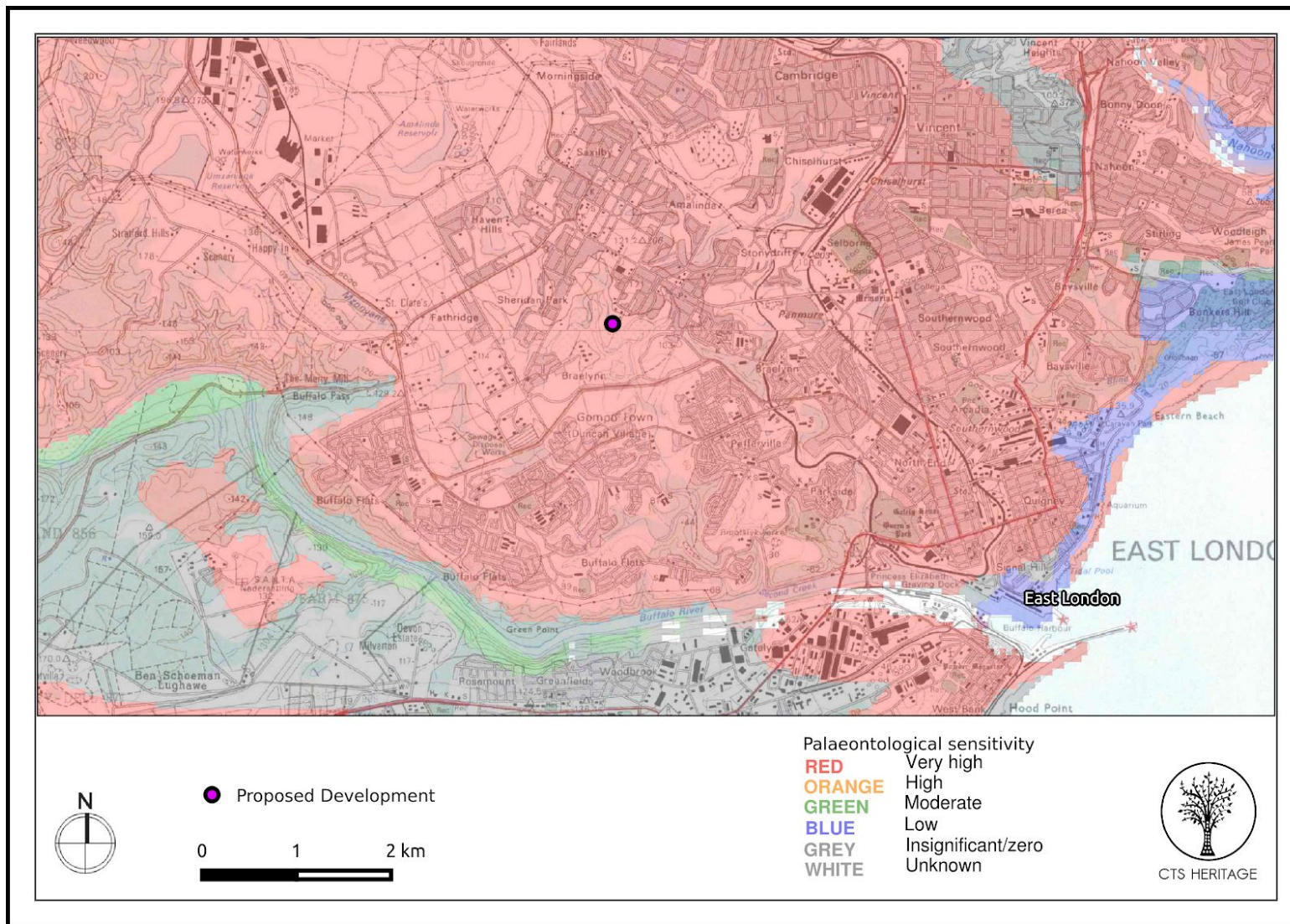
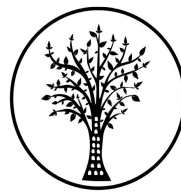


Figure 4. Palaeosensitivity Map. Indicating varied fossil sensitivity underlying the study area. Please See Appendix 3 for full guide to the legend.



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8. Heritage statement and character of the area

The Amalinda Downs site is located in Circle Road just west of Fitchett Road, Amalinda, East London. Presently there is no development on the property. It is proposed to develop the site for 170 low-income residential erven that will be 150 square metres in size. This application is for the proposed subdivision of erven 2370 and 2376. The land is currently zoned Agricultural and will be rezoned to Residential Zone 3A. These erven will be sold as plots. The development will include access roads and stormwater management structures. The approximate area covered by the proposed development is 4,4 hectares.

Several Heritage Impact Assessments (HIAs) and Archaeological Impact Assessments (AIAs) have been conducted in the vicinity, dating back to 1996 (please see Appendix 2 for full reference list). However no previous assessments have been conducted within the development location. The nearby Second Creek in the proposed development area may contain Stone Age material, although this is unlikely given the disturbed nature of the surrounding landscape. Several buildings and structures of provincial significance are located nearby (Grade II), however none of these resources will be impacted by the development. According to the 2002 Google Earth satellite map (Figure 4d), the area seems to have been used for farming and there is evidence of possible kraals and stone walling. However, in the 2015 image (Figure 4e), it can be seen that vegetation has grown densely in most areas and the northern and south-eastern portions appear to have been cleared and disturbed. Furthermore, the AIA conducted by van Ryneveld (2014) nearby for the similar development of Calypso Heights, ~ 1 km north-west, recorded no heritage resources but advised caution for the possibility of graves in the area. Van Ryneveld also conducted a field assessment for the proposed Bengal Heights development (2016 - SAHRIS NID 356764) on the neighbouring property (Figure 2a and b) in which she identified Site BHR-S1, the remains of a Later Iron Age homestead which was graded IIIB (Figure 3a). It is likely that similar archaeological resources may occur on this property.

In terms of palaeontology, the area is underlain by the Middleton Formation of the Adelaide Subgroup, Beaufort Group, which is of very high fossil sensitivity. A foot survey was undertaken by Rossouw (2014) for the Calypso Heights development, which is underlain by the same geological formation. After his site visit he concluded that the bedrock was covered by a veneer of unconsolidated clayey soil and therefore rock exposure was very poor. Since the mudrock sequences of this formation possibly contain significant fossils, a Chance Finds Procedure was called for and he stated that the "palaeontological impact will be considered high when excavations extend into fresh mudrock sequences." (2014, p6). It is therefore recommended that no PIA be conducted, but rather that a Palaeo Chance Find Procedure be included in the EMPs and that regular inspections by a palaeontologist of newly-cut mudrock within the Middleton Formation be conducted.

RECOMMENDATION:

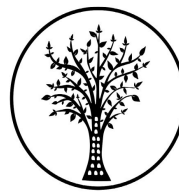
The heritage resources along the routes proposed for development are only partially recorded

Based on the available information, the proposed development is likely to impact on heritage resources and as such, it is recommended that a complete Heritage Impact Assessment is required that assesses impacts to archaeological resources.

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APPENDIX 1

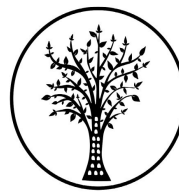
List of heritage resources within the 5km Inclusion Zone

Site ID	Site no	Full Site Name	Site Type	Grading	Declaration
24675	OHV004	Oxford Harbour View - OHV004	Archaeological, Structures	Grade IIIc	NA
24676	OHV003	Oxford Harbour View - OHV003	Structures	Grade IIIc	NA
24677	OHV002	Oxford Harbour View - OHV002	Structures	Grade IIIc	NA
24678	OHV001	Oxford Harbour View - OHV001	Archaeological, Structures	Grade IIIc	NA
28851	9/2/026/0032	Cambridge Primary School, Brabant Street, East London	Building	NA	Heritage Register
28852	9/2/026/0034	Customs and Excise Building, East London	Building	Grade II	Provincial Heritage Site
28856	9/2/026/0014	Old Public Library, Argyle Street, East London	Building	Grade II	Provincial Heritage Site
28857	9/2/026/0015	Ann Bryant Art Gallery, St Lukes Road, East London	Building	Grade II	Provincial Heritage Site
28858	9/2/026/0016	Old Standard Bank Building, 64 Terminus Street, East London	Building	Grade II	Provincial Heritage Site
28859	9/2/026/0017	Wool Exchange Building, Rhodes University, 50 Church Street, East London	Building	Grade II	Provincial Heritage Site
28863	9/2/026/0010	Old Powder Magazine, Fort Glamorgan, East London	Building	Grade II	Provincial Heritage Site
28866	9/2/026/0013	Cuthbert's Building, 110 Oxford Street, East London	Building	Grade II	Provincial Heritage Site
28869	9/2/026/0003	Gately House, 1 Park Gates Road, East London	Building	Grade II	Provincial Heritage Site
28870	9/2/026/0005	City Hall, Oxford Street, East London	Building	Grade II	Provincial Heritage Site
86372	BC001	Buffalo City 001	Deposit	Ungraded	NA
86373	BC002	Buffalo City 002	Building	Ungraded	NA
86374	BC003	Buffalo City 003	Archaeological	Ungraded	NA
86375	BC004	Buffalo City 004	Structures	Ungraded	NA
93097	Latimer's Landing jetty	Latimer's Landing jetty, East London Port	Structures	Grade II	NA
93098	Steve Biko Statue	Steve Biko Statue	Monuments & Memorials	NA	NA

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93100	Steve Biko Bridge	Steve Biko Bridge	Bridge	NA	NA
95410	HHC-S1	Heaven Hills Cemetery Site 1	Burial Grounds Graves	Grade IIIa	NA
95411	BHR-S1	Bengal Heights Residential	Settlement	Grade IIIb	NA

APPENDIX 2

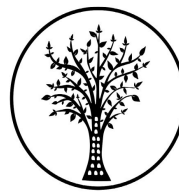
Reference List of Report for Studies within the 5km Inclusion Zone

Impact Assessment References					
Nid	Report Type	Author/s	Date	Title	
6648	AIA	Karen Van Ryneveld	18/07/2008	Phase 1 Archaeological Impact Assessment: Industrial Development, Erven 17532 & 49336, Orange Grove, East London, Eastern Cape, South Africa	
6786	HIA	Robert De Jong	06/02/2011	HERITAGE IMPACT ASSESSMENT REPORT: INSTALLATION OF LONG-HAUL DARK FIBRE DUCTING INFRASTRUCTURE ALONG THE N 2 BETWEEN DURBAN AND EAST LONDON, KWA-ZULU NATAL AND EASTERN CAPE PROVINCES	
6788	AIA	Mary Patrick, J Blackenburg	01/03/2007	Fort Glamorgan a First Phase Archaeological Investigation of Historic Graves Associated With Erf 20433 East London	
8507	HIA	Lita Webley, Gillian Vernon	30/01/2008	Phase 1 Heritage Impact Assessment: The Construction of a Dual Carriageway Linking Fitzpatrick Road and Currie Street on the "Sleepers Site", Erf 15835 Buffalo City, Eastern Cape	
104955	AIA	Karen Van Ryneveld	05/11/2012	PHASE 1 ARCHAEOLOGICAL IMPACT ASSESSMENT - OXFORD HARBOUR VIEW DEVELOPMENT, ERVEN 15833, 15834, 15835 AND 33367, EAST LONDON, EASTERN CAPE, SOUTH AFRICA	
104956	PIA	Lloyd Rossouw	03/11/2012	Phase 1 Palaeontological Impact Assessment of a proposed new conference and development center near the Port of East London, EC Province.	
110130	AIA	Karen Van Ryneveld	01/28/2013	PHASE 1 ARCHAEOLOGICAL IMPACT ASSESSMENT: WILLOWVALE-DWESA BORROW PITS PROJECT, AMATHOLE DISTRICT MUNICIPALITY, EASTERN CAPE, SOUTH AFRICA	

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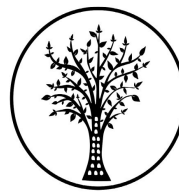
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110131	PIA	Lloyd Rossouw	01/28/2013	Phase 1 Palaeontological Impact Assessment of 2 Quarries and 6 Borrow Pits, between Willowvale and Dwesa, EC Province.
167181	AIA	Karen Van Ryneveld	30/06/2014	Phase 1 Archaeological Impact Assessment - Calypso Heights Commercial and Residential Development, off Woolwash Road, Amalinda, East London, BCMM, Eastern Cape, South Africa
167183	PIA	Lloyd Rossouw	30/06/2014	Phase 1 Palaeontological Impact Assessment - Calypso Heights Commercial and Residential Development, off Woolwash Road, Amalinda, East London, BCMM, Eastern Cape, South Africa
269397	AIA	Celeste Booth	02/03/2015	ADDENDUM: ARCHAEOLOGICAL AND HERITAGE INVESTIGATION OF PROPOSED DEVIATIONS AND REPEATER SITES FOR AN ENVIRONMENTAL AUTHORISATION AMENDMENT FOR FIBRECO ROUTE 4 (GEORGE TO PORT ELIZABETH) AND 5 (PORT ELIZABETH TO DURBAN)
321032	PIA	Lloyd Rossouw	20/07/2015	Palaeontological Impact Assessment for the Proposed Rehabilitation and Refurbishment of the existing Latimer's Landing jetty at the Port of East London (Part 1 of HIA)
321330	PIA	Lloyd Rossouw	20/07/2015	Phase 1 Archaeological Impact Assessment Report for the for the proposed rehabilitation and refurbishment of the existing Latimer's Landing jetty at the Port of East London
356763	Heritage Screener	Mariagrazia Galimberti, Kyla Bluff, Nicholas Wiltshire	11/02/2016	CTS16_010 Terreco Bengal Heights East London
359570	AIA	Karen Van Ryneveld	11/03/2016	AIA[P1]-haven Hills Cemetery Expansion, Erven 1829, 1830, 2382, 2383, 2385, 2388 and 2389, East London, Buffalo City Metropolitan Municipality, Eastern Cape
361011	AIA	Karen Van Ryneveld	01/04/2016	Phase 1 Archaeological & Cultural Heritage Impact Assessment - Proposed Bengal Heights Residential Development, Erf RE/2368, Amalinda, East London, Buffalo City Metropolitan Municipality, Eastern Cape



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APPENDIX 3 - Keys/Guides

Key/Guide to Acronyms

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

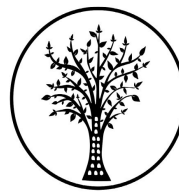
Full guide to Palaeosensitivity Map legend

RED:	VERY HIGH - field assessment and protocol for finds is required
ORANGE/YELLOW:	HIGH - desktop study is required and based on the outcome of the desktop study, a field assessment is likely
GREEN:	MODERATE - desktop study is required
BLUE/PURPLE:	LOW - no palaeontological studies are required however a protocol for chance finds is required
GREY:	INSIGNIFICANT/ZERO - no palaeontological studies are required
WHITE/CLEAR:	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 PALAEOONTOLOGICAL 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

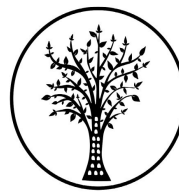
DETERMINATION OF THE COVERAGE RATING ASCRIBED TO A REPORT POLYGON

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

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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.

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:

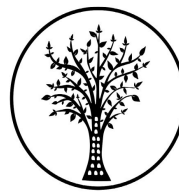
(1) The heritage resources in the area proposed for development are sufficiently recorded - The surveys undertaken in the area adequately captured the heritage resources. There are no known sites which require mitigation or management plans. No further heritage work is recommended for the proposed development.

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:



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- 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
- 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.**

CTS Heritage

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