Heritage impact survey report for the PROPOSED DEVELOPMENT ON PORTION 7 OF STRYDFONTEIN 306JR, WONDERBOOM MAGISTERIAL DISTRICT, GAUTENG PROVINCE

#### THE PROJECT:

Mixed-use development with residential and retail components

#### THIS REPORT:

HERITAGE IMPACT SURVEY REPORT FOR THE PROPOSED DEVELOPMENT ON PORTION 7 OF STRYDFONTEIN 306JR, WONDERBOOM MAGISTERIAL DISTRICT, GAUTENG PROVINCE

Report No:	2009/JvS/004		
Status:	Final		
Revision No:	0		
Date:	January 2009		

Prepared for:Bokamoso Landscape ArchitectsRepresentative:Ms L Gregory

Postal Address:	P O Box 11375, MAROELANA, 0161
Tel:	012 346 3810
E-mail:	Lizelleg@mweb.co.za

#### Prepared by:

J van Schalkwyk (D Litt et Phil), Heritage Consultant ASAPA Registration No.: 168 Principal Investigator: Iron Age, Colonial Period, Industrial Heritage

Postal Address:	62 Coetzer Avenue, Monument Park, 0181
Mobile:	076 790 6777
Fax:	012 347 7270
E-mail:	jvschalkwyk@mweb.co.za

#### EXECUTIVE SUMMARY

# HERITAGE IMPACT SURVEY REPORT FOR THE PROPOSED DEVELOPMENT ON PORTION 7 OF STRYDFONTEIN 306JR, WONDERBOOM MAGISTERIAL DISTRICT, GAUTENG PROVINCE

Development is planned for Portion 7 of the farm Strydfontein 306JR located north of Pretoria. This involves a mixed-use development with residential and retail components.

An independent heritage consultant was appointed by **Bokamoso Landscape Architects** to conduct a survey to locate, identify, evaluate and document sites, objects and structures of cultural importance found within the boundaries of the area where the different types of development is to take place.

This HIA report forms part of the Environmental Impact Assessment (EIA) as required by the EIA Regulations in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) and was done in accordance with Section 38 of the National Heritage Resources Act, No. 25 of 1999 and is intended for submission to the South African Heritage Resources Agency (SAHRA).

Although some sites are known to occur in the larger region, especially in the Magaliesberg to the south and the norite koppies to the north, no sites, features or objects of cultural significance were identified in the study area during the survey. Based on what was found and its evaluation, it is recommended that any development can continue, on condition of acceptance of the following recommendations:

• If construction takes place and archaeological sites are exposed, it should immediately be reported to a museum, preferably one at which an archaeologist is available, so that an investigation and evaluation of the finds can be made.

J A van Schalkwyk Heritage Consultant

# TECHNICAL SUMMARY

Property details						
Province	Gau	teng				
Magisterial district	Wor	nderboom				
Topo-cadastral map	2528	BCA				
Closest town	Pret	oria				
Farm name & no.	Stry	Strydfontein 306JR				
Portions/Holdings	7	7				
Average altitude						
Coordinates	Poly	gon				
	No	Latitude	Longitude	No	Latitude	Longitude
	1	S 25.63744	E 28.05635	3	S 25.64364	S 28.06183
	2	S 25.64357	E 28.05635	4	E 25.63747	E 28.06153

Development criteria in terms of Section 38(1) of the NHR Act	Yes/No
Construction of road, wall, power line, pipeline, canal or other linear	
form of development or barrier exceeding 300m in length	
Construction of bridge or similar structure exceeding 50m in length	
Development exceeding 5000 sq m	Yes
Development involving three or more existing erven or subdivisions	Yes
Development involving three or more erven or divisions that have been	
consolidated within past five years	
Rezoning of site exceeding 10 000 sq m	Yes
Any other development category, public open space, squares, parks,	
recreation grounds	

Development	
Description	A mixed-use development with residential and retail components.
Project name	Strydfontein Portion 7

Land use	
Previous land use	Agriculture
Current land use	Small holdings

Heritage sites assessment				
Site type Site significance		Site grading (Section 7 of NHRA)		
None				
Impact assessme	ent			
Impact	Mitigation	Permits required		
None		None		

# TABLE OF CONTENTS

Pa	age
EXECUTIVE SUMMARY	11
TECHNICAL SUMMARY	. 111
TABLE OF CONTENTS	.IV
LIST OF FIGURES	.IV
GLOSSARY OF TERMS AND ABBREVIATIONS	V
1. INTRODUCTION	1
2. TERMS OF REFERENCE	1
3. DEFINITIONS AND ASSUMPTIONS	1
4. STUDY APPROACH AND METHODOLOGY	2
5. DESCRIPTION OF THE AFFECTED ENVIRONMENT	3
6. SITE SIGNIFICANCE AND ASSESSMENT	4
7. IDENTIFICATION OF RISK SOURCES	5
8. RECOMMENDED MANAGEMENT MEASURES	5
9. RECOMMENDATIONS	6
10. REFERENCES	7
APPENDIX 1: CONVENTIONS USED TO ASSESS THE IMPACT OF PROJECTS ON HERITAGE RESOURCES	8
APPENDIX 2. RELEVANT LEGISLATION	.10
APPENDIX 3: SURVEY RESULTS	.12
APPENDIX 4: ILLUSTRATIONS	.13

### LIST OF FIGURES

	Page
Fig. 1. The study area, indicated by a white square, in regional context	3
Fig. 2. Location of the study area	12
Fig. 3. Northern side of the study area	13
Fig. 4. Southern section of the study area.	13

#### **GLOSSARY OF TERMS AND ABBREVIATIONS**

**Study area:** Refers to the entire study area as indicated by the client in the accompanying Fig. 1.

**Stone Age:** The first and longest part of human history is the Stone Age, which began with the appearance of early humans between 3-2 million years ago. Stone Age people were hunters, gatherers and scavengers who did not live in permanently settled communities. Their stone tools preserve well and are found in most places in South Africa and elsewhere.

Early Stone Age	2 000 000 - 150 000 Before Present
Middle Stone Age	150 000 - 30 000 BP
Late Stone Age	30 000 - until c. AD 200

**Iron Age:** Period covering the last 1800 years, when new people brought a new way of life to southern Africa. They established settled villages, cultivated domestic crops such as sorghum, millet and beans, and they herded cattle as well as sheep and goats. These people, according to archaeological evidence, spoke early variations of the Bantu Language. Because they produced their own iron tools, archaeologists call this the Iron Age.

Early Iron Age	Ŭ A	D 2	200 - AD	900
Middle Iron Age	A	DS	900 - AD	1300
Late Iron Age	A	D 1:	300 - AD	1830

**Historical Period**: Since the arrival of the white settlers - c. AD 1840  $\,$  - in this part of the country

# LIST OF ABBREVIATIONS

ADRC ASAPA EIA ESA LIA	Archaeological Data Recording Centre Association of Southern African Professional Archaeologists Early Iron Age Early Stone Age Late Iron Age
LSA	Later Stone Age
MSA	Middle Stone Age
NHRA	National Heritage Resources Act
PHRA	Provincial Heritage Resources Agency
SAHRA	South African Heritage Resources Agency

#### HERITAGE IMPACT SURVEY REPORT FOR THE PROPOSED DEVELOPMENT ON PORTION 7 OF STRYDFONTEIN 306JR, WONDERBOOM MAGISTERIAL DISTRICT, GAUTENG PROVINCE

#### 1. INTRODUCTION

Development is planned for Portion 7 of the farm Strydfontein 306JR located north of Pretoria. This involves a mixed-use development with residential and retail components.

An independent heritage consultant was appointed by **Bokamoso Landscape Architects** to conduct a survey to locate, identify, evaluate and document sites, objects and structures of cultural importance found within the boundaries of the area where the different types of development is to take place.

This HIA report forms part of the Environmental Impact Assessment (EIA) as required by the EIA Regulations in terms of the National Environmental Management Act, 1998 (Act No. 107 of 1998) and was done in accordance with Section 38 of the National Heritage Resources Act, No. 25 of 1999 and is intended for submission to the South African Heritage Resources Agency (SAHRA).

#### 2. TERMS OF REFERENCE

The scope of work consisted of conducting a Phase 1 archaeological survey of the site in accordance with the requirements of Section 38(3) of the National Heritage Resources Act (Act 25 of 1999).

This include:

- Conducting a desk-top investigation of the area
- A visit to the proposed development site

The objectives were to

- Identify possible archaeological, cultural and historic sites within the proposed development areas;
- Evaluate the potential impacts of construction, operation and maintenance of the proposed development on archaeological, cultural and historical resources;
- Recommend mitigation measures to ameliorate any negative impacts on areas of archaeological, cultural or historical importance.

#### 3. DEFINITIONS AND ASSUMPTIONS

The following aspects have a direct bearing on the survey and the resulting report:

• *Cultural resources* are all non-physical and physical human-made occurrences, as well as natural occurrences that are associated with human activity. These include all sites, structures and artefacts of importance, either individually or in groups, in the history, architecture and archaeology of human (cultural) development.

- The *significance* of the sites and artefacts are determined by means of their historical, social, aesthetic, technological and scientific value in relation to their uniqueness, condition of preservation and research potential. It must be kept in mind that the various aspects are not mutually exclusive, and that the evaluation of any site is done with reference to any number of these.
- Sites regarded as having low significance have already been recorded in full and require no further mitigation. Sites with medium to high significance require further mitigation.
- The latitude and longitude of archaeological sites are to be treated as sensitive information by the developer and should not be disclosed to members of the public.

#### 4. STUDY APPROACH AND METHODOLOGY

#### 4.1 Extent of the Study

This survey and impact assessment covers the area as presented in Section 5 and as illustrated in Figure 1 - 3.

#### 4.2 Methodology

#### 4.2.1 Preliminary investigation

#### 4.2.1.1 Survey of the literature

A survey of the relevant literature was conducted with the aim of reviewing the previous research done and determining the potential of the area. In this regard, various anthropological, archaeological and historical sources were consulted - see the list of references below.

#### 4.2.1.2 Data bases

The Heritage Atlas Database, the Environmental Potential Atlas and the National Archives of South Africa were consulted.

#### 4.2.1.3 Other sources

Aerial photographs and topocadastral and other maps were also studied - see the list of references below.

#### 4.2.2 Field survey

The field survey was done according to generally accepted archaeological practices, and was aimed at locating all possible sites, objects and structures. The area that had to be investigated, was identified by **Bokamoso** by means of maps. The area was investigated by walking across it in a number of transects. Special attention was given to topographical occurrences such as trenches, holes, outcrops and clusters of trees were investigated.

An interview was conducted with Mr S.A. Verheem, owner of the property. He confirmed that there are no graves or other features of heritage significance on the property.

#### 4.2.3 Documentation

All sites, objects and structures that are identified are documented according to the general minimum standards accepted by the archaeological profession. Coordinates of individual localities are determined by means of the *Global Positioning System* (GPS)<sup>1</sup> and plotted on a map. This information is added to the description in order to facilitate the identification of each locality.

Map datum used: Hartebeeshoek 94 (WGS84).

#### 4.3 Limitations

In some areas the grass cover was high and very dense, which limited archaeological visibility.

#### 5. DESCRIPTION OF THE AFFECTED ENVIRONMENT

#### 5.1 Site location

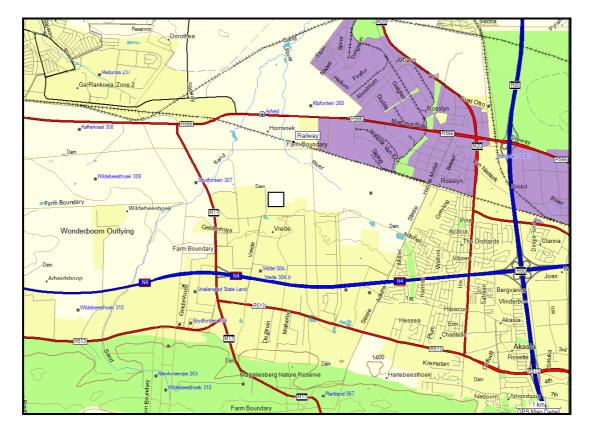


Fig. 1. The study area, indicated by a white square, in regional context. (Map: Garmin Mapsource.)

<sup>&</sup>lt;sup>1</sup> According to the manufacturer a certain deviation may be expected for each reading. Care was, however, taken to obtain as accurate a reading as possible, and then to correlate it with reference to the physical environment before plotting it on the map.

The study area consists of Portions 7 of the farm Strydfontein 306JR in the Wonderboom magisterial district of Gauteng Province (see Fig. 1). For more detail, please see the Technical Summary presented above.

#### 5.2 Site description

The geology is made up of gabbro and the original vegetation is classified as Clay Thorn Bushveld. No features (e.g. hills, outcrops, streams or rock shelters) that usually drew people to settle in its vicinity, occurs in the study area. Past land use activities was farming, mostly grazing.

#### 5.3 Survey results

#### 5.3.1 Stone Age

No sites, features or objects of heritage significance dating to the Stone Age were identified in the study area.

#### 5.3.2 Iron Age

No sites, features or objects of heritage significance dating to the Iron Age were identified in the study area.

#### 5.3.3 Historic period

No sites, features or objects of heritage significance dating to the historic period were identified in the study area.

#### 6. SITE SIGNIFICANCE AND ASSESSMENT

#### 6.1 Statement of significance

According to the NHR Act, Section 2(vi), the **significance** of heritage sites and artefacts is determined by it aesthetic, architectural, historical, scientific, social, spiritual, linguistic or technical value in relation to the uniqueness, condition of preservation and research potential. It must be kept in mind that the various aspects are not mutually exclusive, and that the evaluation of any site is done with reference to any number of these.

Sites regarded as having low significance are viewed as been recorded in full after identification and would require no further mitigation. Sites with a medium to high significance would require mitigation. Mitigation, in most cases the excavation of a site, is in essence destructive and therefore the impact can be viewed as high and as permanent.

#### No sites, features or objects of cultural significance were identified in the study area.

#### 6.2 Impact assessment

Impact analysis of cultural heritage resources under threat of the proposed development, are based on the present understanding of the development.

• As no sites, features or object of cultural significance were identified in the study area, there would be no impact resulting from the proposed development.

#### 7. IDENTIFICATION OF RISK SOURCES

A Heritage Impact Assessment is focused on two phases of a proposed development: **the construction** and **operation phases**. The following project actions may impact negatively on archaeological sites and other features of cultural importance. The actions are most likely to occur during the construction phase of a project.

#### **Construction phase:**

Possible Risks	Source of the risk	
Actually identified risks		
- damage to sites	Construction work	
Anticipated risks		
- looting of sites	Curious workers	

#### **Operation phase:**

Possible Risks	Source of the risk
Actually identified risks	
- damage to sites	Not keeping to management plans
Anticipated risks	
- damage to sites	Unscheduled construction/developments
- looting of sites	Visitors removing objects as keepsakes

#### 8. RECOMMENDED MANAGEMENT MEASURES

Heritage sites are fixed features in the environment, occurring within specific spatial confines. Any impact upon them is permanent and non-reversible. Those resources that cannot be avoided and that are directly impacted by the development can be excavated/recorded and a management plan can be developed for future action. Those sites that are not impacted on can be written into the management plan, whence they can be avoided or cared for in the future.

#### 8.1 Objectives

- Protection of archaeological, historical and any other site or land considered being of cultural value within the project boundary against vandalism, destruction and theft.
- The preservation and appropriate management of new discoveries in accordance with the National Heritage Resources Act (Act No. 25 of 1999), should these be discovered during construction.

#### 8.2.1 Construction phase

General management objectives and commitments:

- To avoid disturbing sites of heritage importance; and
- To avoid disturbing burial sites.

The following shall apply:

• Known sites should be clearly marked in order that they can be avoided during construction activities.

- The contractors and workers should be notified that archaeological sites might be exposed during the construction work.
- Should any heritage artefacts be exposed during excavation, work on the area where the artefacts were discovered, shall cease immediately and the Environmental Control Officer shall be notified as soon as possible;
- All discoveries shall be reported immediately to a museum, preferably one at which an archaeologist is available, so that an investigation and evaluation of the finds can be made. Acting upon advice from these specialists, the Environmental Control Officer will advise the necessary actions to be taken;
- Under no circumstances shall any artefacts be removed, destroyed or interfered with by anyone on the site; and
- Contractors and workers shall be advised of the penalties associated with the unlawful removal of cultural, historical, archaeological or palaeontological artefacts, as set out in the National Heritage Resources Act (Act No. 25 of 1999), Section 51. (1).

#### 9. RECOMMENDATIONS

A survey was conducted to locate, identify, evaluate and document sites, features and objects of cultural significance found within the boundaries of an area in which a mixed-use development with residential and retail components is t o take place.

Although some sites are known to occur in the larger region, especially in the Magaliesberg to the south and the norite koppies to the north, no sites, features or objects of cultural significance were identified in the study area during the survey. Based on what was found and its evaluation, it is recommended that any development can continue, on condition of acceptance of the following recommendations:

• If construction takes place and archaeological sites are exposed, it should immediately be reported to a museum, preferably one at which an archaeologist is available, so that an investigation and evaluation of the finds can be made.

#### **10. REFERENCES**

#### 10.1 Data bases

Chief Surveyor General

Environmental Potential Atlas, Department of Environmental Affairs and Tourism.

Heritage Atlas Database, Pretoria.

National Archives of South Africa

#### 10.2 Literature

Acocks, J.P.H. 1975. *Veld Types of South Africa*. Memoirs of the Botanical Survey of South Africa, No. 40. Pretoria: Botanical Research Institute.

Holm, S.E. 1966. *Bibliography of South African Pre- and Protohistoric archaeology*. Pretoria: J.L. van Schaik.

Mason, R.J. 1962. *Prehistory of the Transvaal.* Johannesburg: Witwatersrand University Press.

Van Schalkwyk, J.A. 2004. 'n Opname van kultuurhulpbronne in die Akasia-munisipale gebied. Ongepubliseerde verslag 1994KH01. Pretoria: Nasionale Kultuurhitoriese Museum.

Van Schalkwyk, J.A. 2008. *Heritage impact survey report for the planned housing development on various Portions of the farm Strydfontein 306JR, Gauteng Province*. Pretoria: Unpublished report 2008/JvS/064.

#### 10.3 Maps

1: 50 000 Topocadastral maps – 2528CA

# APPENDIX 1: CONVENTIONS USED TO ASSESS THE IMPACT OF PROJECTS ON HERITAGE RESOURCES

#### Significance

According to the NHRA, Section 2(vi) the **significance** of a heritage sites and artefacts is determined by it aesthetic, architectural, historical, scientific, social, spiritual, linguistic or technical value in relation to the uniqueness, condition of preservation and research potential. It must be kept in mind that the various aspects are not mutually exclusive, and that the evaluation of any site is done with reference to any number of these.

Matrix used for assessing the significance of each identified site/feature

1. Historic value					
Is it important in the community, or pattern of history					
Does it have strong or special association with the life or w	ork of a pe	erson,			
group or organisation of importance in history					
Does it have significance relating to the history of slavery					
2. Aesthetic value					
It is important in exhibiting particular aesthetic characterist	ics valued	by a			
community or cultural group		-			
3. Scientific value					
Does it have potential to yield information that will c	ontribute t	o an			
understanding of natural or cultural heritage					
Is it important in demonstrating a high degree of creat	ive or tecl	hnical			
achievement at a					
particular period					
4. Social value					
Does it have strong or special association with a particula	ar commun	ity or			
cultural group for social, cultural or spiritual reasons					
5. Rarity					
Does it possess uncommon, rare or endangered aspects of r	natural or cu	ultural			
heritage					
6. Representivity					
Is it important in demonstrating the principal characteristics	s of a part	ticular			
	class of natural or cultural places or objects				
Importance in demonstrating the principal characteristics of a range of					
landscapes or environments, the attributes of which ider	ntify it as	being			
characteristic of its class					
Importance in demonstrating the principal characteristics of human activities					
(including way of life, philosophy, custom, process, land-use,					
or technique) in the environment of the nation, province, regio					
7. Sphere of Significance	High	Medium	Low		
International					
National					
Provincial					
Regional					
Local					
Specific community					
8. Significance rating of feature					
1. Low					
2. Medium					
3. High					

#### Significance of impact:

- low where the impact will not have an influence on or require to be significantly accommodated in the project design
- medium where the impact could have an influence which will require modification of the project design or alternative mitigation
- high where it would have a "no-go" implication on the project regardless of any mitigation

#### Certainty of prediction:

- Definite: More than 90% sure of a particular fact. Substantial supportive data to verify assessment
- Probable: More than 70% sure of a particular fact, or of the likelihood of that impact occurring
- Possible: Only more than 40% sure of a particular fact, or of the likelihood of an impact occurring
- Unsure: Less than 40% sure of a particular fact, or the likelihood of an impact occurring

#### Recommended management action:

For each impact, the recommended practically attainable mitigation actions which would result in a measurable reduction of the impact, must be identified. This is expressed according to the following:

1 = no further investigation/action necessary

2 = controlled sampling and/or mapping of the site necessary

 $\mathbf{3}$  = preserve site if possible, otherwise extensive salvage excavation and/or mapping necessary

4 = preserve site at all costs

#### Legal requirements:

Identify and list the specific legislation and permit requirements which potentially could be infringed upon by the proposed project, if mitigation is necessary.

#### APPENDIX 2. RELEVANT LEGISLATION

All archaeological and palaeontological sites, and meteorites are protected by the National Heritage Resources Act (Act no 25 of 1999) as stated in Section 35:

(1) Subject to the provisions of section 8, the protection of archaeological and palaeontological sites and material and meteorites is the responsibility of a provincial heritage resources authority: Provided that the protection of any wreck in the territorial waters and the maritime cultural zone shall be the responsibility of SAHRA.

(2) Subject to the provisions of subsection (8)(a), all archaeological objects, palaeontological material and meteorites are the property of the State. The responsible heritage authority must, on behalf of the State, at its discretion ensure that such objects are lodged with a museum or other public institution that has a collection policy acceptable to the heritage resources authority and may in so doing establish such terms and conditions as it sees fit for the conservation of such objects.

(3) Any person who discovers archaeological or palaeontological objects or material or a meteorite in the course of development or agricultural activity must immediately report the find to the responsible heritage resources authority, or to the nearest local authority offices or museum, which must immediately notify such heritage resources authority.

(4) No person may, without a permit issued by the responsible heritage resources authority-

(a) destroy, damage, excavate, alter, deface or otherwise disturb any archaeological or palaeontological site or any meteorite;

(b) destroy, damage, excavate, remove from its original position, collect or own any archaeological or palaeontological material or object or any meteorite;

(c) trade in, sell for private gain, export or attempt to export from the Republic any category of archaeological or palaeontological material or object, or any meteorite; or

(d) bring onto or use at an archaeological or palaeontological site any excavation equipment or any equipment which assist in the detection or recovery of metals or archaeological and palaeontological material or objects, or use such equipment for the recovery of meteorites.

In terms of cemeteries and graves the following (Section 36):

(1) Where it is not the responsibility of any other authority, SAHRA must conserve and generally care for burial grounds and graves protected in terms of this section, and it may make such arrangements for their conservation as it sees fit.

(2) SAHRA must identify and record the graves of victims of conflict and any other graves which it deems to be of cultural significance and may erect memorials associated with the grave referred to in subsection (1), and must maintain such memorials.

(3) No person may, without a permit issued by SAHRA or a provincial heritage resources authority-

(a) destroy, damage, alter, exhume or remove from its original position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;

(b) destroy, damage, alter, exhume, remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery administered by a local authority; or

(c) bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation equipment, or any equipment which assists in the detection or recovery of metals.

(4) SAHRA or a provincial heritage resources authority may not issue a permit for the destruction or damage of any burial ground or grave referred to in subsection (3)(a) unless it is satisfied that the applicant has made satisfactory arrangements for the exhumation and reinterment of the contents of such graves, at the cost of the applicant and in accordance with any regulations made by the responsible heritage resources authority.

The National Heritage Resources Act (Act no 25 of 1999) stipulates the assessment criteria and grading of archaeological sites. The following categories are distinguished in Section 7 of the Act:

- **Grade I**: Heritage resources with qualities so exceptional that they are of special national significance;
- **Grade II**: Heritage resources which, although forming part of the national estate, can be considered to have special qualities which make them significant within the context of a province or a region; and
- **Grade III**: Other heritage resources worthy of conservation, and which prescribes heritage resources assessment criteria, consistent with the criteria set out in section 3(3), which must be used by a heritage resources authority or a local authority to assess the intrinsic, comparative and contextual significance of a heritage resource and the relative benefits and costs of its protection, so that the appropriate level of grading of the resource and the consequent responsibility for its management may be allocated in terms of section 8.

Presenting archaeological sites as part of tourism attraction requires, in terms 44 of the Act, a Conservation Management Plan as well as a permit from SAHRA.

(1) Heritage resources authorities and local authorities must, wherever appropriate, coordinate and promote the presentation and use of places of cultural significance and heritage resources which form part of the national estate and for which they are responsible in terms of section 5 for public enjoyment, education. research and tourism, including-

- (a) the erection of explanatory plaques and interpretive facilities, including interpretive centres and visitor facilities;
- (b) the training and provision of guides;
- (c) the mounting of exhibitions;
- (d) the erection of memorials; and
- (e) any other means necessary for the effective presentation of the national estate.

(2) Where a heritage resource which is formally protected in terms of Part I of this Chapter is to be presented, the person wishing to undertake such presentation must, at least 60 days prior to the institution of interpretive measures or manufacture of associated material, consult with the heritage resources authority which is responsible for the protection of such heritage resource regarding the contents of interpretive material or programmes.

(3) A person may only erect a plaque or other permanent display or structure associated with such presentation in the vicinity of a place protected in terms of this Act in consultation with the heritage resources authority responsible for the protection of the place.

## **APPENDIX 3: SURVEY RESULTS**

See Appendix 1 for an explanation of the conventions used in assessing the cultural remains. Map datum used: Hartebeeshoek 94 (WGS84).

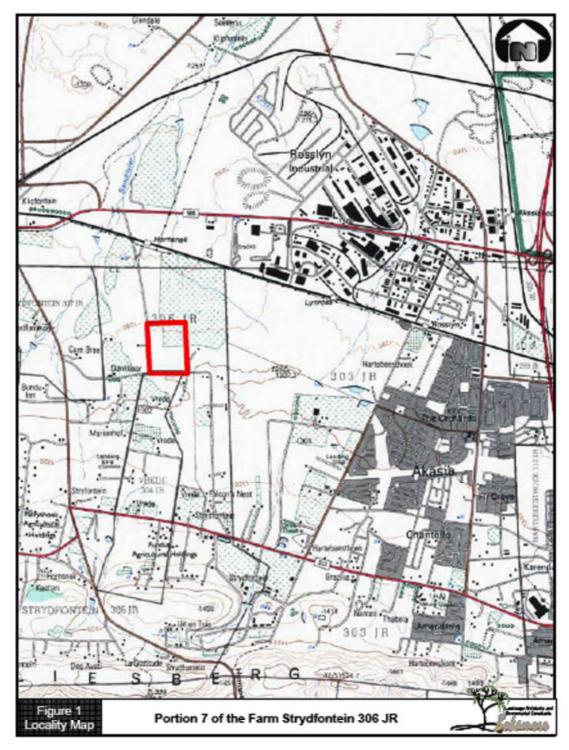


Fig. 2. Location of the study area. (Map 2528CA: Chief Directorate Survey and Mapping)

Sites identified: Nil

# **APPENDIX 4: ILLUSTRATIONS**



Fig. 3. Northern side of the study area.



Fig. 4. Southern section of the study area.