### **Rietfontein Housing Development**

Our Ref: 9/2/066/0001

Enquiries: Kathryn Smuts Edit view Tel: 021 462 4502

Edit view Email: ksmuts@sahra.org.za

CaseID: 1494

Date: Tuesday May 28, 2013

Page No: 1



### Interim Comment

In terms of Section 38(8) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Mr Clinton Geyser EnviroAfrica CC Edit view PO Box 5367 Helderberg 7135

# Proposed RDP low income (low cost) housing development at Rietfontein in the Northern Cape Province

Engelbrecht, J. February 2013. Phase 1 Heritage Impact Assessment Report: Proposed Development for Low Cost Housing Mier Local Municipality, Siyanda District Municipality, Northern Cape Province, South Africa Van Pletzen-Vos, L and Rust, R. April 2013. Heritage Impact Assessment Report: Proposed Low Income Housing Project Rietfontein, Remainder Farm No. 585, Gordonia Road, Groot Mier Municipality, Northern Cape

Siyanda District Municipality, together with the Mier Local Municipality have proposed the development of serviced low cost housing and associated infrastructure on Remainder Farm No. 585, Groot Mier. The proposed development will be over two sites, one to the north of Rietfontein and the other to the south. The development will cover 8.5 ha, consisting of 120 new development stands of which 109 or 110 will be single residential erven, with the remaining stands including school facilities, business properties, a Church and open space. Engelbrecht's report dealt with Rietfontein Site B and the van Pletzen-Vos and Rust report integrated that work with their investigation of Area A.

Area A comprised sparsely vegetated, rocky land. The area contained Early, Middle and Later Stone Age artefacts, as well as five possible graves. The artefacts consisted of seven ESA artefacts on sandstone, 77 flakes and 38 cores of MSA technology, on sandstone, quartzite, quartz, jaspilite, jasper and chert, and two LSA artefacts, one sandstone flake and ond quartzite core. The burials consist of loosely packed rocks, aligned east-west and to the west of a gravel road traversing the property; the age of the burials could not be determined.

Area B comprised an open 5.5 ha field with two seasonal water channels and two gravel tracks traversing it; the site is flat and featureless. The field survey identified no significant heritage resources, with only some scattered retouched stones recorded. The author notes that the site was disturbed in the past through the removal of stones from the site for crushing for road building.

### Case Decision:

SAHRA requests that:



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- A representative sample of the stone tools from Site A be collected prior to development, in terms of s.38(4)(b&c) of the National Heritage Resources Act (Act 25 of 1999). This work should be undertaken prior to development and the specialist will require a mitigation permit from SAHRA, in terms of Section 35 of the NHRA. On receipt of a satisfactory mitigation (Phase 2) permit report from the archaeologist, the heritage authority will make further recommendations in terms of the site. Very often permission is given for the destruction of the remainder of the archaeological or palaeontological sites.
- The burials should be investigated by means of shovel testing in order to establish whether they are indeed burials. A Shovel Testing Permit will be required for this work. If the features are graves, provisional protection under Section 36 of the NHRA (Act 25 of 1999) applies. As such, protection and conservation is always the preferred course of action, but if the area where the burials are located falls within the development footprint and cannot be excluded from the development area, then the provisions stipulated in Section 36 of the National Heritage Resources Act (Act No. 25 of 1999) are applicable, and relocation of these might proceed provided that a public consultation process is followed. Please see SAHRA's regulations as they pertain to burials: <a href="http://www.sahra.org.za/sites/default/files/website/articledocs/SahraRegulations 0.pdf">http://www.sahra.org.za/sites/default/files/website/articledocs/SahraRegulations 0.pdf</a>
- As the heritage resources on Site B were not significant, SAHRA does not deem that it is necessary to appoint a heritage monitor for the site, and that should take place at the discretion of the developer.

SAHRA further requests that a Palaeontological Impact Assessment is undertaken as the area is underlain by the potentially significant Dwyka and Ecca Groups.

Once SAHRA has received the PIA, we will issue a final comment on this project.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

Yours faithfully

Kathryn Smuts

Heritage Officer: Archaeology

South African Heritage Resources Agency



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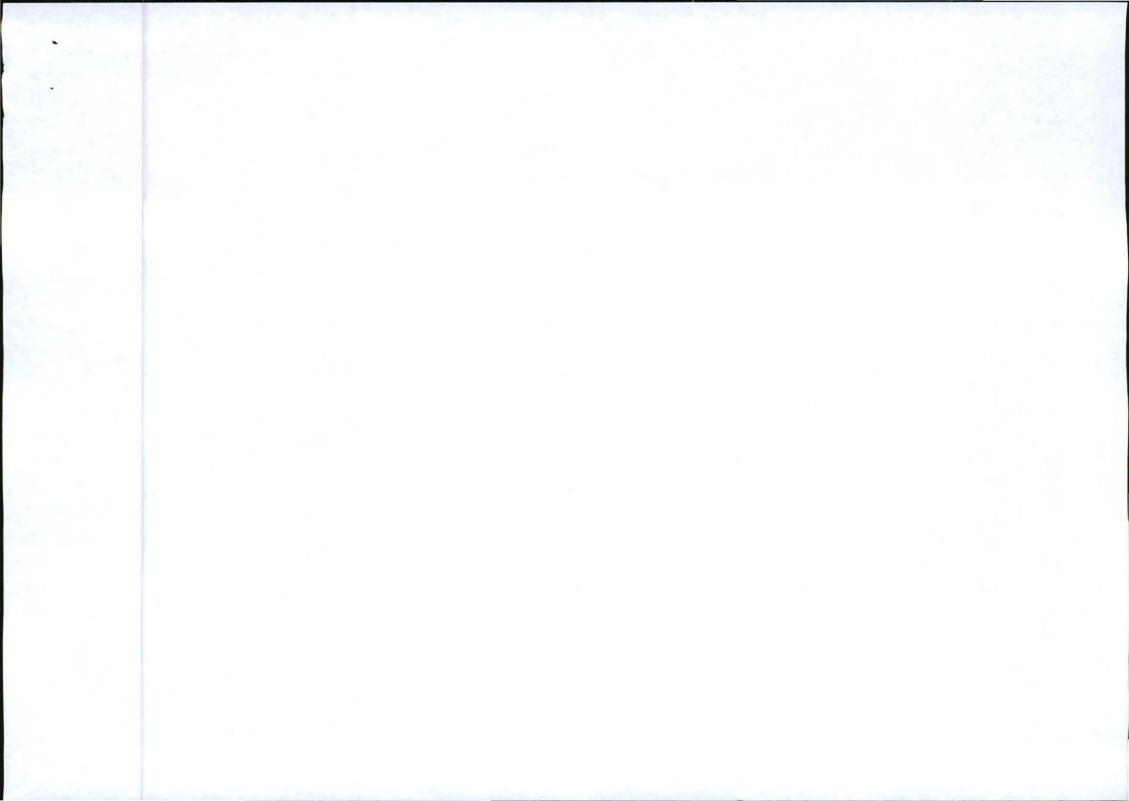


Colette Scheermeyer SAHRA Head Archaeologist South African Heritage Resources Agency

#### ADMIN:

Direct URL to case: http://www.sahra.org.za/node/109899 Edit view (DENC, Ref: NC/BA/SIY/MIE/RIET/2012)





Emailed re Portions, 28/2 covered Case 1494

### Phase 1 Heritage Impact Assessment Report:

Proposed Development for Low Cost Housing
Mier Local Municipality,
Siyanda District Municipality,
Northern Cape Province, South Africa

Prepared for

### Enviroafrica

29 St James Street Somerset West 7130 Telephone 021 8511616 Fax 086 512 0154 humayrahb@ssi.co.za

Prepared by

## UBIQUE HERITAGE CONSULTANTS PTY (LTD)



Jan Engelbrecht P.O.Box 51 Askham 8814 Northern Cape, RSA Telephone 054- 5110074 / 082 845 6276 Facsimile 054-5110074 Email jangrensman@gmail.com

15 February 2013

### MANAGEMENT SUMMARY

Ubique Heritage Consultants was appointed by Enviroafrica cc. to undertake a Phase 1 Heritage Impact Assessment of a proposed low cost housing project in the Northern Cape Province, in terms of the National Environmental Management Act 107 of 1998 as amended, in compliance with Section 38 of the National Heritage Resources Act 25 of 1999, as amended. This report represents compliance with a full Phase 1 HIA.

#### HERITAGE RESOURCE DESCRIPTIONS AND SIGNIFICANCE

It is likely that living heritage has medium to low heritage significance at the community specific, local and regional levels at least for its historic values.

### Places, Structures and Equipment

The proposed site for development has no significant places or structures. The area is clear and an open field on the periphery of Rietfontein town. The proposed development site is however in close proximity of existing houses on the eastern section of the site. The existing residential area, namely, "Eland" area will be adjacent to the proposed development site. There are no colonial/historical or pre-historical structures 60 years and older, neither are there any places or equipment of significance. It is likely that places, structures and equipment has low heritage significance at the community specific, local and regional levels at least for its historic values.

### Places Associated with Living Heritage

No significant places associated with living heritage was located on the site, except for existing houses and the local community residing adjacent to the site in the "Eland" area at Rietfontein. Places associated with living heritage have at least low heritage significance at the community specific and local levels for its social, historical and cultural values.

### **Landscapes and Natural Features**

Find included maps and images for a review of the landscape. The site consists of an open field of approximately 5,5 ha. The site includes a number of dry riverine/riverbeds which are non-perennial. The site also includes a number of existing gravel two-track roads, which indicate previous disturbance of the site. Places associated with landscape and natural features have at least low heritage significance at the community specific and local levels for its scientific and aesthetic values.

#### Archaeology

No significant archaeological remains and material were detected on the site, except for possible scattered stone tools in the proposed development site. Riverine beds were thoroughly surveyed to ensure if any archaeological material were exposed by means of erosion. Places associated with archaeology have at least low heritage significance at the community specific and local levels for its cultural and historic values.

#### Palaeontology and Meteorite sites

No palaeontological material or meteorite sites were recorded in the proposed development site. At least low heritage significance for its scientific values.

#### **Traditional Burial Places**

No traditional burial places were recorded in the proposed development site. In addition, consultation with several traditional local inhabitants revealed no oral history or evidence of any traditional graves and burial places within the site. It has at least a low heritage significance for its cultural and historic values.

#### ASSESSMENT OF DEVELOPMENT IMPACT

The impact on all heritage resources located within the proposed development site at Rietfontein is rated as low and the proposed development will not have any impact on such resources.

#### RECOMMENDED MITIGATION

Enviroafrica has appointed a heritage practitioner and archaeologist to function as the heritage resource monitor to ensure that heritage resources are identified, assessed and managed timeously and appropriately.

#### RECOMMENDED MONITORING

The Enviroafrica heritage resource monitor will ensure that heritage resources are monitored, identified, assessed and managed timeously and appropriately, according to the minimum standards described in this report.

The Mier Local Municipality should direct a staff member to undertake monitoring of the development area to identify any threats on heritage resources timeously and at their cost, but no less than once a month. We have provided a protocol for the management of heritage resources, including the identification, protection and recovery of heritage resources during the operation of the project. This protocol will be reviewed by Enviroafrica and the heritage resource monitor and refined and adapted over time.

### CONCLUSION

We recommend that the development proceed with the proposed heritage mitigation and have submitted this report to SAHRA in fulfilment of the requirements of the NHRA. The South African Heritage Resources Agency may be contacted at the SAHRA Head office (South African Heritage Resources Agency 111 Harrington Street Cape Town 8001 E-mail: <a href="mailto:info@sahra.org.za">info@sahra.org.za</a>). Dr. David Morris at the Northern Cape Provincial Heritage Authority may also be contacted (McGregor Museum, Egerton Rd Kimberley 8301, and Tel: 053-8311761 or E-mail: dmorris@museumsnc.co.za)

If permission is granted for development to proceed, the client is reminded that the NHRA requires that a developer cease all work immediately and follow the protocol contained in Section 8 of this report should any heritage resources, as defined in the Act, be discovered during the course of development activities.

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### 1. Introduction

Ubique Heritage Consultants Pty (Ltd) was appointed by Enviroafrica to undertake a Phase 1 Heritage Impact Assessment of a proposed low cost housing project at Rietfontein in the Northern Cape Province, in terms of the National Environmental Management Act 107 of 1998 as amended (NEMA), in compliance with Section 38 of the National Heritage Resources Act 25 of 1999, as amended (NHRA) (refer to Appendix A).

South Africa's heritage resources are both rich and widely diverse, encompassing sites from all periods of human history. Resources may be tangible, such as buildings and archaeological artefacts, or intangible, such as landscapes and living heritage. Their significance is based upon their aesthetic, architectural, historical, scientific, social, spiritual, linguistic, economic or technological values; their representivity of a particular time period or group; their rarity; and their sphere of influence.

The integrity and significance of heritage resources can be jeopardized by natural (e.g. erosion) and human (e.g. development) activities. In the case of human activities, a range of legislation exists to ensure the timeous and accurate identification and effective management of heritage resources for present and future generations.

This report represents compliance with a full Phase 1 HIA for the proposed development, excluding a specialist palaeontological or meteorite site study.

### 2. TERMS OF REFERENCE

An HIA must address the following key aspects:

- the identification and mapping of all heritage resources in the area affected;
- an assessment of the significance of such resources in terms of heritage assessment criteria set out in regulations:
- an assessment of the impact of the development on heritage resources;
- an evaluation of the impact of the development on heritage resources relative to the sustainable social and economic benefits to be derived from the development;
- the results of consultation with communities affected by the proposed development and other interested parties regarding the impact of the development on heritage resources;
- if heritage resources will be adversely affected by the proposed development, the consideration of alternatives; and
- plans for mitigation of any adverse effects during and after completion of the proposed development.

In addition, the HIA should comply with the requirements of NEMA, including providing the assumptions and limitations associated with the study; the details, qualifications and expertise of the person who prepared the report; and a statement of independence.

### 3. PROJECT DESCRIPTION

Siyanda District Municipality in agreement with Mier Local Municipality are planning the development and construction of low cost housing within the surveyed site near Rietfontein town. Enviroafrica was appointed as the environmental specialist company to complete an Environmental Impact Assessment of the said area (See location map) in accordance with the National Environment Management Act (Act 107 of 1998 as amended).

This development will ensure the upgrading and enhancement of the socio-economic conditions of the Rietfontein community. The development is in accordance and compliant to the National Reconstruction and Development Program of the National Government which also guides such development in the various provinces in the RSA. Therefore Rietfontein town is also identified as one of the towns to initiate such RDP developments. Several RDP developments have been completed in the area of interest and such projects are on a continuous basis, until completion. This development has been approved by the Northern Cape local Government.

The site is under jurisdiction of Siyanda District Municipality and locally under jurisdiction of the Mier Municipality. There are no existing structures, houses, developments or archaeological objects in the pathway of the proposed development. There are however a residential area adjacent and bordering to the site, but with no influence on the proposed development on this specific site. There will be no physical or economical displacement of communities, but rather a significant progress in the living conditions of many members of the community at Rietfontein after completion of the proposed project.

### 4. PROJECT LOCATION AND ENVIRONMENTAL DESCRIPTION

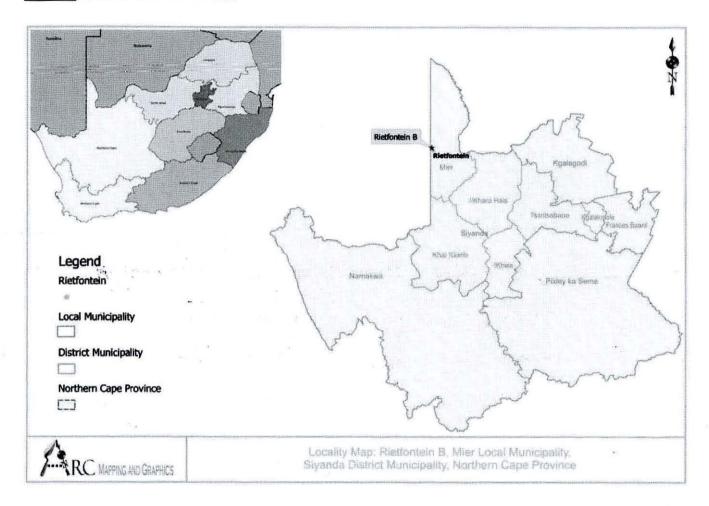
The project covers the areas within the jurisdictions of Mier Local Municipality and, Siyanda District Municipality. The relevant Surveyor-General 1:50 000 map sheets are as follows:

- i. Rietfontein Locality Map
- ii. 1:50000 Rietfontein 2620 CA and 2619 DB
- iii. Rietfontein Site B Footprint and Survey track Map
- iv. Garmin Maps (Mapsource) Footprint and Survey track
- v. Afrigis Google Sattelite Image of riverbeds and roads on Rietfontein B site
- vi. Afrigis Google Sattelite Image of Rietfontein Part B

The proposed development site consist of a open field of 5, 5 ha, filled with stones (Gneis and Dolerite). The site also include two non-perennial dry riverine beds as well as two existing two track gravel roads entering and exiting the site from east to west. The site is also in fairly close proximity of the international Namibia border and Rietfontein border post to the west. The site is situated on the edge of Rietfontein town (semi-urban), along the west- northwestern periphery. The micro- environment of the site is flat, with barely significant contour variation.

The R31 main road runs through the area as well as through the town of Rietfontein, ending at the Rietfontein Border Post. The R31, however, is spatially removed from the site and has no influence on the site regarding heritage resources. There is no population density on the site, neither are there any farming activities. There is no water bodies present on the site. The site consist of a typical arid-Klahari Desert Savanna biome with scattered stones, shrubs, a degree of savanna grass and some *Acacia erioloba* (Kameeldoring) trees.

### FIGURE 1: RIETFONTEIN LOCALITY MAP



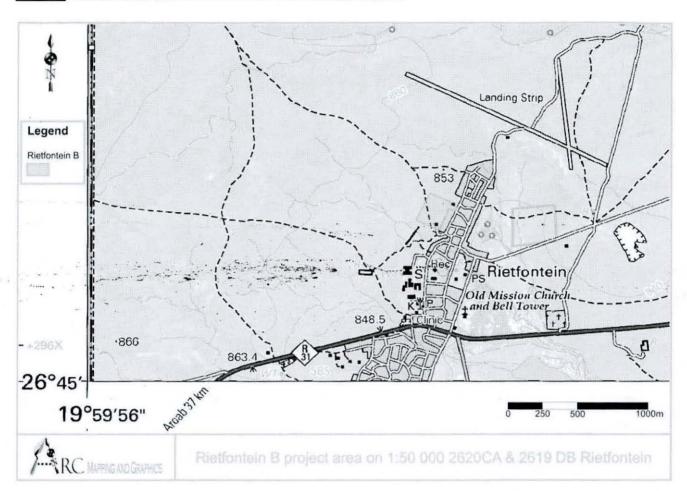


Figure 2: Extract from 1:50000 Rietfontein 2620 CA and 2619 DB

Figure 3: Rietfontein Site B Footprint and Survey Track

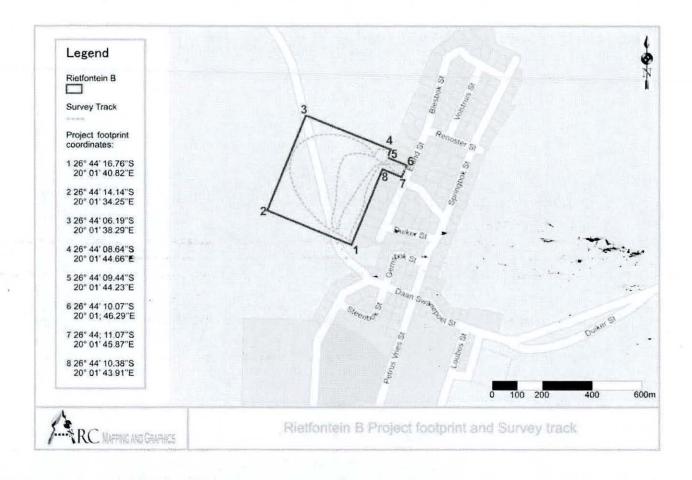


Figure 4: Garmin Maps (Mapsource) Footprint and Survey Track Map

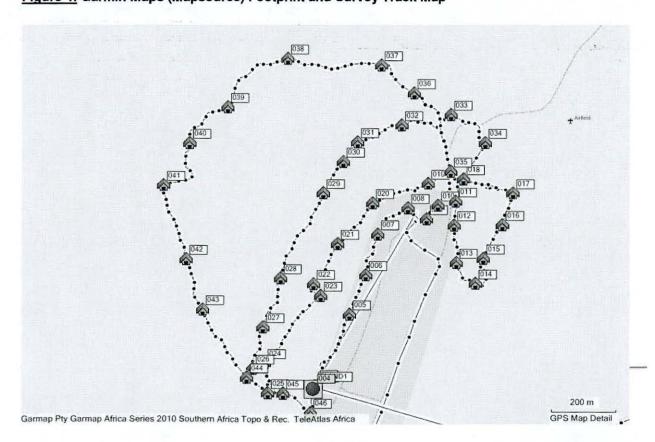


Figure 5: Afrigis Google Sattelite Image of Riverbeds and Roads of Rietfontein Site B

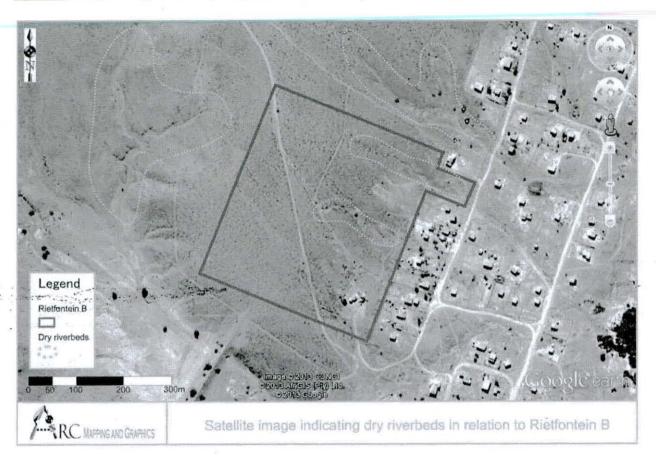
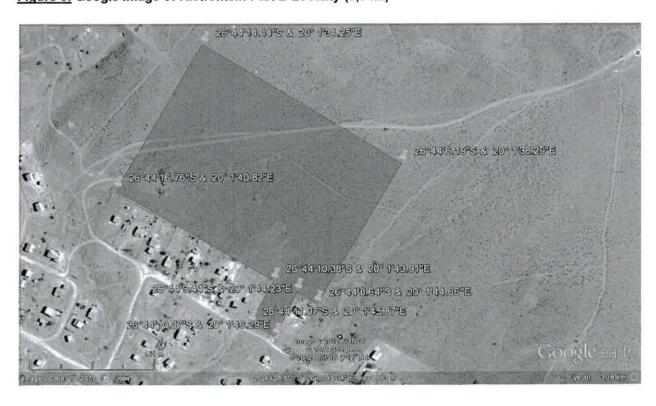


Figure 6: Google Image of Rietfontein Part B Locality (5,5 ha)



Regarding the surface mineral deposit of the site, there are no mineral deposits observed on the site, except for scattered pieces of presumably banded iron ore. Subsurface mineral deposits might be possible.

### 5. OBSERVATIONS

No development activities associated with the proposed project had begun at the time of our visit. The following table summarises the heritage resource types assessed, and our observations.

TABLE 1HERITAGE RESOURCE TYPES ASSESSED.

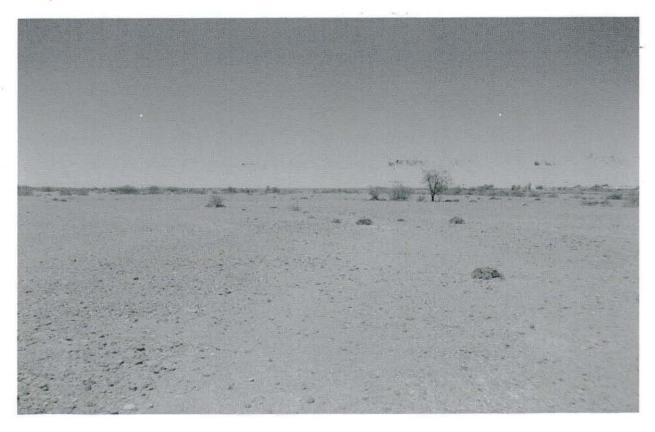
Heritage resource type	Observation
Places, buildings, structures	None were identified within the proposed
and equipment	development area.
Places associated with oral	None were identified within the proposed
traditions or living heritage	development area.
1	None were identified within the proposed
Landscapes	development area except for two existing gravel roads
Natural features	None were identified within the proposed
	development area, except for two dry riverine
	beds.
Traditional burial places	None were identified within the proposed
	development area.
Ecofacts	None were identified within the proposed
	development area.
Geological sites of scientific or	None were identified within the proposed
cultural importance	development area.
Archaeological sites	None were identified within the proposed
	development area.
Historical settlements and	None were identified within the proposed
townscapes	development area.
Public monuments and memorials	None were identified within the proposed
	development area.
Battlefields	None were identified within the proposed
	development area.

The Rietfontein B site was surveyd and as indicated above, no significant heritage was observed on the site. Images of the site are as follows:

Image 1: Rietfontein B Site Observation A



Image 2: Rietfontein B Site Observation B



No previous archaeological assessments or projects were executed on this site.

### 6. ASSESSMENT OF DEVELOPMENT IMPACT

### 6.1 Living Heritage

It is likely that living heritage has low heritage significance at the community specific, local and regional levels at least for its historic, social, cultural and spiritual values.

### 6.2 Places, buildings, structures and Equipment

It is likely that places, buildings, structures and equipment related to heritage has a low heritage significance at the community specific, local and regional levels at least for its historic, social, cultural and spiritual values.

### 6.3 Places of Oral Traditions Associated with Living Heritage

It is likely that places of oral traditions associated with living heritage has a low heritage significance at the community specific, local and regional levels at least for its historic, social, cultural and spiritual values.

### 6.4 Historical Settlements and Townscapes

It is likely that historical settlements and townscapes related to heritage has a low heritage significance at the community specific, local and regional levels at least for its historic, social, cultural and spiritual values. No historical settlements were recorder on the site and the development will include expand the town significantly with a new residential area.

### 6.5 Landscapes and Natural Features

As noted in Section 2, an HIA is required to identify all heritage resources, including landscapes and natural features that may be affected by a proposed development, both directly and indirectly. Landscapes and natural features directly affected by the proposed development is absent except for the construction of infrastructure, as well as adjacent areas that will experience probable high levels of traffic, noise and dust, and light at night. These areas will also be subject to significant visual and ecosystem changes. Regarding the cultural landscape of the Rietfontein B site and surrounds, we have not undertaken a specialist visual assessment of this landscape, since such a study is not within our field of expertise. However, we have observed that the overall topography within the proposed development area is flat and comprises some low hills. These have been lightly eroded and incised by water courses which form the low points in the topography. The altitude barely varies throughout the site.

### 6.6 Archaeology

The impact on archaeological remains, material and objects is significantly low. Noo archaeological objects were recorded, except for some scattered retouched stones, but these stones are not diagnostic of any Stone Age artefacts and can not be confirmed within context, provenance or matrix. It is likely that archaeological remains on the site has a low heritage significance at the community specific, local and regional levels at least for its historic, social, cultural and spiritual values.

#### 6.7 Palaeontology

The palaeontology of the proposed development site has low heritage significance at local, regional and national levels at least for its scientific value.

### 6.8 Graves and Burial Grounds

The Rietfontein town has its own Municipal burial grounds to the south of Rietfontein town. No burial grounds or graves were recorded during our survey and consultation with the local community confirmed the absence of any graves on the site. Graves, burial sites and human remains have no heritage significance at all levels for their social, cultural and spiritual values.

#### 6.9 Public Monuments and Memorials

No public monuments or memorials were recorded on the site. Public monuments or memorials have no heritage significance at all levels for their social, cultural and spiritual values.

### 7. RECOMMENDED MITIGATION

An important means of enhancing living heritage can be through the creation of opportunities for communities to promote customs, traditions and ways of life among themselves and to visitors. One way of doing so is through 'cultural villages'. Marschall (2003: 109-110, 127) writes:

While popular with tourists, cultural villages—especially those featuring Zulu and San or Bushmen culture—have also attracted the critical attention of scholars and journalists. Recurring criticisms include the contention that cultural villages reduce individuals and communities to consumable commodities; that cultural villages represent myths instead of culture; that they present cultural practices in a superficial and ahistorical manner, frozen in time; that they reproduce highly stereotyped images, generated by the West's desire for exoticism and imagination of the primitive Other; and that tourists are for the most part uncritical, passive consumers who enjoy such representations because they confirm their preconceived stereotypes...

'[However] there is a need for a much more differentiated approach. There is a common inclination to speak about cultural villages in a generalised manner, treating them as if they were all essentially the same...[whereas studies] demonstrate that there are major differences between such ventures in the way aspects of culture are presented, in the way the varying needs of the tourists are accommodated, and in terms of the impact on, or benefits to the performing community...If cultural villages pride themselves in preserving and showcasing traditional culture, they should portray culture as living and dynamic, rather than turning it into some modern plaything'.

While the development of the low cost housing will improve the socio-economic conditions of the Rietfontein community, there should be room for improvement and promotion of their customs among themselves and visitors. The area is situated in the Kalahari and in the region of the Kgalagadi Transfrontier Park. It could enhance the economical prospective if possible development of tourism enterprises at Rietfontein could be promoted. The developer should appoint a professional organisation to facilitate training and development of tourism at Rietfontein to enhance per capita income of the unemployed. This should be linked to the traditions and customs of the local community. Another focal point of living heritage, and arguably one that is more dedicated to the documentation and appreciation of such heritage for its intrinsic rather than its tourism values is the interpretive centre. Such a centre, if thoughtfully designed and located, can become a fundamental part of community life, with performance and display spaces that accommodate both small and large groups of visitors. Interpretive centres may simultaneously function as tourism attractions and places where residents may interact positively with visitors. An interpretive centre could also accommodate training facilities to host art, dance and music workshops and classes; tourist guide training; permaculture and organic farming workshops; etc. Such facilities should be able to accommodate school groups, which could become the most crucial user group and income generator for the centre over time.

However, very few cultural villages or interpretive centres ever become financially self-sufficient. Accordingly, private enterprise and traditional authority structures should ensure that maintenance is funded on an ongoing basis, since neglected facilities discourage tourism and attract vandalism. Such funders should also provide for the documentation, storage and dissemination of living heritage, in partnership with primary and tertiary learning institutions and government bodies such as the Northern Cape Museum Services.

Furthermore, we believe that some community members have unrealistic expectations of tourism prospects for the area. The reality is that, in a province that has an abundance of scenic cultural and environmental attractions, few if any visitors will be drawn to an area that is very remote as in the case of Rietfontein. Consequently, it is highly unlikely that private businesses will be willing to invest in accommodation or other tourism facilities in the area, which will simply prove unviable.

Regarding the impact on heritage on the proposed development site, there is no reason for the development not to continue from our professional point of view. Such a development will be an asset to the region as well as the local community of Rietfontein.

### 7. RECOMMENDED MONITORING

Enviroafrica must appointed a heritage resource monitor for the Rietfontein B and future developments to ensure that heritage resources are identified, assessed and managed timeously and appropriately, according to the following minimum standards: ☐ The monitor will undertake inspections and surveys once monthly, unless requested to do so upon the inadvertent discovery of a heritage resource site. ☐ Heritage surveys will focus on and around bush clearing and construction. ☐ All archaeological material, including skeletal remains, ceramics and stone tools, identified during surveys or reported by Enviroafrica and the developer should be investigated and assigned low, medium or high significance based on specific criteria. ☐ All heritage resource sites identified during construction that require further mitigation must be signposted. These areas become no-go areas to all traffic. ☐ Only the supplier may remove or give permission to remove the poles demarcating a site once s/he completes the survey/excavation. ☐ The supplier will obtain sampling and/or excavation permits from SAHRA for specific archaeological sites on a case by case basis, if discovered during construction. ☐ The supplier will be available telephonically 24 hours a day. If s/he is not available, s/he will have a trained and fully licensed competent person to stand in for her/him. ☐ The supplier will notify Enviroafrica and the developer if s/he is not available. ☐ The supplier will comply with all general requirements regarding tools and equipment, service methodology and specifications.

# 8. PROTOCOL FOR THE IDENTIFICATION, PROTECTION AND RECOVERY OF HERITAGE RESOURCES DURING CONSTRUCTION AND OPERATION

It is possible that sub-surface heritage resources might be encountered during the construction phase of this project. The Project Engineer, Environmental Control Officer and all other persons responsible for site management and excavation should be aware that indicators of sub-surface sites could include:

- Ash deposits (unnaturally grey appearance of soil compared to the surrounding substrate);
- Bone concentrations, either animal or human;
- Ceramic fragments, including potsherds;
- Stone concentrations that appear to be formally arranged (may indicate the presence of an underlying burial)
- Fossilised remains of fauna and flora, including trees.
- Stone tool concentrations from San origin.

In the event that such indicator(s) of heritage resources are identified, the following actions should be taken immediately:

- All construction within a radius of at least 20m of the indicator should cease. This distance should be increased at the discretion of supervisory staff if heavy machinery or explosives could cause further disturbance to the suspected heritage resource.
- This area must be marked using clearly visible means, such as barrier tape, and all personnel should be informed that it is a no-go area.
- A guard should be appointed to enforce this no-go area if there is any possibility that it could be violated, whether intentionally or inadvertently, by construction staff or members of the public.
- No measures should be taken to cover up the suspected heritage resource with soil, or to collect any remains such as bone, ceramics or stone.
- If a heritage practitioner has been appointed to monitor the project, s/he should be contacted and a site inspection arranged as soon as possible.
- If no heritage practitioner has been appointed to monitor the project, SAHRA or Dr. D. Morris must be contacted at the SAHRA head office or at the McGregor museum.
- The South African Police Services should be notified by a SAHRA staff member or an independent heritage practitioner if human remains are identified. No SAPS official may disturb or exhume such remains, whether of recent origin or not.
- All parties concerned should respect the potentially sensitive and confidential nature of the heritage resources, particularly human remains, and refrain from making public statements until a mutually agreed time.
- Any extension of the project beyond its current footprint involving vegetation and/or earth clearance should be subject to prior assessment by a qualified heritage practitioner, taking into account all information gathered during this initial heritage impact assessment.

### 9. CONCLUSION

We recommend that the development proceed with the proposed heritage mitigation and have submitted this report to SAHRA in fulfilment of the requirements of the NHRA. According to Section 38(4) of the Act the report shall be considered timeously by the Council which shall, after consultation with the person proposing the development, decide —

- whether or not the development may proceed;
- any limitations or conditions are to be applied to the development;
- what general protections in terms of this Act apply, and what formal protections may be applied to such heritage resources;
- whether compensatory action shall be required in respect of any heritage resources damaged or destroyed as a result of the development; and
- Whether the appointment of specialists is required as a condition of approval of the proposal.

SAHRA head office may be contacted (South African Heritage Resources Agency, 111 Harrington Street Cape Town 8001; E-mail: info@sahra.org.za).

Dr. David Morris may be contacted (Northern Cape Heritage Resources Authority, Egerton Rd Kimberley 8301, Tel: 053-8311761, E-mail: dmorris@museumsnc.co.za)

If permission is granted for development to proceed, the client is reminded that the NHRA requires that a developer cease all work immediately and follow the protocol contained in Section 8 of this report should any heritage resources, as defined in the Act, be discovered during the course of development activities.

### 10. BIBLIOGRAPHY

### Appendix B

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### APPENDIX A STATUTORY REQUIREMENTS

#### General

The Constitution of the Republic of South Africa Act 108 of 1996 is the source of all legislation. Within the Constitution the Bill of Rights is fundamental, with the principle that the environment should be protected for present and future generations by preventing pollution, promoting conservation and practising ecologically sustainable development. With regard to spatial planning and related legislation at national and provincial levels the following legislation may be relevant:

- Physical Planning Act 125 of 1991
- Municipal Structures Act 117 of 1998
- Municipal Systems Act 32 of 2000
- Development Facilitation Act 67 of 1995 (DFA)
- KwaZulu-Natal Planning and Development Act 6 of 2008.

The identification, evaluation and management of heritage resources in South Africa is required and governed by the following legislation:

- National Environmental Management Act 107 of 1998 (NEMA)
- KwaZulu-Natal Heritage Act 4 of 2008 (KZNHA)
- National Heritage Resources Act 25 of 1999 (NHRA)
- Minerals and Petroleum Resources Development Act 28 of 2002 (MPRDA)

### National Heritage Resources Act 25 of 1999

The NHRA established the South African Heritage Resources Agency (SAHRA) together with its Council to fulfill the following functions:

- co-ordinate and promote the management of heritage resources at national level;
- set norms and maintain essential national standards for the management of heritage resources in the Republic and to protect heritage resources of national significance;
- control the export of nationally significant heritage objects and the import into the Republic of cultural property illegally exported from foreign countries;
- enable the provinces to establish heritage authorities which must adopt powers to protect and manage certain categories of heritage resources; and
- provide for the protection and management of conservation-worthy places and areas by local authorities.

### **Heritage Impact Assessments**

Section 38(1) of the NHRA of 1999 requires the responsible heritage resources authority to notify the person who intends to undertake a development that fulfils the following criteria to submit an impact assessment report if there is reason to believe that heritage resources will be affected by such development:

- the construction of a road, wall, power line, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;
- the construction of a bridge or similar structure exceeding 50m in length;
- any development or other activity which will change the character of a site—
  - (i) exceeding 5 000m2 in extent; or
  - (ii) involving three or more existing erven or subdivisions thereof; or

- (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or
- (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;
- the re-zoning of a site exceeding 10 000m² in extent; or
- any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority.

Reports in fulfilment of Section 38(3) of the Act must include the following information:

- the identification and mapping of all heritage resources in the area affected;
- an assessment of the significance of such resources in terms of the heritage assessment criteria set out in regulations;
- an assessment of the impact of the development on such heritage resources;
- an evaluation of the impact of the development on heritage resources relative to the sustainable social and economic benefits to be derived from the development;
- the results of consultation with communities affected by the proposed development and other interested parties regarding the impact of the development on heritage resources;
- if heritage resources will be adversely affected by the proposed development, the consideration of alternatives; and
- plans for mitigation of any adverse effects during and after completion of the proposed development.

### Definitions of heritage resources

The NHRA defines a heritage resource as any place or object of cultural significance i.e. of aesthetic, architectural, historical, scientific, social, spiritual, linguistic or technological value or significance. This includes, but is not limited to, the following wide range of places and objects:

- living heritage as defined in the National Heritage Council Act No 11 of 1999 (cultural tradition; oral history; performance; ritual; popular memory; skills and techniques; indigenous knowledge systems; and the holistic approach to nature, society and social relationships);
- ecofacts (non-artefactual organic or environmental remains that may reveal aspects of past human activity; definition used in KwaZulu-Natal Heritage Act 2008);
- places, buildings, structures and equipment;
- places to which oral traditions are attached or which are associated with living heritage;
- historical settlements and townscapes;
- landscapes and natural features;
- geological sites of scientific or cultural importance;
- archaeological and palaeontological sites;
- graves and burial grounds;
- public monuments and memorials;
- sites of significance relating to the history of slavery in South Africa;
- movable objects, but excluding any object made by a living person; and
- battlefields.

Furthermore, a place or object is to be considered part of the national estate if it has cultural significance or other special value because of—

- its importance in the community, or pattern of South Africa's history;
- its possession of uncommon, rare or endangered aspects of South Africa's natural or cultural heritage;

- its potential to yield information that will contribute to an understanding of South Africa's natural or cultural heritage;
- its importance in demonstrating the principal characteristics of a particular class of South Africa's natural or cultural places or objects;
- its importance in exhibiting particular aesthetic characteristics valued by a community or cultural group;
- its importance in demonstrating a high degree of creative or technical achievement at a particular period;
- its strong or special association with a particular community or cultural group for social, cultural or spiritual reasons; and
- its strong or special association with the life or work of a person, group or organisation of importance in the history of South Africa.

### 'Archaeological' means -

- material remains resulting from human activity which are in a state of disuse and are in or on land and are older than 100 years, including artefacts, human and hominid remains and artificial features and structures:
- rock art, being any form of painting, engraving or other graphic representation on a fixed rock surface or loose rock or stone, which was executed by human agency and is older than 100 years including any area within 10 m of such representation;
- wrecks, being any vessel or aircraft, or any part thereof, which was wrecked in South Africa, whether on land, in the internal waters, the territorial waters or in the culture zone of the Republic, as defined respectively in sections 3, 4 and 6 of the Maritime Zones Act, 1994 (Act No. 15 of 1994), and any cargo, debris or artefacts found or associated therewith, which is older than 60 years or which SAHRA considers to be worthy of conservation;
- features, structures and artefacts associated with military history which are older than 75 years and the sites on which they are found.

'Palaeontological' means any fossilised remains or fossil trace of animals or plants which lived in the geological past, other than fossil fuels or fossiliferous rock intended for industrial use, and any site which contains such fossilised remains or trace.

### A 'place' is defined as:

- a site, area or region;
- a building or other structure which may include equipment, furniture, fittings and articles associated with or connected with such building or other structure;
- a group of buildings or other structures which may include equipment, furniture, fittings and articles associated with or connected with such group of buildings or other structures;
- an open space, including a public square, street or park; and
- in relation to the management of a place, includes the immediate surroundings of a place.

#### 'Public monuments and memorials' means all monuments and memorials-

- erected on land belonging to any branch of central, provincial or local government, or on land belonging to any organisation funded by or established in terms of the legislation of such a branch of government; or
- which were paid for by public subscription, government funds, or a public-spirited or military organisation, and are on land belonging to any private individual;

'Structures' means any building, works, device or other facility made by people and which is fixed to land, and includes any fixtures, fittings and equipment associated therewith.

### Management of Graves and Burial Grounds

Graves younger than 60 years are protected in terms of Section 2(1) of the Removal of Graves and Dead Bodies Ordinance 7 of 1925 as well as the Human Tissues Act 65 of 1983. Such graves are the jurisdiction of the National Department of Health and the relevant Provincial Department of Health and must be submitted for final approval to the Office of the relevant Provincial Premier. This function is usually delegated to the Provincial Member of the Executive Council for Local Government and Planning, or in some cases the MEC for Housing and Welfare.

Authorisation for exhumation and reinterment must also be obtained from the relevant local or regional council where the grave is situated, as well as the relevant local or regional council to where the grave is being relocated. All local and regional provisions, laws and by-laws must also be adhered to. In order to handle and transport human remains the institution conducting the relocation should be authorised under Section 24 of the Human Tissues Act 65 of 1983.

— Graves older than 60 years situated outside a formal cemetery administered by a local authority are protected in terms of Section 36 of the NHRA as well as the Human Tissues Act of 1983. Accordingly, such graves are the jurisdiction of SAHRA. The procedure for Consultation Regarding Burial Grounds and Graves (Section 36(5) of NHRA) is applicable to graves older than 60 years that are situated outside a formal cemetery administrated by a local authority. Graves in the category located inside a formal cemetery administrated by a local authority will also require the same authorisation as set out for graves younger than 60 years over and above SAHRA authorisation.

If the grave is not situated inside a formal cemetery but is to be relocated to one, permission from the local authority is required and all regulations, laws and by-laws set by the cemetery authority must be adhered to.

The protocol for the management of graves older than 60 years situated outside a formal cemetery administered by a local authority is detailed in Section 36 of the NHRA:

- (3) (a) 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 re-interment 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.
- (5) SAHRA or a provincial heritage resources authority may not issue a permit for any activity under subsection (3)(b) unless it is satisfied that the applicant has, in accordance with regulations made by the responsible heritage resources authority—
- (a) made a concerted effort to contact and consult communities and individuals who by tradition have an interest in such grave or burial ground; and
- (b) reached agreements with such communities and individuals regarding the future of such grave or burial ground.
- (6) Subject to the provision of any other law, any person who in the course of development or any other activity discovers the location of a grave, the existence of which was previously unknown, must immediately cease such activity and report the discovery to the responsible heritage resources authority which must, in

co-operation with the South African Police Service and in accordance with regulations of the responsible heritage resources authority—

- (a) carry out an investigation for the purpose of obtaining information on whether or not such grave is protected in terms of this Act or is of significance to any community; and
- (b) if such grave is protected or is of significance, assist any person who or community which is a direct descendant to make arrangements for the exhumation and re-interment of the contents of such grave or, in the absence of such person or community, make any such arrangements as it deems fit.

#### The Vermillion Accord on Human Remains<sup>1</sup>

### Adopted in 1989 at WAC Inter-Congress, South Dakota, USA

- 1. Respect for the mortal remains of the dead shall be accorded to all, irrespective of origin, race, religion, nationality, custom and tradition.
- 2. Respect for the wishes of the dead concerning disposition shall be accorded whenever possible, reasonable and lawful, when they are known or can be reasonably inferred.
- 3. Respect for the wishes of the local community and of relatives or guardians of the dead shall be accorded whenever possible, reasonable and lawful.
- 4. Respect for the scientific research value of skeletal, mummified and other human remains (including fossil hominids) shall be accorded when such value is demonstrated to exist.
- 5. Agreement on the disposition of fossil, skeletal, mummified and other remains shall be reached by negotiation on the basis of mutual respect for the legitimate concerns of communities for the proper disposition of their ancestors, as well as the legitimate concerns of science and education.
- 6. The express recognition that the concerns of various ethnic groups, as well as those of science are legitimate and to be respected, will permit acceptable agreements to be reached and honoured.

<sup>1</sup> http://www.worldarchaeologicalcongress.org/

### APPENDIX B ARCHAEOLOGICAL AND HISTORICAL CONTEXT OF THE STUDY AREA

### The Stone Age

No systematic Early and Middle Stone Age research has been undertaken in the proposed development area, hence the general nature of this section. Open air scatters of stone artefacts, probably with low heritage significance, could be expected in areas with minimal environmental disturbance.

South Africa's prehistory has been divided into a series of phases based on broad patterns of technology. The primary distinction is between a reliance on chipped and flaked stone implements (the Stone Age) and the ability to work iron (the Iron Age). Spanning a large proportion of human history, the Stone Age in Southern Africa is further divided into the Early Stone Age, or Paleolithic Period (about 2 500 000–150 000 years ago), the Middle Stone Age, or Mesolithic Period (about 150 000–30 000 years ago), and the Late Stone Age, or Neolithic Period (about 30 000–2 000 years ago). The simple stone tools found with australopithecine fossil bones fall into the earliest part of the Early Stone Age.

### o The Early Stone Age

Most Early Stone Age sites in South Africa can probably be connected with the hominin species known as *Homo erectus*. Simply modified stones, hand axes, scraping tools, and other bifacial artifacts had a wide variety of purposes, including butchering animal carcasses, scraping hides, and digging for plant foods. Most South African archaeological sites from this period are the remains of open camps, often by the sides of rivers and lakes, although some are rock shelters, such as Montagu Cave in the Cape region.

### o The Middle Stone Age

The long episode of cultural and physical evolution gave way to a period of more rapid change about 200 000 years ago. Hand axes and large bifacial stone tools were replaced by stone flakes and blades that were fashioned into scrapers, spear points, and parts for hafted, composite implements. This technological stage, now known as the Middle Stone Age, is represented by numerous sites in South Africa.

Open camps and rock overhangs were used for shelter. Day-to-day debris has survived to provide some evidence of early ways of life, although plant foods have rarely been preserved. Middle Stone Age bands hunted medium-sized and large prey, including antelope and zebra, although they tended to avoid the largest and most dangerous animals, such as the elephant and the rhinoceros. They also ate seabirds and marine mammals that could be found along the shore and sometimes collected tortoises and ostrich eggs in large quantities.

### The Late Stone Age

Basic toolmaking techniques began to undergo additional change about 40 000 years ago. Small finely worked stone implements known as microliths became more common, while the heavier scrapers and points of the Middle Stone Age appeared less frequently. Archaeologists refer to this technological stage as the Late Stone Age. The numerous collections of stone tools from South African archaeological sites show a great degree of variation through time and across the subcontinent.

The remains of plant foods have been well preserved at such sites as Melkhoutboom Cave, De Hangen, and Diepkloof in the Cape region. Animals were trapped and hunted with spears and arrows on which were mounted well-crafted stone blades. Bands moved with the seasons as they followed game into higher lands in the spring and early summer months, when plant foods could also be found. When available, rock overhangs became shelters; otherwise, windbreaks were built. Shellfish, crayfish, seals, and seabirds were also important sources of food, as were fish caught on lines, with spears, in traps, and possibly with nets.

Dating from this period are numerous engravings on rock surfaces, mostly on the interior plateau, and paintings on the walls of rock shelters in the mountainous regions, such as the Drakensberg and Cederberg ranges. The images were made over a period of at least 25 000 years. Although scholars originally saw the South African rock art as the work of exotic foreigners such as Minoans or Phoenicians or as the product of primitive minds, they now believe that the paintings were closely associated with the work of medicine men, shamans who were involved in the well-being of the band and often worked in a state of trance. Specific representations include depictions of trance dances, metaphors for trance such as death and flight, rainmaking, and control of the movement of antelope herds.

### Iron Age

Archaeological evidence shows that Bantu-speaking agriculturists first settled in southern Africa around AD 300. Bantu-speakers originated in the vicinity of modem Cameroon from where they began to move eastwards and southwards, some time after 400 BC, skirting around the equatorial forest. An extremely rapid spread throughout much of sub-equatorial Africa followed: dating shows that the earliest communities in Tanzania and South Africa are separated in time by only 200 years, despite the 3 000 km distance between the two regions. It seems likely that the speed of the spread was a consequence of agriculturists deliberately seeking iron ore sources and particular combinations of soil and climate suitable for the cultivation of their crops.

Metal production was a key activity since it provided the tools of cultivation and hunting. The evidence indicates that people who worked metal lived in almost every village, even those that were considerable distances from ore sources.

Large-scale excavations in recent years have provided data indicating that first-millennium agriculturist society was patrilineal and that men used cattle as bride wealth in exchange for wives. On a political level, society was organised into chiefdoms that, in our region, may have had up to three hierarchical levels. The villages of chiefs tended to be larger than others, with several livestock enclosures, and some were occupied continuously for lengthy periods. Social forces of the time resulted in the concentration of unusual items on these sites. These include artefacts that originated from great distances, ivory items (which as early as AD 700 appear to have been a symbol of chieftainship), and initiation paraphernalia.

This particular way of life came to an end around AD 1000, for reasons that we do not yet fully understand. There was a radical change in the decorative style of agriculturist ceramics at this time, while the preferred village locations of the last four centuries were abandoned in favour of sites along the coastal littoral. In general, sites dating to between 1050 and 1250 are smaller than most earlier agriculturist settlements. It is tempting to see in this change the origin of the Nguni settlement pattern. Indeed, some archaeologists have suggested that the changes were a result of the movement into the region of people who were directly ancestral to the Nguni-speakers of today. Others prefer to see the change as the product of social and cultural restructuring within resident agriculturist communities.

Whatever the case, it seems likely that this new pattern of settlement was in some way influenced by a changing climate, for there is evidence of increasing aridity from about AD 900. A new pattern of economic inter-dependence evolved that is substantially different from that of earlier centuries, and is one that continued into the colonial period nearly 500 years later.

### Colonial rule

By the closing decades of the 18th century, South Africa had fallen into two broad regions: west and east. Colonial settlement dominated the west, including the winter rainfall region around the Cape of Good Hope, the coastal hinterland northward toward the present-day border with Namibia, and the dry lands of the interior. Trekboers took increasingly more land from the Khoekhoe and from remnant hunter-gatherer

communities, who were killed, were forced into marginal areas, or became labourers tied to the farms of their new overlords. Indigenous farmers controlled both the coastal and valley lowlands and the Highveld of the interior in the east, where summer rainfall and good grazing made mixed farming economies possible.

The specific region of interest in the Kgalagadi includes the settelement of the Khomani San. There is however no evidence of Khomani San settlement at Rietfontein, but more to the south and to the east into Botswana. The area was encroached by European farmers, pastoralists and missionaries and the subsequent settlement of European farmers, trekboers and missionaries took place from the 18<sup>th</sup> to 19<sup>th</sup> centuries. The area was also populated by Griqua, Nama and Khoikhoi farmers whom reside in the area to the present day. Certain groups were dislocated and after much consultation, the traditional Khomani San land was handed back to them by means of restitution by the RSA Government. Cooke (1985:78) describes the Kalahari as follows:

"The Kalahari has long been regarded as a hostile environment, in fact as a desert, inhabited only by Bushmen (more correctly San, or in Botswana, Basarwa) who had been pushed there as a last refuge by more powerful peoples. These ideas are no longer completely accepted, and it is considered more likely that the various San groups have developed in situ from earlier, possibly Stone Age stock (Campbell, 1982; Hitchcock, 1982; Denbow, 1983). They are hunter-gatherers and their foraging strategy is well adapted to the environment in which they live. The widespread occurrence of Stone Age artefacts throughout the Kalahari testifies to a very long occupation by Man through a series of climatic vicissitudes (for the latter, see Grey and Cooke, 1977). The first black peoples to enter the area came possibly as early as 200 AD and this early movement continued up until about 900 AD. There is evidence of settlement in the Francistown area from about 400 AD; as far west as Tsodilo and the Boteti river region around 700 AD; and from about 850. AD in the middle of the present-day Central District. The period from 850 AD is well represented in eastern Botswana where more than 200 hilltop sites have been identified by Denbow and others (Denbow, 1982). These people were primarily cattle herders, but also tillers of the soil, and skilled in pottery making and iron working. The importance of cattle raising was probably linked to the freedom of the Kalahari and its margins (except in the north) from tsetse fly infestation. From about 1300 AD there appears a gap in the archaeological record, and a withdrawal of these pastoralist people seems to have taken place. It was possibly caused by progressive environmental deterioration linked to a postulated long drought in southern Africa at this time. From about 1500 AD a reinvasion of black pastoralists and cultivators took place, and ultimately led to the occupation of the country by the present dominant Tswana groups. The Bakgalagadi, who occupy parts of the Kalahari, were probably early arrivals who were forced into the less hospitable areas by later, better organized groups, and there developed a mixed foraging and stock-keeping economy. It is considered highly likely that these pastoral and cultivating peoples, who have occupied the Kalahari margins at various times in the past two millennia, would have naturally penetrated the sandveld to utilize its excellent grazing potential. Such movements would have been controlled by the availability of surface water during the wet season, and for varying periods into the dry season, depending on the amount of water remaining in pans and fossil valleys. They must also have used the wild resources both plant and animal, as a direct source of human food, especially in years of drought stress. They would thus come into close contact with the indigenous peoples of the Kalahari. Some archaeological evidence of such contacts is coming to light, and the Tswana peoples have certainly made extensive use of Kalahari resources, and in so doing have employed the Basarwa and Bakgalagadi as hunters and herdsmen. Denbow (1983) and Wilmsen (1982) have suggested from their archaeological and anthropolog-ical researches that a close interaction between hunter-gatherer and pastoralist/ cultivator groups must have existed over a very long period of time. Climatic oscillations between groups of wetter and groups of drier years, and the endemic occurrence of serious drought must have greatly influenced changes in emphasis between the opportunities offered by the Kalahari and its margins for hunting, food-gathering, pastoralism, and, more rarely, cultivating".

It is imperative to keep in mind the contact between the various ethnic groups in the area of interest. Development at Rietfontein B might reveal sub-surface artefacts from any period as described above. The developer should comply with the protocol as described in section 8 of this report as well as the NHRA.

### APPENDIX C METHODOLOGY

### Site survey

Ubique Heritage Consultants staff members inspected the proposed activity area on 4 February 2013 and completed a controlled-exclusive surface survey, where 'sufficient information exists on an area to make solid and defensible assumptions and judgements about where [heritage resource] sites may and may not be' and 'an inspection of the surface of the ground, wherever this surface is visible, is made, with no substantial attempt to clear brush, turf, deadfall, leaves or other material that may cover the surface and with no attempt to look beneath the surface beyond the inspection of rodent burrows, cut banks and other exposures that are observed by accident' (King 1978; see bibliography for other references informing methodological approach).

The site survey comprised walks along the proposed development site. Photographs were taken with a Nikon Coolpix camera and a representative selection is included in this report. Geographic coordinates were obtained using a handheld Garmin global positioning unit (Colorado 300).

#### Database and literature review

No archaeological site data was available for the project area. A concise account of the archaeology and history of the broader study area was compiled from sources including those listed in the bibliography.

### Assessment of heritage resource value and significance

Heritage resources are significant only to the extent that they have public value, as demonstrated by the following guidelines for determining site significance developed by Heritage Western Cape in 2007 and utilised during this assessment.

### **Grade I Sites (National Heritage Sites)**

Regulation 43 Government Gazette no 6820. 8 No. 24893 30 May 2003, Notice No. 694 states that: Grade I heritage resources are heritage resources with qualities so exceptional that they are of special national significance should be applied to any heritage resource which is

- a) Of outstanding significance in terms of one or more of the criteria set out in section 3(3) of the NHRA;
- b) Authentic in terms of design, materials, workmanship or setting; and is of such universal value and symbolic importance that it can promote human understanding and contribute to nation building, and its loss would significantly diminish the national heritage.
- 1. Is the site of outstanding national significance?
- 2. Is the site the best possible representative of a national issue, event or group or person of national historical importance?
- 3. Does it fall within the proposed themes that are to be represented by National Heritage Sites?
- 4. Does the site contribute to nation building and reconciliation?
- 5. Does the site illustrate an issue or theme, or the side of an issue already represented by an existing National Heritage Site or would the issue be better represented by another site?
- 6. Is the site authentic and intact?
- 7. Should the declaration be part of a serial declaration?
- 8. Is it appropriate that this site be managed at a national level?
- 9. What are the implications of not managing the site at national level?

### **Grade II Sites (Provincial Heritage Sites)**

Regulation 43 Government Gazette no 6820. 8 No. 24893 30 May 2003, Notice No. 694 states that: Grade II heritage resources are those with special qualities which make them significant in the context of a province or region and should be applied to any heritage resource which -

- a) is of great significance in terms of one or more of the criteria set out in section 3(3) of the NHRA; and
- (b) enriches the understanding of cultural, historical, social and scientific development in the province or region in which it is situated, but that does not fulfil the criteria for Grade 1 status.

Grade II sites may include, but are not limited to -

- (a) places, buildings, structures and immovable equipment of cultural significance;
- (b) places to which oral traditions are attached or which are associated with living heritage;
- (c) historical settlements and townscapes;
- (d) landscapes and natural features of cultural significance;
- (e) geological sites of scientific or cultural importance:
- (f) archaeological and palaeontological sites; and
- (g) graves and burial grounds.

The cultural significance or other special value that Grade II sites may have, could include, but are not limited to –

- (a) its importance in the community or pattern of the history of the province;
- (b) the uncommon, rare or endangered aspects that it possess reflecting the province's natural or cultural heritage
- (c) the potential that the site may yield information that will contribute to an understanding of the province's natural or cultural heritage;
- (d) its importance in demonstrating the principal characteristics of a particular class of the province's natural or cultural places or objects;
- (e) its importance in exhibiting particular aesthetic characteristics valued by a community or cultural group in the province;
- its importance in demonstrating a high degree of creative or technical achievement at a particular period in the development or history of the province;
- (g) its strong or special association with a particular community or cultural group for social, cultural or spiritual reasons; and
- (h) its strong or special association with the life or work of a person, group or organization of importance in the history of the province.

### Grade III (Local Heritage Resources)

Regulation 43 Government Gazette no 6820. 8 No. 24893 30 May 2003, Notice No. 694 states that: Grade III heritage status should be applied to any heritage resource which

- (a) fulfils one or more of the criteria set out in section 3(3) of the NHRA; or
- (b) in the case of a site contributes to the environmental quality or cultural significance of a larger area which fulfils one of the above criteria, but that does not fulfill the criteria for Grade 2 status.

#### Grade IIIA

This grading is applied to buildings and sites that have sufficient intrinsic significance to be regarded as local heritage resources; and are significant enough to warrant *any* alteration being regulated. The significances of these buildings and/or sites should include at least some of the following characteristics:

- Highly significant association with a
  - historic person
  - social grouping
  - historic events
  - o historical activities or roles
  - public memory

- Historical and/or visual-spatial landmark within a place
- High architectural quality, well-constructed and of fine materials
- Historical fabric is mostly intact (this fabric may be layered historically and/or past damage should be easily reversible)
- Fabric dates to the early origins of a place
- Fabric clearly illustrates an historical period in the evolution of a place
- Fabric clearly illustrates the key uses and roles of a place over time
- Contributes significantly to the environmental quality of a Grade I or Grade II heritage resource or a conservation/heritage area

Such buildings and sites may be representative, being excellent examples of their kind, or may be rare: as such they should receive maximum protection at local level.

#### Grade IIIB

This grading is applied to buildings and/or sites of a marginally lesser significance than grade IIIA; and such marginally lesser significance argues against the regulation of internal alterations. Such buildings and sites may have similar significances to those of a grade IIIA building or site, but to a lesser degree. Like grade IIIA buildings and sites, such buildings and sites may be representative, being excellent examples of their kind, or may be rare, but less so than grade IIIA examples: as such they should receive less stringent protection than grade IIIA buildings and sites at local level and internal alterations should not be regulated (in this context).

#### Grade IIIC

This grading is applied to buildings and/or sites whose significance is, in large part, a significance that contributes to the character or significance of the environs. These buildings and sites should, as a consequence, only be protected and regulated *if the significance of the environs is sufficient to warrant protective measures*. In other words, these buildings and/or sites will only be protected if they are within declared conservation or heritage areas.

#### Assessment of development impacts

A heritage resource impact may be defined broadly as the net change, either beneficial or adverse, between the integrity of a heritage site with and without the proposed development. Beneficial impacts occur wherever a proposed development actively protects, preserves or enhances a heritage resource, by minimising natural site erosion or facilitating non-destructive public use, for example. More commonly, development impacts are of an adverse nature and can include:

- destruction or alteration of all or part of a heritage site;
- isolation of a site from its natural setting; and / or
- introduction of physical, chemical or visual elements that are out of character with the heritage resource and its setting.

Beneficial and adverse impacts can be direct or indirect, as well as cumulative, as implied by the aforementioned examples. Although indirect impacts may be more difficult to foresee, assess and quantify, they must form part of the assessment process. The following assessment criteria have been used to assess the impacts of the proposed development on possible identified heritage resources:

Criteria	Rating Scales	Notes
Nature	Positive	An evaluation of the type of effect the construction, operation and
	Negative	management of the proposed development would have on the
	Neutral	heritage resource.
Extent	Low	Site-specific, affects only the development footprint.
	Medium	Local (limited to the site and its immediate surroundings, including the surrounding towns and settlements within a 10 km radius);
	High	Regional (beyond a 10 km radius) to national.
Duration	Low	0-4 years (i.e. duration of construction phase).
	Medium	5-10 years.
	High	More than 10 years to permanent.
Intensity	Low	Where the impact affects the heritage resource in such a way that its significance and value are minimally affected.
	Medium	Where the heritage resource is altered and its significance and value are measurably reduced.
	High	Where the heritage resource is altered or destroyed to the extent that its significance and value cease to exist.
Potential for impact on irreplaceable resources	Low	No irreplaceable resources will be impacted.
	Medium	Resources that will be impacted can be replaced, with effort,
	High	There is no potential for replacing a particular vulnerable resource that will be impacted.
Consequence a combination of extent, duration, intensity and the potential for impact on irreplaceable resources).	Low	A combination of any of the following:  - Intensity, duration, extent and impact on irreplaceable resources are all rated low.  - Intensity is low and up to two of the other criteria are rated medium.  - Intensity is medium and all three other criteria are rated low.
	Medium	Intensity is medium and at least two of the other criteria are rated medium.
	High	Intensity and impact on irreplaceable resources are rated high, with any combination of extent and duration.  Intensity is rated high, with all of the other criteria being rated medium or higher.
Probability (the likelihood of the impact occurring)	Low	It is highly unlikely or less than 50 % likely that an impact will occur.
	Medium	It is between 50 and 70 % certain that the impact will occur.
	High	It is more than 75 % certain that the impact will occur or it is definite that the impact will occur.
Significance (all impacts including potential cumulative impacts)	Low	Low consequence and low probability.  Low consequence and medium probability.  Low consequence and high probability.
	Medium	Medium consequence and low probability.  Medium consequence and medium probability.  Medium consequence and high probability.  High consequence and low probability.
	High	High consequence and medium probability.  High consequence and high probability.

### Assumptions and limitations of this HIA

- The description of the proposed project, provided by the client, is assumed to be accurate.
- The public consultation process undertaken as part of the Environmental Impact Assessment is sufficient and adequate and does not require repetition as part of the heritage impact assessment.
- Soil surface visibility was good. Heritage resources might be present below the surface and we remind
  the client that the NHRA requires that a developer cease all work immediately and observe the protocol
  in Section 8 should any heritage resources, as defined in the Act, be discovered during the course of
  development activities.
- No subsurface investigation (including excavations or sampling) were undertaken, since a permit from SAHRA is required to disturb a heritage resource.
- A key concept in the management of heritage resources is that of non-renewability: damage to or destruction of most resources, including that caused by bona fide research endeavours, cannot be

- reversed or undone. Accordingly, management recommendations for heritage resources in the context of development are as conservative as possible.
- Human sciences are necessarily both subjective and objective in nature. Ubique Heritage Consultants staff members strive to manage heritage resources to the highest standards in accordance with national and international best practice, but recognise that their opinions might differ from those of other heritage practitioners.
- Staff members involved in this project have no vested interest in it; are qualified to undertake the tasks as described in the terms of reference (refer to Appendix D); and comply at all times with the Codes of Ethics and Conduct of the Association of Southern African Professional Archaeologists.
- Ubique Heritage Consultants staff members take no personal or professional responsibility for the misuse of the information contained in this report, although they will take all reasonable precautions against such misuse.

### APPENDIX D SPECIALIST COMPETENCY AND DECLARATION OF INDEPENDENCE

### Specialist competency

Jan Engelbrecht is accredited by the Cultural Resources Management section of the Association of Southern African Professional Archaeologists (ASAPA) to undertake Phase1 HIAs in South Africa. He is also a member of the Association for Professional Archaeologists. Mr Engelbrecht has an honours degree in archaeology (specialising in the history of early farmers in southern Africa (Iron Age) and Colonial period) from the University of South Africa and has 5 years' experience in heritage management. He has worked on projects as diverse as the Zulti South HIA project of Richards Bay Minerals for mining activities, research on the David Bruce heritage site at Ubombo in Kwa-Zulu Natal and various archaeological excavations and historical projects. He has worked with many rural communities to establish integrated heritage and land use plans and speaks Zulu fluently.

Mr. Engelbrecht established Ubique Heritage Consultants during 2011. The company moved from KZN to the Northern Cape and is currently based at Askham in the Northern Cape under Mier local municipality in the Kgalagadi region. He followed a significant military career as an officer, whereafter he qualified as an Animal Health Technician at Technikon RSA. He is currently completing his final year of BTech Animal Health at UNISA and will commence with his masters degree in Archaeology as from 2014. Experience in heritage related work is as follows:

#### HERITAGE IMPACT ASSESSMENT EXPERIENCE - Assistant/Technician/Archaeologist

Note: All Heritage related work as well as surveys and other archaeological related work was done under the supervision of a professional archaeologist and in an assisting or technical capacity until 2009.

### PERIOD:2006

- Hlabayalingana Palaeontological Site Survey and Impact Study under supervision of AMAFA.
- Pongola Site Survey Ntshangase Tribal Trust under supervision of AMAFA.
- Ithala Game Reserve Heritage Impact Assessment under supervision of AMAFA.
- Isandlwana Site Survey and assistance with Heritage Management Plan under supervision of AMAFA.
- Border Cave Site Monitoring and assistance with Heritage Management Plan under supervision of AMAFA.
- Muden (KZN) (eThembeni Heritage) Assisting in Heritage Impact Assessment together with professional archaeologist Mr. Len van Schalkwyk.

### **PERIOD: 2007**

- Blood River Site Investigation under supervision of professional archaeologist, Ms. E. Becker.
- Bergville Iron Age Site Survey and Heritage Impact Assessment under supervision of AMAFA.
- Golela Nature Reserve Heritage Impact Assessment under supervision of AMAFA.
- Bizana Eastern Cape Heritage Impact Assessment under supervision of professional archaeologist Ms. E. Becker.
- David Bruce (Ubombo) Historical Heritage Impact Assessment and Site Investigation under supervision of AMAFA.

### **PERIOD: 2008**

- Sodwana Bay Heritage Impact Assessment under supervision of professional archaeologist Ms. E. Becker.
- Port Nolloth Local Museum Upgrade Assistance with research and Anthropological Interviews under supervision of professional archaeologist Ms. E. Becker.
- Brussels Estate North West Province Site Survey under supervision of professional archaeologist Prof J.C.A Boeyens, Dr. M.M. van der Ryst, Mr. F.P. Coetzee and Ms. E. Becker.
- Assist with HIA for Eskom line between Volksrust and Ladysmith under supervision of professional archaeologist Ms. E. Becker and Knights Piesold Consulting.

### PERIOD: 2010-2013

- Registration and establishment of Ubique Heritage Consultants
- Assist eThembeni Heritage with Heritage & Archaeological impact assessment at Richards Bay Minerals (Zulti South region)

### **Declaration of independence**

We declare that Jan Engelbrecht and Ubique Heritage Consultants Pty (Ltd) have no financial or personal interest in the proposed development, nor its developers or any of its subsidiaries, apart from in the provision of heritage impact assessment, archaeological impact assessments and management consulting services.





SIGNED
J.A.C. ENGELBRECHT
UBIQUE HERITAGE CONSULTANTS Pty (Ltd)
PROFESSIONAL ARCHAEOLOGIST

DATE: 2013-02-15