Archaeological Investigation of the Proposed Heidelberg Kloof Estate Development,
Heidelberg, Gauteng

The Archaeology Contracts Unit University of South Africa PO Box 392 Pretoria 0003

September 2003

Survey conducted and report compiled by: Francois P Coetzee

Executive Summary

the proposed development No archaeological or historical settlements or remains (including graves) will be affected by

Please note the following:

- Section 44). A Heritage Conservation Management Plan (HCMP) should be compiled for the estate if the archaeological remains are be used for recreation purposes (NHRA,
- notified in order for an investigation and evaluation of the find(s) to take place (cf. NHRA (Act No. 25 of 1999), Section 36 (6)). during construction, such activities should be halted, and a university or museum level. Should archaeological artefacts or skeletal material be revealed in the area It should be kept in mind that archaeological deposits usually occur below ground

Introduction

development change the archaeological and historic remains in the proposed Heidelberg Kloof Residential Estate development, Gauteng. This report was requested by Van Riet and Louw Landscape Architects on behalf of Koppie Eiendom. This report was necessitated by an application to The Archaeology Contracts Unit (UNISA) conducted an investigation, land use from agriculture and open space to accommodate focussing on the residential

farm Langlaagde 186IR (portions 64 and 85). Reserve to the west and north. The estate is 220 hectares in extent and is situated on the property is situated north of Heidelberg and borders on the Suikerbosrand Nature

proposed area of development aim of this investigation is structures (including graves) and to locate, identify and document visible settlements ₫, cultural significance archaeological 3 the

2. Terms of Reference

The terms of reference of this survey are as follows:

- graves) and settlements Provide a detailed description of all archaeological artefacts, structures (including
- archaeological remains within the area the significance of the impact of the proposed development on # He
- Estimate the level of sensitivity/importance of the archaeological remains within the
- the development activities Propose possible mitigation measures provided that such action is necessitated by

Definitions and Approach

- ways of life, deposited on or in the ground Archaeological remains can be defined as human-made objects, which reflect past
- making recommendations in this report Heritage Resources Agency (SAHRA). Full cognisance is taken of this Act in mandatory. case the National Heritage Resources Act (NHRA) (Act No. 25 of 1999) makes an archaeological impact assessment as part of an EIA and moved or historic structures older than 60 years are protected by the relevant legislation, in this All archaeological remains, artificial features and structures older than 100 years and destroyed without the necessary No archaeological artefact, assemblage or settlement approval from the **South African** and The Act
- National Environmental Management Act (Act No 107 of 1998) when making any recommendations Cognisance will also be taken of the Minerals Act (Act No 50 of 1991) and the
- protected by the Human Tissue Act (Act 65 of 1983 as amended) Act, with reference to Section 36. Human remains that are less than 60 years old are Human remains older than 60 are protected by the National Heritage Resources

- Cultural resources are non-renewable.
- stated otherwise. With reference to the evaluation of sites, the certainty of prediction is definite, unless
- special value of archaeological or historical sites special reference to subsection 3, and the Australian ICOMOS The guidelines as provided by the NHRA (Act No. 25 of 1999) in Section Burra Charter) are used when determining the cultural significance or other Charter (also known
- NHRA (Act No. 25 of 1999), Section 36 (6)). notified in order for an investigation and evaluation of the find(s) to take place (cf. during construction, such activities should be halted, and a university or museum It should be kept in mind that archaeological deposits usually occur below ground Should archaeological artefacts or skeletal material be revealed
- No. 25 of 1999), Section 38 (subsection 4). Agency (SAHRA) as stipulated by the National Heritage Resources Act (NHRA) (Act copy of this report will be lodged with the South African Heritage Resources

Methodology

4.1 Literature Study

cultural framework of the area under investigation. Various archaeological and ethnographic sources were consulted to compile a concise

4.2 Maps and Other Sources

correlated with the geographic features (i.e. rivers, fields, topography etc.) of the survey and location of the sites were (Springs) and 2628 CB (Heidelberg), followed by an on-site investigation. The proposed development was localised by using the 1:50 000 Topographic Maps 2628AD determined by using a Global Positioning System The orientation

4.3 Fieldwork

(residential stands) graves). indications of significant historical and archaeological settlements and structures whole An on-site investigation was conducted on 10 September 2003. Utilising the road system the area was extensively surveyed by vehicle and on foot. Emphasis was placed on This survey focussed especially on areas where development is proposed (including

Area Description

surrounded by undulating hills developments The estate is situated in an open valley dominated by a perennial stream. The valley is on the farm include various paved roads, dams, on the western, northern and eastern sides. several extensive buildings Existing

According to the manufacturer a standard deviation is to be expected when determining the location of sites. However, care has been taken to correlate the reading with the topography and to obtain a low dilution of precision (DOP) before plotting sites on a map. The datum point is WGS 84.

cemeteries and swimming pool area, caravan stands, picnic areas, staff accommodation and two formal

6. Chronological Framework

according		
***********	PERIOD	APPROXIMATE DATE
	Early Stone Age	more than c. 2 million years ago - c. 250 000 years
		ago
	Middle Stone Age	c. 250 000 years ago - c. 25 000 years ago
	Later Stone Age	c. 25 000 years ago - c. AD 200 (up to historic
	(Includes San Rock Art)	times in certain areas)
	Early Iron Age	c. AD 400 - c. AD 1025
	Late Iron Age	c. AD 1025 - c. AD 1820s
	(Stone-walled sites)	(c. AD 1640 - c. AD 1820s)
	Historic Period (Farms with Title	1860 - present
	Deeds)	

Archaeological and Ethnohistorical Context

7.1 Stone Age Sequence

who made these stone tools, did not actively hunt. of perennial rivers and may date to over 2 millions years ago. These ESA open sites may from pebble tool choppers to core tools such as handaxes and cleavers. contain, firstly, scatters of stone tools and second, large concentrated deposits which range Large concentrations of Early Stone Age (ESA) sites are usually located on the flood plains The early hominids

period. stone flakes such as scrapers, points and blades. They may have been hafted but organic materials do not always preserve. Limited drive hunting activities are associated with this with rock shelters (overhangs). Sites usually consist of large concentrations of knapped Middle Stone Age (MSA) sites also occur on flood plains but are in many cases associated

materials such as wood, bone, hearths, ostrich egg shell beads and even bedding material. By using San (Bushman) ethnographic data a better understanding of this period is sometimes possible. South African rock art is also associated with this period. deposits in shelters allow for stable conditions that result in the preservation of organic Sites dating to the Late Stone Age (LSA) occur primarily in rock shelters. Well protected

7.2 Iron Age Sequence

over large parts of the North West Province, Northern Province, Gauteng and Mpumalanga. low-lying spurs close to water This phase has been dated to about AD 900 - AD 1200. to AD 600 - AD 900. The third phase, characterised by herringbone-decorated pottery of the **Eiland** tradition, is regarded as the final expression of the Early Iron Age (EIA) and occurs of migrations, and dates to AD 400 - AD 600. The second phase known as Diamant is dated phase of the Early Iron Age is known as Happy Rest, representative of the Western Stream In the central regions of South Africa at least three settlement phases, which pertain to prehistoric agropastorists, have been distinguished for the **Early Iron Age** (EIA). The first These sites are usually located on

on defensive hilltops. This occupation phase has been linked to the arrival of the Northern Sotho, Tswana and Southern Ndebele (Nguni-speakers) in the region dated from the sixteenth to seventeenth centuries AD. The terminal LIA is represented by late 18th/early to whom this period of disruption is attributed, reached the Heidelberg-area during the early the mountains during the processes of disruption in the northern interior of South Africa, caused during the so-called *difaqane* (or *Mfecane*). Mzilikazi, the leader of a Zulu regiment, Sotho-Tswana. This correlates with oral traditions about various people who sought refuge in 19th century settlements with multichrome Moloko pottery, commonly attributed to the The Late Iron Age (LIA) settlements are characterised by stone-walled enclosures situated

identified 8 distinct stone-walled ruin classes (Mason 1968:169). These are as follows: In 1968 the archaeologist Revil Mason conducted an aerial survey of archaeological sites which covered most of the present Gauteng Province. With the focus on site layout he

A dispersed set of isolated circles seeming to form a related whole	Class 4c:
periphery walling (Complex ruin)	
Closely related circular enclosures covering a large area; no enclosing	Class 4b:
enclosing periphery walling (Complex ruin)	
Scattered circular enclosures forming a closely related whole; no	Class 4a:
(Complex ruin)	
Circular enclosures enclosed by periphery-walling (may be scalloped)	Class 3:
(Complex ruin)	
Two or more large circles composed of interlocking small circles	Class 2b:
enclosures (Complex ruin)	
Circular open space defined by several attached semi-circular	Class 2a:
Isolated circle or a few adjacent but Isolated circles (Simple ruin)	Class T.

recorded in the vicinity of Suikerbosrand River (Mason 1968:169): The survey identified 6237 settlements. The following stone-walled Iron Age sites were

Class 5

(Complex ruin)

Scattered irregular walling with no definite plan identified (Complex

212	Class 1
8	Class 2
525	Class 3
49	Class 4a
794	Total

excavations focussed on structures (i.e. hut floors) and middens of stone-walled settlements which can be classified as Class 3. A radio carbon (C14) date from a hut at site 103/73 yielded a date of 1850 BP (Before Present) (Mason 1986:608-628). During 1973 Mason also documented and excavated several Late Iron Age sites in the Suikerbosrand Nature Reserve of which he excavated three (site no: 101-103/73). The

7.3 Ethnohistorical Sequence

present-day (Ellenberger 1912:34,35,351). marriage between chief Mathula and the daughter of Keketsi, the leader of the Bofokeng at they arrived in the region they encountered the Bofokeng. Tension was resolved with the The Maphuting people settled in the area of present-day Heidelberg in the 1690s under their chief kgosi Mathula. They are a Tswana group with the duiker as their totem. However, when Ratsebe, Falatse, Pali and Falatse II (ruled until 1880)) and remained in the area until the The Maphuting people were ruled by various prominent chiefs (Khoase, Motsoane

8. Description of Sites

Sites that were identified during the survey are archaeological sites dated to the late (stonewalled) phase of the Late Iron Age (c. AD 1640 - AD 1830s). Due to the nature of the mountain range of these sites probably functioned as cattle outposts on the periphery of the Suikerbosrand surrounded by hilltops. Mainly Class 1 sites were constructed in these secluded locals. Most topography of the area the archaeological sites are mostly situated in high-lying areas

the period AD 1425 and AD 1675 was generally warm and wet (cf. Tyson 1992). As a result, generally hotter and wetter conditions than today. Between AD 1295 - AD 1780 the region All the archaeological sites are situated in close proximity to water. Recent climatic research indicates that between AD 900 - AD 1295 southern Africa experienced a 'Warm Epoch' with past conditions in the area probably was at times even more favourable for grain cultivation experienced a so-called 'Little Ice Age' with generally colder and drier conditions. Although (e.g. sorghum, millet and various types of beans) than today

8.1 Site 1

approximately 0,5 metres high and the diameter of the enclosures vary between 7 and 25 metres. Two of the larger enclosures each have a conjoined smaller enclosure. No hut remains, middens or cultural material were recorded on the surface cattle and calves) constructed in between large boulders on a spur. The stone walls are This site is characterised by a cluster of six associated livestock enclosures (probably for

8.2. Site 2

on the surface were recorded inside the main enclosure. No hut remains or cultural material were recorded diameter) were recorded approximately 50 metres to the A large stone-walled enclosure (15 metres in diameter) with a conjoining smaller enclosure (5 metres in diameter). No dung deposits were recorded inside the enclosure. An additional large enclosure (15 metres in diameter) and conjoining smaller enclosure (7 metres in south of the first. Dung deposits

8.3 Site 3

adjacent stone-walled enclosure (also 15 metres in diameter). other hut remains or middens were recorded Two large conjoined roughly 0,5 metres and they are constructed in between large boulders on a spur. No stone-walled enclosures (each 15 metres in diameter) with one enclosure (also 15 metres in diameter). The height of the stone walls

8.4 Site 4

dung deposits, with a conjoined smaller enclosure (approximately 3 metres in diameter). The walling is roughly 1,4 metres high (An additional stone-walled enclosure nearby. No hut remains were found A circular stone-walled enclosure (approximately 18 metres in diameter), which contains roughly metres 5 diameter; walling roughly 0,3 metres high) was

8.5 Site 5

height of the stone wall is approximately 0,5 metres. Upright foundation stones that are positioned in a circle were recorded at the opening of the stone wall arc. These foundation stones indicate the possible remains of a hut. No midden deposits were recorded in the enclosures This site consists of a long semi-circular stone wall arc approximately 20 metres long. The

8.6 Site 6

An extensive elliptical stone-walled enclosure (approximately 30 x 10 metres) surrounded by a semi-circular stone wall approximately 50 metres in extent (The stone walls are roughly 0,5 metres high. No hut remains or middens were recorded.

8.7 Site 7

metres and they are constructed in between large boulders on a spur. A circular stone-walled enclosure (approximately 20 metres in diameter) and an adjacent smaller enclosure (approximately 3 metres in diameter) The height of the stone walls is 0,5

8.8 Site 8

this smaller structure was probably a shelter used by the young boys looking after the cattle in the vicinity of the enclosures (enclosure demarcated by upright stones (approximately 2 metres in diameter) was recorded Middens deposits were recorded in the open area in between the enclosures. A circular Two stone-walled enclosures (each approximately 10 metres in diameter) situated adjacent to each other, in between large boulders. The height of the stone walls is 0,5 metres.). If the large enclosures were used as cattle outposts,

8.9 Site 9

enclosures. walls vary An extensive stone-walled enclosure approximately 25×20 metres in extent, conjoined smaller enclosure (approximately 7 metres in diameter). The height of the between 0,5 and 1 metres Dung deposits were recorded The height of the stone with a

8.10 Site 10

walling is 0,5 metres and no dung deposits or hut remains were recorded An isolated stone-walled enclosure (approximately 10 metres in diameter). The height of the

8.11 Site 11

enclosure (approximately 10 metres in diameter) was recorded adjacent to the first two. metres and no dung deposits or hut respectably) situated in between large natural boulders. The height of the walling is 0,5 metres and no dung deposits or hut remains were recorded. An additional stone-walled height of the stone wall is 1 metre Two extensive stone-walled circular enclosures (approximately 15 and 20 metres in diameter

8.12 Site 12

ne ne

8.13 Site 13

middens associated with this site The site consists of four conjoined stone-walled enclosures (varying between 10 to 15 metres in diameter). The height of the stone walls is 0,7 metres. No hut remains and stone-walled enclosures (varying between 10 to 5

8.14 Site 14

(cupule) was recorded on the site which might be associated with rainmaking rituals were recorded in the central open area of the site (generally approximately 6 demarcating the site on the one side is approximately 50 metres long. Indications of middens were found diameter). The height of the stone walls vary between 0,5 and 1 metres. A large dolly hole An extensive site situated on a terrace on the slope of a mountain. A periphery stone wall demarcating the site on the one side is approximately 50 metres long. Several enclosures

8.15 Site 15

is probably associated with Site 16. No middens were recorded An extensive network of interconnected circular stone walls. The height of the stone walls is only 0,2 metres which makes it difficult to determine to full extent of the settlement. The site

8.16 Site 16

diameter) on the inside. The height of the walls is 0,3 metres. No midden was recorded A circular stone-walled enclosure with a small central enclosure (approximately 3 metres 3

8.17 Site 17

metres. No other structures of middens were recorded in the area are conjoined while one is free-standing. A cluster of circular stone-walled enclosures (each 5 metres in diameter). Two enclosures The average height of the stone walls is 0,5

8.18 Site 18

periphery stone wall undecorated potsherd was found on the surface. (compartments). The height of the stone walls varies between 0,2 and 1 metres. periphery wall. The central area inside the settlement is sub-dived into several enclosure A Late Iron Age circular stone-walled complex (approximately 50 metres in diameter) with a A large midden was recorded inside the

8.19 Site 19

characterised by a periphery wall which encompass several inner circular enclosure (5 metres in diameter) which are conjoined to the periphery wall. The height of the stone walls varies between 0,5 and 1 metres. A large midden was recorded inside the periphery stone A Late Iron Age circular stone-walled complex (70 metres in diameter). The settlement is enclosure (5

8.20 Site 20

area well as the long time sequence these engravings represent (engravings are dated from highlighted by the representation of the various people (locals and visitors) who visited the South African Heritage Resources Act (Act no. 25 of 1999). The uniqueness of this site is 1920s to 2000). A historic graffiti site characterised by superimposed names and dates engraved by people

8.21 Site 21

residents. Most of the graves are more than 60 years old and are therefore protected by the South African Heritage Resources Act (Act no. 25 of 1999), and the Human Tissues Act, 1983 (Act No. 65 of 1983 as amended). This cemetery is highly significant and will not be disturbed by the proposed development activities approximately 1,5 metres high. The graves are probably associated with former Heidelberg have been vandalised (The cemetery is demarcated by a dressed stone wall which is graves. The graves are demarcated by headstones. Unfortunately some of the headstones A formal cemetery which is approximately 60 x 30 metres in extent, containing roughly 30

8.22 Site 22

significant and will not be disturbed by the proposed development activities Heidelberg residents. Most of the graves are more than 60 years old and are therefore protected by the South African Heritage Resources Act (Act no. 25 of 1999), and the Human Tissues Act, 1983 (Act No. 65 of 1983 as amended). This cemetery is highly which is approximately 1,5 A formal cemetery which is approximately 100×50 metres in extent, containing more than 300 graves. The graves are demarcated by headstones (also various marble constructions) and packed heaps of stone (\blacksquare \blacksquare \blacksquare). The cemetery is demarcated by a dressed stone wall metres high. The graves are probably associated with former

Summary of Sites

Site No	Site Type	Position	Significance	Impact
_	Late Iron Age settlement	S26.48921 E28.33637	High	None
2	Late Iron Age settlement	S26.48986 E28.33583	High	None
ယ	Late Iron Age settlement	S26.48974 E28.33664	High	None
4	Late Iron Age settlement	S26.49049 E28.33628	High	None
ഗ	Late Iron Age settlement	S26.49095 E28.33655	High	None
o o	Late Iron Age	S26.49104	High	None
	settlement	EZ8.33687		

		1	T		T .											
22	2	20	19	18	17	16	15	14	13	12	<u> </u>	10	9	œ	7	
Formal Cemetery	Formal Cemetery	Historic Graffiti	Late Iron Age settlement	settlement												
S26.49516 E28.34648	S26.49549 E28.34619	S26.48697 E28.33962	S26.48078 E28.33644	S26.48170 E28.33646	S26.48514 E28.33794	S26.48550 E28.33788	S26.48575 E28.33750	S26.48654 E28.33494	S26.48857 E28.33488	S26.49255 E28.33846	S26,49271 E28,33922	S26.49060 E28.33780	S26.49062 E28.33814	S26.49022 E28.33825	S26.48976 E28.33826	E28.33687
High	High	High	High	High	High	High	High	High	High	High	High	High	Hìgh	High	High	
None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	None	

10. Conclusions and Recommendations

the proposed development No archaeological or historical settlements or remains (including graves) will be affected by

Please note the following:

- estate if the archaeological remains are be used for recreation purposes (NHRA, Section 44). Heritage Conservation Management Plan (HCMP) should be compiled for the
- during construction, such activities should be halted, and a university or museum notified in order for an investigation and evaluation of the find(s) to take place (cf. NHRA (Act No. 25 of 1999), Section 36 (6)). level. Should archaeological artefacts or skeletal material be revealed in the area It should be kept in mind that archaeological deposits usually occur below ground

Bibliography

Ellenberger, D.F. 1912. History of the Basuto. Morija Printing Works. Lesotho

Evers, T.M. 1975. Recent Iron Age research in the Eastern Transvaal, South Africa. South African Archaeological Bulletin. Vol 30.

Marker, M.E. & Evers, T.M. 1976. Iron Age Settlements and soil e Transvaal, South Africa. South African Archaeological Bulletin. Vol. 31. T.M. 1976. Iron Age Settlements and soil erosion in the Eastern

Mason, R.J. 1968. Transvaal and Natal Iron Age settlement revealed by aerial photography and excavation. *African Studies*. Vol. 27.

Mason, Unit. University of the Witwatersrand. Central Transvaal AD R.J. 1986. Origins of Black People of Johannesburg and the Southen AD 350 - 1880. Occasional Paper No. 16 of the Archaeology Southern Western Research

MA dissertation. University of the Witwatersrand Schoeman, ≤ I 1997. The Ndzundza Archaeology of the Steelpoort Valley. Unpublished

Tyson, P.D. 1992. The climate of the last 2000 years Vol. 2. in Southern Africa. The Holocene

Van Vuuren, C.J. 1995 The Ndebele in Levinson, D. (ed). Encyclopaedia of World Cultures. G.K. Hall & Co: Boston. pp.235-238. Co: Boston. pp.235-238

Government Printer: Pretoria Van Warmelo Z. 1935. D Preliminary Survey of the Bantu Tribes of South Africa. The

Whitelaw, G. 1996. Lydenburg revisited: Another look at the Mpumalanga Early Iron Age sequence. *The South African Archaeological Bulletin*. No. 164. pp. 75-83.