

Phase 1 Archaeological and Heritage Impact Assessment on the farm  
Hilversum 696 JT, in respect of proposed agricultural development,  
Umjindi Local Municipality, Barberton, Mpumalanga Province.

Compiled by:



**For Henwood Environmental Solutions**

Surveyor: Mr JP Celliers

10 April, 2019

I, Jean-Pierre Celliers as duly authorised representative of Kudzala Antiquity CC, hereby confirm my independence as a specialist and declare that neither I nor the Kudzala Antiquity CC have any interest, be it business, financial, personal or other, in any proposed activity, application or appeal in respect of which the client was appointed as Environmental Assessment practitioner, other than fair remuneration for work performed on this project.

SIGNATURE:

A handwritten signature in black ink, appearing to read 'J. Celliers', written over a horizontal line.

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## Executive summary

**Site name and location:** Portions 8 and 9 of the farm Hilversum 696 JT located northwest of Barberton, Umjindi, Mpumalanga Province.

**Purpose of the study:** An archaeological and heritage study in order to identify cultural heritage resources in respect of proposed agricultural development.

**Topographical Maps:** 1:50 000 2530 DD (1943, 1968, 1984).

**EIA Consultant:** Henwood Environmental Solutions

**Client:**

**Heritage Consultant:** Kudzala Antiquity CC.

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**Report date:** 10 April 2019

### **Description and findings:**

An Archaeological and Heritage Impact Assessment was undertaken by Kudzala Antiquity CC in respect of the proposed development of agricultural activities on Portions 8 and 9 of the farm Hilversum 696 JT located within Umjindi Local Municipality in Mpumalanga Province. The study was done with the aim of identifying sites which are of heritage significance on the identified project area and assess their current preservation condition, significance and possible impact of the proposed action. This forms part of legislative requirements as appears in section 38 of the National Heritage Resources Act (Act No. 25 of 1999) and the National Environmental Management Act (NEMA, 17 of 1998).

The survey was conducted on foot and with the aid of a motor vehicle in an effort to locate archaeological remains and historic sites, structures and features. An archival study including scrutiny of previous heritage surveys of the area formed the baseline information against which the survey was conducted.

A single site numbered HB 1 was recorded during the survey. This consists of the ruined remains of a farmstead. It is not regarded as being of heritage significance in terms of the built heritage environment (section 34 of the Act, 25 of 1999).

In terms of burial grounds and graves (section 36 of the Act) no sites were recorded. It is however possible that unmarked graves may have been missed due to the dense nature of the vegetation on the property. A watching brief is recommended during bush clearing activities and should be included in the EMP.

In terms of the archaeological component of the Act (section 35) no sites were recorded.

A total of twenty (20) survey orientation locations were documented (SO 1-20) which includes a GPS location and photographs of the landscape at that particular location.

It is not within the expertise of this report or the surveyor to comment on possible paleontological remains which may be located in the study area.

**Disclaimer:** *Although all possible care is taken to identify all sites of cultural importance during the investigation of study areas, it is always possible that hidden or sub-surface sites could be overlooked during the study. Kudzala Antiquity CC will not be held liable for such oversights or for costs incurred as a result of such oversights.*

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- The technology described in any report; and
- Recommendations delivered to the client.

# Introduction

## 1.1. Terms of reference

Kudzala Antiquity CC was commissioned to conduct an archaeological and heritage resources survey on approximately 75 hectares of the farm Hilversum 696 JT located in Umjindi Local Municipality in Mpumalanga Province. The survey was conducted in respect of the potential impact of the proposed expansion of agricultural activities on archaeological and heritage resources. The survey was conducted for Henwood Environmental Solutions.

### 1.1.1 Project overview

The client is in the process of obtaining environmental authorization to establish orchards on certain portions of the farm Hilversum 696 JT in the Umjindi Local Municipal area, Mpumalanga. The project footprint areas include areas of previous cultivation which is approximately 75 hectares in extent (see maps Appendix C).

### 1.1.2. Constraints and limitations

On most of the project area, surface visibility and access was reduced due to very dense bush and undergrowth which included large numbers of Guava (*Psidium guajava*), Lantana (*Lantana camara*, *Verbenaceae*) and sickle bush (*Dichrostachys cinerea*) and very dense grass cover. This limited exploration of certain areas especially where previous agricultural activity took place.

## 1.2. Legislative Framework

The National Heritage Resources Act (NHRA) (Act No. 25, 1999) and the National Environmental Management Act (NEMA) (Act No. 107 of 1998) require that individuals or institutions have specialist heritage impact assessment studies undertaken whenever development activities are planned and such activities trigger activities listed in the legislation. This report is the result of an archaeological and heritage study in accordance with the requirements as set out in Section 38 (3) of the NHRA in an effort to ensure that heritage features or sites that qualify as part of the national estate are properly managed and not damaged or destroyed.

The study aims to address the following objectives:

- Analysis of heritage issues;
- Assess the cultural significance of identified places including archaeological sites and features, buildings and structures, graves and burial grounds within a specific historic context;
- Identifying the need for more research;
- Surveying and mapping of identified places including archaeological sites and features, buildings and structures, graves and burial grounds;
- A preliminary assessment of the feasibility of the proposed development or construction from a heritage perspective;
- Identifying the need for alternatives when necessary; and
- Recommending mitigation measures to address any negative impacts on archaeological and heritage resources.

Heritage resources considered to be part of the national estate include those that are of archaeological, cultural or historical significance or have other special value to the present community or future generations.

The national estate may include:

- places, buildings, structures and equipment of cultural significance;
- places to which oral traditions are attached or which are associated with living heritage;
- historical settlements and townscapes;
- landscapes and natural features of cultural significance;
- geological sites of scientific or cultural importance;
- archaeological and paleontological sites;
- graves and burial grounds including:
  - (i) ancestral graves;
  - (ii) royal graves and graves of traditional leaders;
  - (iii) graves of victims of conflict;
  - (iv) graves of individuals designated by the Minister by notice in the *Gazette*;
  - (v) historical graves and cemeteries; and other human remains which are not covered in terms of the Human Tissue Act, 1983 (Act No. 65 of 1983);
- sites of significance relating to slavery in South Africa;
- movable objects including:
  - (i) objects recovered from the soil or waters of South Africa, including archaeological and paleontological objects and material, meteorites and rare geological specimens;

- (ii) objects to which oral traditions are attached or which are associated with living heritage
- (iii) ethnographic art and objects;
- (iv) military objects
- (v) objects of decorative or fine art;
- (vi) objects of scientific or technological interest; and
- (vii) books, records, documents, photographic positives and negatives, graphic, film or video material or sound recordings, excluding those that are public records as defined in section 1 of the National Archives of South Africa Act, 1996 (Act No. 43 of 1996).

Cultural resources are unique and non-renewable physical phenomena (of natural occurrence or made by humans) that can be associated with human (cultural) activities (Van Vollenhoven 1995:3). These would be any man-made structure, tool, object of art or waste that was left behind on or beneath the soil surface by historic or pre-historic communities. These remains, when studied in their original context by archaeologists, are interpreted in an attempt to understand, identify and reconstruct the activities and lifestyles of past communities. When these items are removed from their original context, any meaningful information they possess is lost, therefore it is important to locate and identify such remains before construction or development activities commence.

### **1.3. Approach and statutory requirements**

The SAHRA Minimum standards of 2007 guideline document, forms the background against which the survey was planned and the report compiled. An Archaeological Impact Assessment (AIA) consists of three phases. This document deals with the first phase. This (phase 1) investigation is aimed at getting an overview of cultural resources in the project area, assigning significance to these resources, assessing the possible impact that the proposed activity may have on these resources, making recommendations pertaining to the management of heritage resources and putting forward mitigation measures where applicable.

When the archaeologist or heritage specialist encounters a situation where the planned project will lead to the destruction or alteration of an archaeological/ heritage site or feature, a second phase investigation is normally recommended. During a phase two investigation mitigation measures are put in place and detailed investigation into the nature of the cultural material is undertaken. Often at this stage, archaeological excavation and detailed mapping of a site is carried out in order to document and preserve the cultural heritage.

Phase three consists of the compiling of a management plan for the safeguarding, conservation, interpretation and utilization of cultural resources (Van Vollenhoven, 2002).



Continuous communication between the developer and heritage specialist after the initial assessment has been carried out may result in the modification of a planned route or development to incorporate or protect existing archaeological and heritage sites.

## **2. Description of surveyed area**

The study area falls within the Umjindi Local Municipality, near the town Barberton, Mpumalanga Province. The survey was carried out in an area where the Legogote Sour Bushveld veld type predominates. The project area is located on the farm Hilversum 696 JT and approximately 75 hectares in size. The proposed activity is the establishment of agricultural fields or orchards.

**Veld type:** The vegetation forms part of the Savanna Biome and classed as Legogote Sour Bushveld. This veld type occurs in Mpumalanga and Limpopo Provinces on the lower eastern slopes and hills or the northeastern escarpment from Mariepskop in the north through White River to the Nelspruit area and extending westwards up valleys of the Crocodile, Elands and Houtbosloop Rivers and terminating in the south in the Barberton area. Altitude is 600-1000 m and sometimes higher. The landscape is characterised by gently to moderately upper pediment slopes with dense woodland including many medium to large shrubs, short thicket occurs on less rocky sites (Mucina and Rutherford, 2009).

**Geology and soils:** The larger part of the area is underlain by gneiss and migmatite of the Nelspruit Suite but the southern part occurs on the potassium-poor rocks of the Kaap Valley Tonalite. Pretoria Group shale and quartzite occur in the westernmost areas. Archaean granite plains with granite inselbergs and large granite boulders also occur (Mucina and Rutherford, 2009).

**Limiting factors:** As mentioned under Constraints and Limitations above, in most parts of the project areas dense undergrowth and impenetrable thicket which limited the exploration of certain areas.

### 3. Methodology

This study consists of a detailed archival study in order to understand the study area in a historical timeframe, an archaeological background study which include scrutiny of previous archaeological reports of the area, obtained through the SAHRIS database, and published as well as unpublished written sources on the archaeology of the area, social consultation with people who live nearby and a lastly a physical survey of the affected and immediate area.

The South African Heritage Resources Agency (SAHRA) and the relevant legislation (NHRA) require that the following components be included in an archaeological impact assessment:

- Archaeology;
- Shipwrecks;
- Battlefields;
- Graves;
- Structures older than 60 years;
- Living heritage;
- Historical settlements;
- Landscapes;
- Geological sites; and
- Paleontological sites and objects.

All the above-mentioned heritage components are addressed in this report, except shipwrecks, geological sites and paleontological sites and objects.

The **purpose** of the archaeological, archival and heritage study is to establish the whereabouts and nature of cultural heritage sites should they occur on project area. This includes settlements, structures and artefacts which have value for an individual or group of people in terms of historical, archaeological, architectural and human (cultural) development.

The **aim** of this study is to locate and identify such objects or places in order to assess and rate their significance and establish if further investigation is needed. Mitigation measures can then be suggested and put in place when necessary.

#### 3.1. Archaeological and Archival background studies

The purpose of the desktop study is to compile as much information as possible on the heritage resources of the area. This helps to provide an historical context for located sites. Sources used for

this study include published and unpublished documents, archival material and maps. Information obtained from the following institutions or individuals were consulted:

- Published and unpublished archaeological reports and articles;
- Published and unpublished historical reports and articles;
- Archival documents from the National Archives in Pretoria;
- Historical maps; and
- South African Heritage Resource Information System (SAHRIS) database.

### **3.1.1. Previous archaeological studies in the area**

Some archaeological impact assessments (AIA's) and heritage impact assessments have been done in the vicinity of the proposed development area.

In 2002 Mr JA van Schalkwyk conducted an "Archaeological survey of a section of the Secunda-Mozambique Gas Pipeline, Barberton District, Mpumalanga". He identified five Late Iron Age stonewalled sites and four informal cemeteries.

In 2015 Adansonia Heritage Consultants conducted a "Phase 1 Archaeological and Heritage Impact Assessment of the stone walled settlements on Taurus Plantation, Barberton District, Mpumalanga Province". During the study twenty five LIA stone walled enclosures were identified together with five historical features and five burial sites.

### **3.1.2. Historic maps**

Historical maps obtained during the archival study were scrutinized and features that were regarded as important in terms of heritage value were identified and if they were located within the boundaries of the project area they were physically visited in an effort to determine:

- (i) whether they still exist;
- (ii) their current condition; and
- (iii) significance.

### 3.3. Heritage site significance

The South African Heritage Resources Agency (SAHRA) formulated guidelines for the conservation of all cultural resources and therefore also divided such sites into three main categories. These categories might be seen as guidelines that suggest the extent of protection a given site might receive. They include sites or features of local (Grade 3) provincial (Grade 2) national (Grade 1) significance, grades of *local significance* and *generally protected* sites with a variety of degrees of significance.

For practical purposes the surveyor uses his own classification for sites or features and divides them into three groups, those of low or no significance, those of medium significance and those of high significance (**Also see table 5.2. Significance rating guidelines for sites**).

Values used to assign significance and impact characteristics to a site include:

- **Types of significance**

The site's scientific, aesthetic and historic significance or a combination of these is established.

- **Degrees of significance**

The archaeological or historic site's rarity and representative value is considered. The condition of the site is also an important consideration.

- **Spheres of significance**

Sites are categorized as being significant in the international, national, provincial, regional or local context. Significance of a site for a specific community is also taken into consideration.

To arrive at the specific allocation of significance of a site or feature, the specialist considers the following:

- Historic context;
- Archaeological context or scientific value;
- Social value;
- Aesthetic value; and
- Research value.

More specific criteria used by the specialist in order to allocate value or significance to a site include:

- The unique nature of a site;
- The integrity of the archaeological deposit;
- The wider historic, archaeological and geographic context of the site;

- The location of the site in relation to other similar sites or features;
- The depth of the archaeological deposit (when it can be determined or is known);
- The preservation condition of the site;
- Quality of the archaeological or historic material of the site; and
- Quantity of sites and site features.

Archaeological and historic sites containing data, which may significantly enhance the knowledge that archaeologists currently have about our cultural heritage, should be considered highly valuable. In all instances these sites should be preserved and not damaged during construction activities. However, when development activities jeopardize the future of such a site, a second and third phase in the Cultural Resource Management (CRM) process is normally advised. This entails the excavation or rescue excavation of cultural material, along with a management plan to be drafted for the preservation of the site or sites.

Graves are considered very sensitive sites and should never under any circumstances be jeopardized by development activities. Graves and burial grounds are incorporated in the NHRA under section 36 and in all instances where graves are found by the surveyor, the recommendation would be to steer clear of these areas. If this is not possible or if construction activities have for some reason damaged graves, specialized consultants are normally contacted to aid in the process of exhumation and re-interment of the human remains.

## 4. History and Archaeology

### 4.1. Historic period

#### 4.1.1. Early History

In Southern Africa the domestication of the environment began only a couple of thousands of years ago, when agriculture and herding were introduced. At some time during the last half of the first millennium BC, people living in the region where Botswana, Zambia and Angola are today, started moving southward, until they reached the Highveld and the Cape in the area of modern South Africa. As time passed and the sub-continent became fully settled, these agro-pastoralists, who spoke Bantu languages, started dominating all those areas which were ecologically suitable for their way of life. This included roughly the eastern half of modern South Africa, the eastern fringe of Botswana and the north of Namibia. Historians agree that the earliest Africans to inhabit in the Lowveld in Mpumalanga were of Sotho, or more particularly Koni-origin.

Up until the 1930s, malaria would have occurred sporadically in the study area during the rainy season. During the first half of the nineteenth century, Tsetse flies also thrived in this area. Pastoralists would have avoided the moist low-lying valleys and thickly wooded regions where these insects preferred to congregate. It is unlikely that populations would be dense in areas where malaria and the “sleeping sickness” transferred by Tsetse flies was a constant threat to humans and their stock (Bergh 1999: 3; Shillington 1995: 32).

In a few decades, the course of history in the old Transvaal province would change forever. The Difaqane (Sotho), or Mfekane (“the crushing” in Nguni) was a time of bloody upheavals in Natal and on the Highveld, which occurred around the early 1820s until the late 1830s. It came about in response to heightened competition for land and trade, and caused population groups like gun-carrying Griquas and Shaka’s Zulus to attack other tribes.

During the time of the Difaqane, a northwards migration of white settlers from the Cape was also taking place. Some travellers, missionaries and adventurers had gone on expeditions to the northern areas in South Africa – some as early as the 1720’s. One such an adventurer was Robert Schoon, who formed part of a group of Scottish travellers and traders who had travelled the northern provinces of South Africa in the late 1820s and early 1830s. Schoon had gone on two long expeditions in the late 1820s and once again ventured eastward and northward of Pretoria in 1836 (Bergh, 1999: 13, 116-121).

By the late 1820s, a mass-movement of Dutch speaking people in the Cape Colony started advancing into the northern areas. This was due to feelings of mounting dissatisfaction caused by economical and other circumstances in the Cape. This movement later became known as the Great Trek. This migration resulted in a massive increase in the numbers of people of European descent.

As can be expected, the movement of whites into the Northern provinces would have a significant impact on the local farmer – herders who populated the land.

By 1860, the population of Europeans in the central Transvaal was already very dense and the administrative machinery of their leaders was firmly in place. Many of the policies that would later be entrenched as legislation during the period of apartheid had already been developed (Ross 2002: 39; Bergh, 1999: 170).

However, relations were at times also interdependent in nature. After the Great Trek, when European farmers had settled at various areas in the northern provinces, wealthier individuals were often willing to lodge needy white families on their property in exchange for odd jobs and commando service. These “bywoners” often arrived with a family and a few cows. He would till the soil and pay a minimal rent to the farmer from the crops he grew. The farmer did not consider him a labourer, but mostly kept native workers for hard labour on the farm.

The discovery of gold in South Africa had a major impact in the region. In 1873 gold was discovered in Pilgrims Rest, 80 kilometres north of Nelspruit. This drew scores of prospectors into the region. The establishment of Barberton in 1884, after the discovery of the Sheba gold reef, also brought about greater activity in the area. The Nelspruit settlement first received official recognition in August 1884 (South African History Online 2013).

By 1949 the Nkosi of Mhola was the predominant tribe in the district west of Sheba Siding, consisting of government land and privately white-owned farms, the Barberton town lands, mine properties and company-owned land. The farm Hilversum 87 formed part of Moodies Estates, which was mine land. The tribe consisted mostly of Swazi-speakers, and Mhola Mvulo Nkosi was its chief. Nkosi was born ca. 1898, and assumed his duties as chief in ca. 1923. Myburgh notes that, “though recognized for administrative purposes only”, Nkosi was the most important chief in the district. He was an educated man. By 1949 the number of subordinates was estimated at nearly 11 000. The ruling family of the were the descendants of the Swazi king Mswati II, and they had their headquarters at eMjindini Village, Moodies (Myburgh 1949: 31-32).

A large Homeland was located a small distance to the east of Barberton, and later became known as Kangwane. This area was proclaimed by the Land Act of 1936. In the Surplus People Project Report, the forced removal of people to the Kangwane area, or homeland, is discussed. According to this source the area could be regarded as a “dumping ground” allocated to South Africa’s Swazis, consisting of two blocks of land. The first of these, the Nsikazi reserve, was a finger of land stretching along the western boundary of the Kruger National Park, and had been occupied for over 50 years. The second block was adjacent to the western and northern boundaries of Swaziland, and consisted of the Nkomazi and Mswati/Mlondozi reserves released under the 1935 Land Act (Bergh 1999: 42; Surplus people project 1983: 59).

#### **4.1.2. The Voortrekkers**

The Groot Trek of the Voortrekkers started with the Tregardt- van Rensburg trek in 1835. The two men met where Tregardt and his followers crossed the Orange River at Buffelsvlei (Aliwal North). Here van Rensburg joined the trek northwards. On August 23, 1837 the Tregardt trek left for Delagoabay from the Soutpansberg. They travelled eastwards alongside the Olifants River to the eastern foothills of the Drakensberg. From here they travelled through the Lowveld and the current Kruger National Park where they eventually crossed the Lebombo mountains in March 1838. They reached the Fortification at Lourenço Marques on 13 April 1838 (Bergh, 1998:124-125).

Permanent European (Voortrekker) settlement of the eastern areas of Mpumalanga can be traced back to a commission under the leadership of A.H. (Hendrik) Potgieter who negotiated with the Portuguese Governor at Delagoabaai in 1844 for land. It was agreed that these settlers could settle in an area that was four days journey from the east coast of Africa between the 10° and 26° south latitudes. Voortrekkers started migrating into the area in 1845. Andries-Ohrigstad was the first town established in this area in July 1845 after the Voortrekkers successfully negotiated for land with the Pedi Chief Sekwati. Farms were given out as far west as the Olifants River. The western boundary was not officially defined but at a Volksraad meeting in 1849 it was decided that the Elands River would be the boundary between the districts of Potchefstroom and Lydenburg as this eastern portion of the Transvaal was then known (Bergh, 1998).

Due to internal strife and differences between the various Voortrekker groups that settled in the broader Transvaal region, the settlers in the Ohrigstad area now governed from the town of Lydenburg decided to secede from the Transvaal Republic in 1856. The Republic of Lydenburg laid claim to a large area that included not only the land originally obtained from the Pedi Chief Sekwati in 1849 but also other areas of land negotiated for from the Swazis. The Republic of Lydenburg was a vast area and stretched from the northern Strydpoort mountains to Wakkerstroom in the south and Bronkhortsspruit in the west to the Swazi border and the Lebombo mountains east.

As can be expected, the migration of Europeans into the north would have a significant impact on the indigenous people who populated the land. This was also the case in Mpumalanga. In 1839 Mswati succeeded Sobhuza (also known as Somhlomo) as king of the Swazi. Threatened by the ambitions of his half brothers, including Malambule, who had support from the Zulu king Mpande, he turned to the Ohrigstad Boers for protection. He claimed that the land that the Boers had settled on was Swazi property. The Commandant General of the Ohrigstad settlement, Andries Hendrik Potgieter, responded that the land was ceded to him by the Pedi leader Sekwati, in return for protection of the Pedi from Swazi attacks (Giliomee, 2003).



However, in reaction to the increasingly authoritarian way in which Potgieter conducted affairs at Ohrigstad, the Volksraad of Ohrigstad saw Mswati's offer as a means to obtain more respectable title deeds for the property (Bonner, 1978). According to a sales contract set up between the Afrikaners and the Swazi people on 25 July 1846, the whites were the rightful owners of the land that had its southern border at the Crocodile River, which stretched out in a westerly direction up to Elandspruit; of which the eastern border was where the Crocodile and Komati rivers joined and then extended up to Delagoa bay in the north (Van Rooyen, 1951). The Europeans bought the land for a 100 heads of cattle (Huysen).

#### **4.1.3. History of the Anglo Boer War (1899-1902) in the area**

The discovery of diamonds and gold in the Northern provinces had very important consequences for South Africa. After the discovery of these resources, the British, who at the time had colonized the Cape and Natal, had intentions of expanding their territory into the northern Boer republics. This eventually led to the Anglo-Boer War, which took place between 1899 and 1902 in South Africa, and which was one of the most turbulent times in South Africa's history.

Even before the outbreak of war in October 1899 British politicians, including Sir Alfred Milner and Mr. Chamberlain, had declared that should Britain's differences with the Z.A.R. result in violence, it would mean the end of republican independence. This decision was not immediately publicised, and as a consequence republican leaders based their assessment of British intentions on the more moderate public utterances of British leaders. Consequently, in March 1900, they asked Lord Salisbury to agree to peace on the basis of the status quo ante bellum. Salisbury's reply was, however, a clear statement of British war aims (Du Preez, 1977).

During the British advance between February to September 1900, Lord Roberts replaced Genl. Buller as the supreme commander and applied a different tactic in confronting the Boer forces instead of a frontal attack approach he opted to encircle the enemy. This proved successful and resulted for instance in the surrender of Genl. Piet Cronje and 4000 burghers at Paardeberg on 27 February 1900.

This was the start of a number of victories for the British and shortly after they occupied Pretoria on 5 June 1900, a skirmish at Diamond Hill resulted in the Boer forces under command of Louis Botha, retreated alongside the Delagoa Bay railway to the east. Between the 21-27 August, Botha and 5000 burghers defended their line at Bergendal but were overwhelmed by superior numbers and artillery. This resulted in the Boer forces retreating even further east and three weeks later the British reached Komatipoort and thus the whole of the Eastern Transvaal south of the Delagoa Bay railway line was now occupied by British Forces. General Louis Botha, with his Boer forces, marched through Nelspruit on 11 September 1900. A week later, on 18 September 1900, the British battalion of Lieutenant General F. Roberts arrived in Nelspruit. No major skirmishes in the war took place near

Nelspruit, but a concentration camp for black people was established a small distance to the north of the town. Another event of import in the area was the arrival of the President of the Transvaal, Paul Kruger, in Nelspruit on 29 May 1900, where he received a message saying Lord Roberts had annexed the Transvaal. Kruger declared the annexation illegitimate on 3 September 1900, the same day that Nelspruit was proclaimed as the administrative capital of the Transvaal Republic. Kruger left Nelspruit in June of that year in order to board a ship to Swaziland (Bergh, 1999: 51; 54).

No major skirmishes in the war took place near Barberton, but a white concentration camp was established a small distance to the west of the town (Bergh, 1999: 54).

#### **4.1.4. Historic maps of the study area**

The study area is located to the west of Selapi, approximately two kilometres to the south of the R38 and about 13 kilometres west of Barberton.

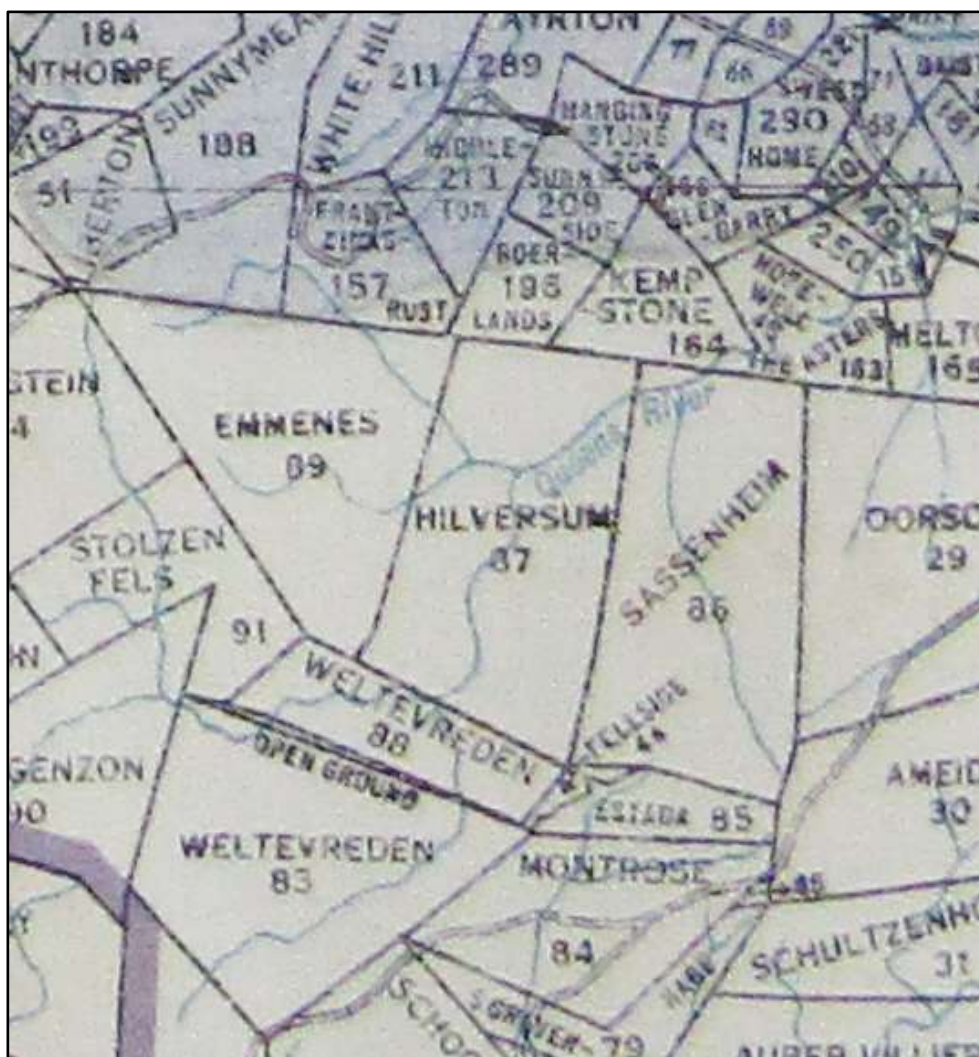
Since the mid-1800s up until the present, South Africa has been divided and re-divided into various districts. Since 1845, Barberton and the farms to the west thereof, including the farm Hilversum, formed part of the Lydenburg district. This remained the case up until 1902, when the Barberton district was proclaimed. By 1994, Hilversum was still located in the Barberton district. (Bergh, 1999: 17, 20-27).

By 1902 the property was possibly known as Hilversum 8. This name had been changed to Hilversum 87 by 1907, and it was changed again to Hilversum 696 JT in the 1950s.



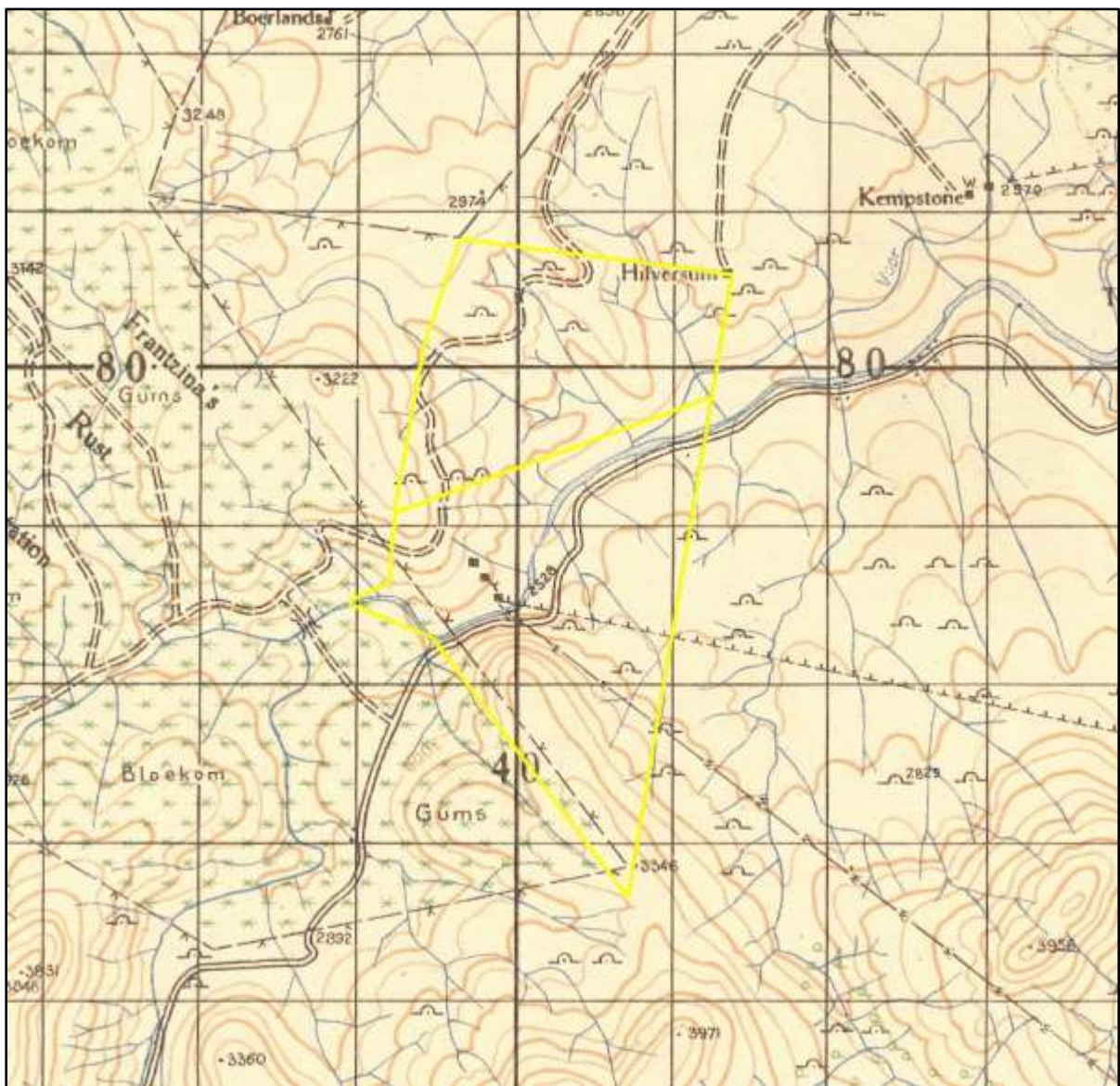
**Figure 4.1.** Major Jackson Map of the Barberton district in 1902. The approximate location of Portions 8 and 9 on Hilversum is indicated with a yellow border. The Queens River went through the study area. No buildings or developments can be seen on the property (Major Jackson 1902).



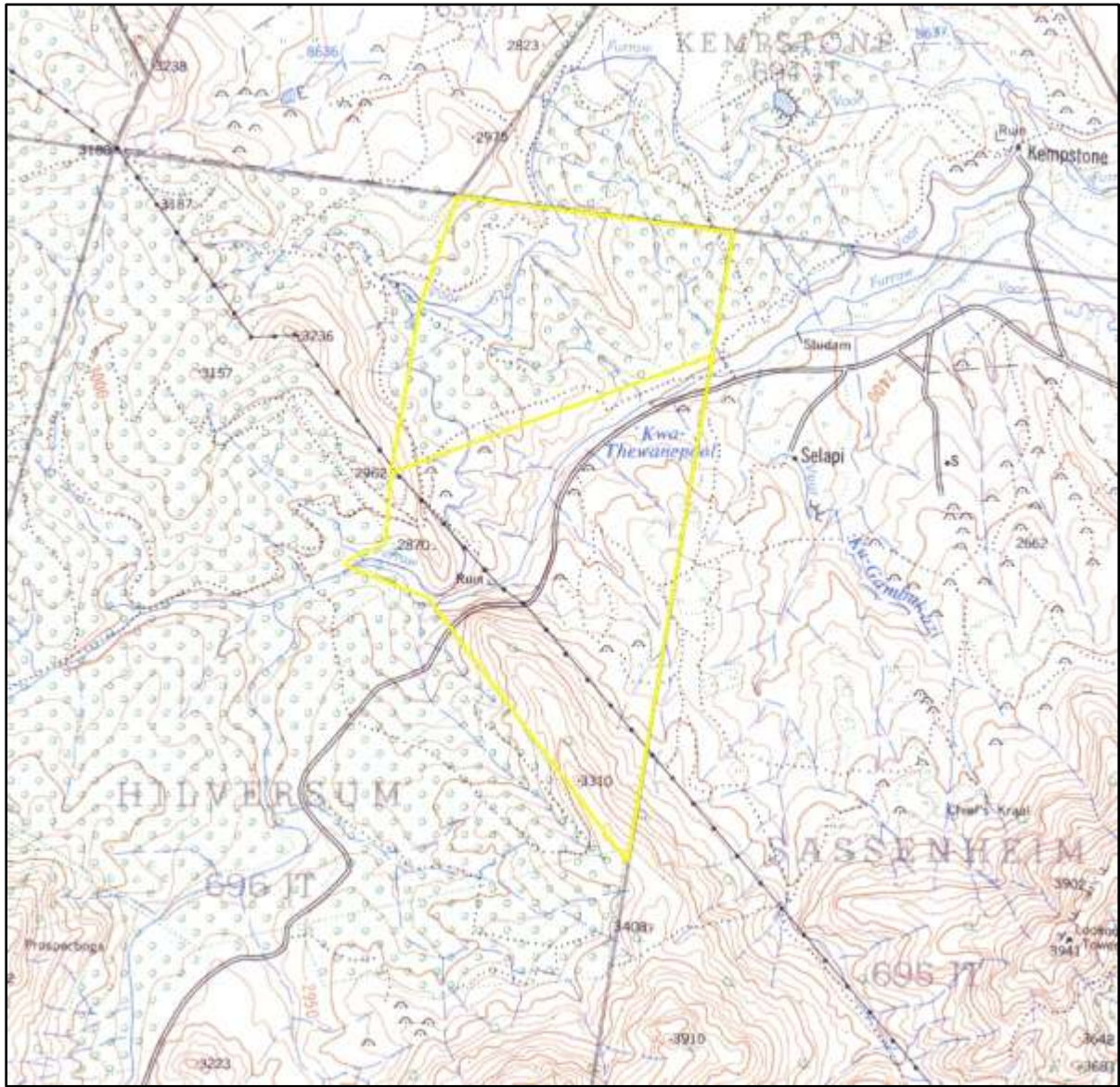


**Figure 4.3.** Map of the Kruger National Park, dating approximately to the 1930s. The property was still known as Hilversum 87, and the Queens River flowed through the farm (NASA Maps: 3/1254).



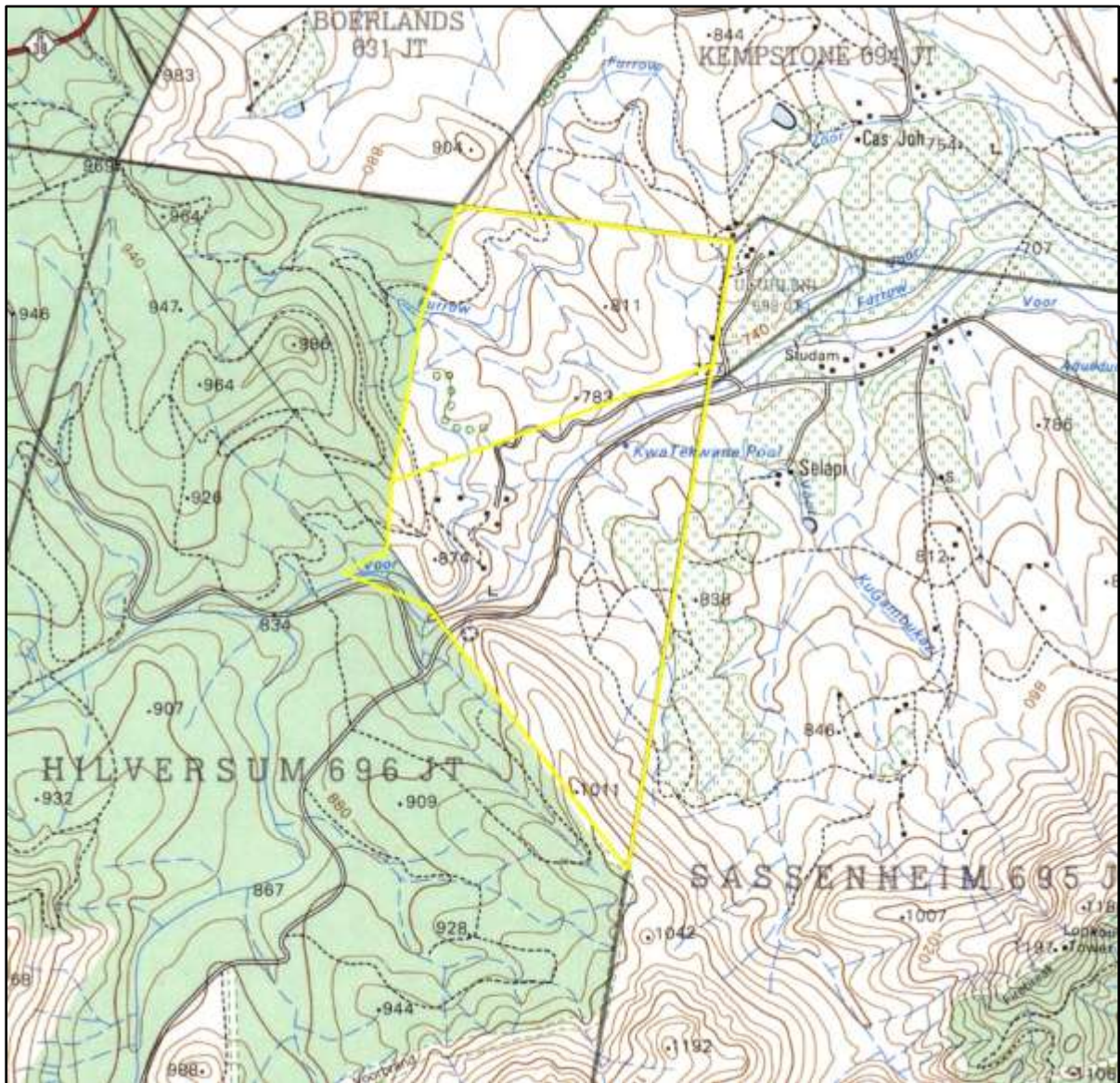


**Figure 4.4.** Topographical map of the study area dated to 1943. The approximate location of Portion 8 (south) and 9 (north) of Hilversum is indicated with a yellow border. A main road is visible to the south of the Queens River which flows through the property, and another along the western boundary. Other developments on the properties included approximately seven traditional huts / kraals on Portion 9 and three buildings, three huts / kraals, a telephone line and fences on Portion 8 of Hilversum. A western strip of land on Portion 8 was used for forestry (Topographical Map, 1943).



**Figure 4.5.** Topographical map of the study area dated 1968. The approximate location of Portion 8 (south) and 9 (north) of Hilversum 696 JT is indicated with a yellow border. Portion 9 was a wooded area, and a number of tracks / footpaths went through the property. Developments on Portion 8 of Hilversum included a minor road, a power line, several tracks / footpaths, a ruin, the Kwa-Thewanepool waterhole, nine traditional huts / kraals and sections of cultivated land along the eastern boundary (Topographical Map, 1968).





**Figure 4.6.** Topographical map of the study area in the year 1984. The approximate location of Portion 8 and 9 of Hilversum 696 JT is indicated with a yellow border. A few tracks / footpaths went through Portion 9 of Hilversum, and one can see a building near the eastern boundary. Developments on Portion 8 included two minor roads, a number of tracks / footpaths, a ruin, the Kwa Tekwane Pool, an excavation site, six buildings and a section of cultivated land along the eastern boundary (Topographical Map, 1984).



#### 4.1.5. Historical overview of the ownership and development of Hilversum 696 JT.

A number of sources were consulted in the National Archives of South Africa, and together with historical maps it is possible to learn how the landscape changed over time. Firstly, a record of historical landowners on the concerned properties will be provided. Thereafter follows a discussion of who lived in the study area and for what purpose the land was historically used.

##### Record of historical landowners

No information could be found regarding the first landowners of Hilversum. Some information regarding later landowners on the property could be found in other archival sources:

- By December 1909 Moodies Gold Mining and Exploration Co. Ltd. was the owner of Hilversum 87, and this was still the case by 1914. (NARSSA SAB, MNW: MM3777/09; NARSSA SAB, MNW: 241 MM1659/14)
- By 22 May 1929, Franzina's Rust Timber Plantation Limited was the registered owner of section B of the farm Hilversum 696 JT. This property was still owned by the company in 1965. (NARSSA SAB, CDB: 3/922 TAD9/48/32 [Part 1]; NARSSA SAB, CDB: 3/922 TAD9/48/32 [Part 2])
- According to Myburgh, Hilversum 87 was still owned by Moodies Gold Mining and Exploration Co. Ltd. by 1949. This probably excludes the portion that was owned by Franzina's Rust Timber Plantation Ltd. (Myburgh 1949: 31)
- By 1963, Twello Bosboukorporasie owned Portion 3 of Hilversum. (NARSSA SAB, CDB: 3/922 TAD9/48/32 [Part 1])
- Franzina's Rust Bosbou Limited sold the Remaining Extent of Portion 3 of Hilversum 696 to Lotzaba Forests Limited on 23 July 1991 (Deed of Transfer 2004).

The following information could be obtained regarding more recent landowners on the properties:

##### **Portion 8:**

| <b>Purchase date:</b> | <b>Transferred from:</b> | <b>Transferred to:</b> |
|-----------------------|--------------------------|------------------------|
| 1972                  | -                        | Selapi Landgoed CC     |
| 1992                  | Selapi Landgoed CC       | Hilversum Plase CC     |
| 1996                  | Hilversum Plase CC       | First National Bank    |
| 2007/06/20            | First National Bank      | Maloyo Trust           |

(Windeed Search Engine 2018)

### Portion 9:

| Purchase date: | Transferred from:   | Transferred to:     |
|----------------|---------------------|---------------------|
| 1972           | -                   | Selapi Landgoed CC  |
| 1992           | Selapi Landgoed CC  | Hilversum Plase CC  |
| 1996           | Hilversum Plase CC  | First National Bank |
| 2007/06/20     | First National Bank | Maloyo Trust        |

(Windeed Search Engine 2018)

### History of land use

The surveyor whom George Moodie sent to survey the Lowveld farms named the property under investigation after Hilversum in the Netherlands (Curror 2002: 212).

In May 1907, there was evidence of “East Coast Fever” infected cattle at Maguba Kraal, situated on the boundary of Hilversum 87 and Sassenheim 86, south of Queens River. Seven heads of cattle had died and two more were possibly infected. Black people lived and grazed their cattle on the farm at the time. The Barberton office of the Department of Agriculture monitored the situation, as well as the spread of other contagious diseases in the region (NARSSA *TAB, TAD: 356 AW115*; NARSSA *SAB, VWR: 64 B645/128/31*).

By December 1909 Moodies Gold Mining and Exploration Co. Ltd. was the owner of Hilversum 87. At the time, the Acting Minister of Mines intended to take steps to throw open to prospecting the farms Emmenes 89, Hilversum 87, Oosterbeek 27, Welgelegen 26, Loenen 34, Josephsdal 35, De Bilt 24 and Schoonoord 25. The company was free to lodge an objection, but this had not been done by June 1911 and the farms were therefore opened up for prospecting under Section 10 of the Precious and Base Metals Act No. 35 of 1908 (NARSSA *SAB, MNW: MM3777/09*).

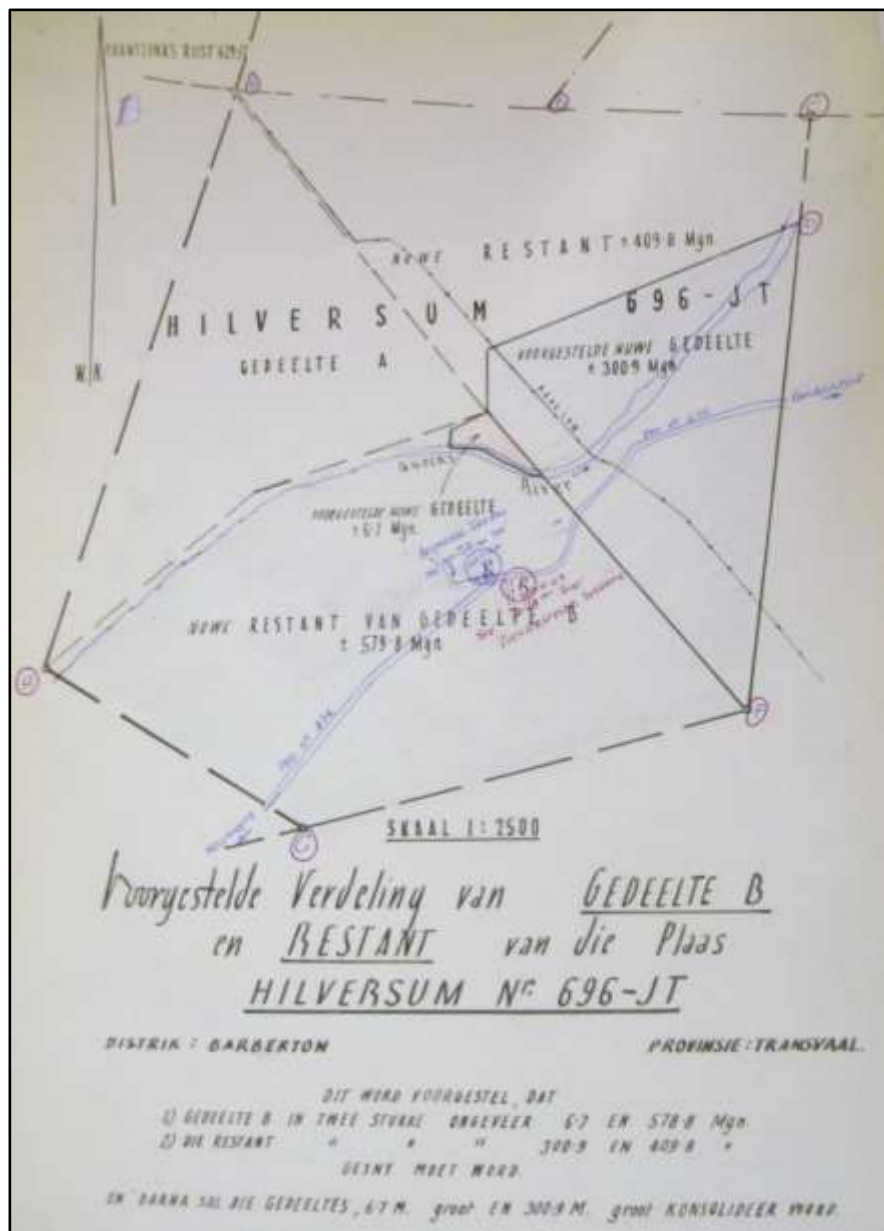
In September 1914 the Acting Secretary for Mines and Industries wrote to the Chairman of Moodies Gold Mining & Exploration Co. Ltd., noting that their application to withdraw the farms Emmenes and Hilversum from prospecting had been granted. The withdrawal notice was published as Government Notice No. 845 of 1914, in the Union Government Gazette of 22 May 1914 (NARSSA *SAB, MNW: 241 MM1659/14*).

In 1963, W.H.N. Kotzer from Nelshoogte Timbers wanted to buy a part of Portion 3 of Hilversum to

Kudzala Antiquity CC| Hilversum 696 JT | Kud/278

build a saw mill, as well as accommodation for workers. This land belonged to Twello Bosboukorporasie at the time. The application was however denied by the Director of Local Government in 1963 (NARSSA SAB, CDB: 3/922 TAD9/48/32 [Part 1]).

In April 1965 an application was made to the Director of Local Government to subdivide Portion B and the Remaining Extent (RE) of Hilversum 696 JT. The present-day Portion 8 and 9 of Hilversum are situated on these portions. It was proposed that a 6.7 morgen portion of the Remainder of Portion B would be cut off from the rest of the property and consolidated with a new 300.9 morgen portion of the RE of the farm. This was due to the fact that a dam on the smaller portion would serve as a water supply for the 300.9 morgen portion. Portion B of Hilversum was owned by Franzinasrust Bosbou (Edms.) Bpk. by 1965 and Eastern Transvaal Consolidated Mines Ltd. had the mining rights on the property. The land was used for residential and agricultural purposes. The application was approved in June 1966. One can therefore say that the area of interest was located on a part of the new RE of Hilversum, as well as the whole of the new consolidated portion (NARSSA SAB, CDB: 3/922 TAD9/48/32 [Part 2]).



**Figure 4.7.** A diagram dated to 1965 showing the proposed subdivision of Portion B and the RE of the farm Hilversum 696 JT. The study area is located on the eastern half of this map (NARSSA SAB, CDB: 3/922 TAD9/48/32 [Part 2]).

## 4.2. Archaeology

### 4.2.1. Stone Age

In Mpumalanga Province the Drakensberg separates the interior plateau also known as the Highveld from the low-lying subtropical Lowveld, which stretches to the Indian Ocean. A number of rivers amalgamate into two main river systems, the Olifants River and the Komati River. This fertile landscape has provided resources for humans and their predecessors for more than 1.7 million years (Esterhuizen & Smith in Delius, 2007).

The initial attraction of abundant foods in the form of animals and plants eventually also led to the discovery of and utilisation of various minerals including ochre, iron and copper. People also obtained foreign resources by means of trade from the coast. From 900 AD this included objects brought across the ocean from foreign shores.

#### The Early Stone Age (ESA)

In South Africa the ESA dates from about 2 million to 250 000 years ago, in other words from the early to middle Pleistocene. The archaeological record shows that as the early ancestors progressed physically, mentally and socially, bone and stone tools were developed. One of the most influential advances was their control of fire and diversifying their diet by exploitation of the natural environment (Esterhuizen & Smith in Delius, 2007).

The earliest stone tools used date to around 2.5 million years ago from the site of Gona in Ethiopia. Stone tools from this site shows that early hominids had to cognitive ability to select raw material and shape it for a specific application. Many bones found in association with stone tools like these have cut marks which lead scientists to believe that early hominids purposefully chipped cobblestones to produce flakes with a sharp edge capable of cutting and butchering animal carcasses. This supplementary diet of higher protein quantities ensured that brain development of hominids took place more rapidly.

Mary Leaky discovered stone tools like these in the Olduvai Gorge in Tanzania during the 1960s. The stone tools are named after this gorge and are known as relics from the Oldowan industry. These tools, only found in Africa, are mainly simple flakes, which were struck from cobbles. This method of manufacture remained for about 1.5 million years. Although there is continuing debate about who made these tools, two hominids may have been responsible. The first of these was an early form of *Homo* and the second was *Paranthropus robustus*, which became extinct about 1 million years ago (Esterhuizen & Smith in Delius, 2007).

Some time later, around 1.7 million years ago, more specialised tools known as Acheulean tools, appeared. These are named after tools from a site in France by the name of Saint Acheul, where they were first discovered in the 1800s. It is argued that these tools had their origin in Africa and then

spread towards Europe and Asia with the movement of hominids out of Africa. These tools had longer and sharper edges and shapes, which suggest that they could be used for a larger range of activities, including the butchering of animals, chopping of wood, digging roots and cracking bone. *Homo ergaster* was probably responsible for the manufacture of Acheulean tools in South Africa. This physical type was arguably physically similar to modern humans, had a larger brain and modern face, body height and proportion very similar to modern humans. *Homo ergaster* was able to flourish in a variety of habitats in part because they were dependent on tools. They adapted to drier, more open grassland settings. Because these early people were often associated with water sources such as rivers and lakes, sites where they left evidence of their occupation are very rare. Most tools of these people have been washed into caves, eroded out of riverbanks and washed downriver. An example in Mpumalanga is Maleoskop on the farm Rietkloof where Early Stone Age (ESA) tools have been found. This is one of only a handful such sites in Mpumalanga.

### **Middle Stone Age (MSA)**

A greater variety of tools with diverse sizes and shapes appeared by 250 000 before present (BP). These replaced the large hand axes and cleavers of the ESA. This technological advancement introduces the Middle Stone Age (MSA). This period is characterised by tools that are smaller in size but different in manufacturing technique (Esterhuizen & Smith in Delius, 2007).

In contrast to the ESA technology of removing flakes from a core, MSA tools were flakes to start with. They were of a predetermined size and shape and were made by preparing a core of suitable material and striking off the flake so that it was flaked according to a shape which the toolmaker desired. Elongated, parallel-sided blades, as well as triangular flakes are common finds in these assemblages. Mounting of stone tools onto wood or bone to produce spears, knives and axes became popular during the MSA. These early humans not only settled close to water sources but also occupied caves and shelters. The MSA represents the transition of more archaic physical type (*Homo*) to anatomically modern humans, *Homo sapiens*.

The MSA has not been extensively studied in Mpumalanga but evidence of this period has been excavated at Bushman Rock Shelter, a well-known site on the farm Klipfonteinhoek in the Ohrigstad district. This cave was excavated twice in the 1960s by Louw and later by Eloff. The MSA layers show that the cave was repeatedly visited over a long period. Lower layers have been dated to over 40 000 BP while the top layers date to approximately 27 000 BP (Esterhuizen & Smith in Delius, 2007; Bergh, 1998).

### **Later Stone Age (LSA)**

Early hunter gatherer societies were responsible for a number of technological innovations and social transformations during this period starting at around 20 000 years BP. Hunting of animals proved more successful with the innovation of the bow and link-shaft arrow. These arrows were made up of a

bone tip which was poisoned and loosely linked to the main shaft of the arrow. Upon impact, the tip and shaft separated leaving the poisoned arrow-tip imbedded in the prey animal. Additional innovations include bored stones used as digging stick weights to uproot tubers and roots; small stone tools, mostly less than 25mm long, used for cutting of meat and scraping of hides; polished bone tools such as needles; twine made from plant fibres and leather; tortoiseshell bowls; ostrich eggshell beads; as well as other ornaments and artwork (Esterhuizen & Smith in Delius, 2007).

At Bushman Rock Shelter the MSA is also represented and starts at around 12 000 BP but only lasted for some 3 000 years. The LSA is of importance in geological terms as it marks the transition from the Pleistocene to the Holocene, which was accompanied by a gradual shift from cooler to warmer temperatures. This change had its greatest influence on the higher-lying areas of South Africa. Both Bushman Rock Shelter and a nearby site, Heuningneskrans, have revealed a greater use in plant foods and fruit during this period (Esterhuizen & Smith in Delius, 2007; Bergh, 1998).

Faunal evidence suggests that LSA hunter-gatherers trapped and hunted zebra, warthog and bovids of various sizes. They also diversified their protein diet by gathering tortoises and land snails (*Achatina*) in large quantities.

Ostrich eggshell beads were found in most of the levels at these two sites. It appears that there is a gap of approximately 4 000 years in the Mpumalanga LSA record between 9 000 BP and 5 000 BP. This may be a result of generally little Stone Age research being conducted in the province. It is, however, also a period known for rapid warming and major climate fluctuation, which may have led people to seek out protected environments in this area. The Mpumalanga Stone Age sequence is visible again during the mid-Holocene at the farm Honingklip near Badplaas in the Carolina district (Esterhuizen & Smith in Delius, 2007; Bergh, 1998).

At this location, two LSA sites were located on opposite sides of the Nhlazatshe River, about one kilometre west of its confluence with the Teespruit. These two sites are located on the foothills of the Drakensberg, where the climate is warmer than the Highveld but also cooler than the Lowveld (Esterhuizen & Smith in Delius, 2007; Bergh, 1998).

Nearby the sites, dated to between 4 870 BP and 200 BP are four panels, which contain rock art. Colouring material is present in all the excavated layers of the site, which makes it difficult to determine whether the rock art was painted during the mid- or later Holocene. Stone walls at both sites date from the last 250 years of hunter gatherer occupation and they may have served as protection from predators and intruders (Esterhuizen & Smith in Delius, 2007; Bergh, 1998).

#### 4.2.2. Early Iron Age

The period referred to as the Early Iron Age (AD 200-1500 approx.) started when presumably Karanga (north-east African) herder groups moved into the north eastern parts of South Africa. It is believed that these people may have been responsible for making of the famous Lydenburg Heads, ceramic masks dating to approximately 600AD.

Ludwig von Bezing was a boy of more or less 10 years of age when he first saw pieces of the now famous Lydenburg heads in 1957 while playing in the veld on his father's farm near Lydenburg. Five years later von Bezing developed an interest in archaeology and went back to where he first saw the shards. Between 1962 and 1966 he frequently visited the Sterkspruit valley to collect pieces of the seven clay heads. Von Bezing joined the archaeological club of the University of Cape Town when he studied medicine at this institution.

He took his finds to the university at the insistence of the club. He had not only found the heads, but potsherds, iron beads, copper beads, ostrich eggshell beads, pieces of bones and millstones. Archaeologists of the University of Cape Town and WITS Prof. Ray Innskeep and Dr Mike Evers excavated the site where von Bezing found the remains. This site and in particular its unique finds (heads, clay masks) instantly became internationally famous and was henceforth known as the Lydenburg Heads site.

Two of the clay masks are large enough to probably fit over the head of a child, the other five are approximately half that size. The masks have both human and animal features, a characteristic that may explain that they had symbolic use during initiation- and other religious ceremonies. Carbon dating proved that the heads date to approximately 600 AD and was made by Early Iron Age people. These people were Bantu herders and agriculturists and probably populated Southern Africa from areas north-east of the Limpopo river. Similar ceramics were later found in the Gustav Klingbiel Nature Reserve and researchers believe that they are related to the ceramic wares (pottery) of the Lydenburg Heads site in form, function and decorative motive. This sequence of pottery is formally known as the Klingbiel type pottery. No clay masks were found in a context similar to this pottery sequence.

Two larger heads and five smaller ones make up the Lydenburg find. The Lydenburg heads are made of the same clay used in making household pottery. It is also made with the same technique used in the manufacture of household pottery. The smaller heads display the modelling of a curved forehead and the back neck as it curves into the skull. Around the neck of each of the heads, two or three rings are engraved horizontally and are filled in with hatching marks to form a pattern. A ridge of clay over the forehead and above the ears indicates the hairline. On the two larger heads a few rows of small clay balls indicate hair decorations. The mouth consists of lips – the smaller heads also



have teeth. The seventh head has the snout of an animal and is the only head that represents an animal.

Some archaeological research was done during the 1970's at sites belonging to the Early Iron Age (EIA), location Plaston, a settlement close to White River (Evers, 1977). This site is located on a spur between the White River and a small tributary. It is situated on holding 119 at Plaston.

The site was discovered during house building operations when a collection of pottery sherds was excavated. The finds consisted of pottery shards both on the surface and excavated.

Some of the pottery vessels were decorated with a red ochre wash. Two major decoration motifs occurred on the pots:

- Punctuation, using a single stylus; and
- Broad line incision, the more common motif.

A number of EIA pottery collections from Mpumalanga and Limpopo may be compared to the Plaston sample. They include Silver Leaves, Eiland, Matola, Klingbiel and the Lydenburg Heads site. The Plaston sample is distinguished from samples of these sites in terms of rim morphology, the majority of rims from Plaston are rounded and very few bevelled. Rims from the other sites show more bevelled rims (Evers, 1977:176).

Early Iron Age pottery was also excavated by archaeologist, Prof. Tom Huffman during 1997 on location where the Riverside Government complex is currently situated (Huffman, 1998). This site is situated a few km north of Nelspruit next to the confluence of the Nelspruit and Crocodile River. It was discovered during the course of an environmental impact assessment for the new Mpumalanga Government complex offices. A bulldozer cutting exposed storage pits, cattle byres, a burial and midden on the crest of a gentle slope. Salvage excavations conducted during December 1997 and March 1998 recovered the burial and contents of several pits.

One of the pits contained, among other items, pottery dating to the eleventh century (AD 1070 ± 40 BP). This relates the pottery to the Mzonjani and Broederstroom phases. The early assemblage belongs to the Kwale branch of the Urewe tradition.

During the early 1970s Dr Mike Evers of the University of the Witwatersrand conducted fieldwork and excavations in the Eastern Transvaal. Two areas were studied: the first area was the Letaba area south of the Groot Letaba River, west of the Lebombo Mountains, east of the great escarpment and north of the Olifants River. The second area was the Eastern Transvaal escarpment area between Lydenburg and Machadodorp.

These two areas are referred to as the Lowveld and escarpment respectively. The earliest work on Iron Age archaeology was conducted by Trevor and Hall in 1912. This revealed prehistoric copper-

gold- and iron mines. Schwelinus (1937) reported smelting furnaces, a salt factory and terraces near Phalaborwa. In the same year D.S. van der Merwe located ruins, graves, furnaces, terraces and soapstone objects in the Letaba area.

Mason (1964, 1965, 1967, 1968) started the first scientific excavation in the Lowveld, followed by N.J. van der Merwe and Scully. M. Klapwijk (1973, 1974) also excavated an EIA site at Silverleaves and Evers and van den Berg (1974) excavated at Harmony and Eiland, both EIA sites.

Research by the National Cultural History Museum resulted in the excavation of an EIA site in Sekhukuneland, known as Motolong (Van Schalkwyk, 2007). The site is characterized by four large cattle kraals containing ceramics, which may be attributed to the Mzonjani and Doornkop occupational phases.

### **4.2.3. Late Iron Age**

The later phases of the Iron Age (AD 1600-1800's) are represented by various tribes including Ndebele, Swazi, BaKoni, and Pedi, marked by extensive stonewalled settlements found throughout the escarpment and particularly around Machadodorp, Lydenburg, Badfontein, Sekhukuneland, Roossenekal and Steelpoort. The BaKoni were the architects of a unique archaeological stone building complex who by the 19<sup>th</sup> century spoke seKoni which was similar to Sepedi. The core elements of this tradition are stone-walled enclosures, roads and terraces. These settlement complexes may be divided into three basic features: homesteads, terraces and cattle tracks. Researchers such as Mike Evers (1975) and David Collett (1982) identified three basic settlement layouts in this area. Basically these sites can be divided into simple and complex ruins. Simple ruins are normally small in relation to more complex sites and have smaller central cattle byres and fewer huts. Complex ruins consist of a central cattle byre, which has two opposing entrances and a number of semi-circular enclosures surrounding it. The perimeter wall of these sites is sometimes poorly visible. Huts are built between the central enclosure and the perimeter wall. These are all connected by track-ways referred to as cattle tracks. These tracks are made by building stone walls, which forms a walkway for cattle to the centrally located cattle byres.

## 5. Site descriptions, locations and impact significance assessment

A single site numbered HB 1 was recorded during the survey. This consists of the ruined remains of a farmstead. It is not regarded as being of heritage significance in terms of the built heritage environment (section 34 of the Act, 25 of 1999) as it is not older than 60 years as evidenced by historic maps (see section 3.1.2.).

In terms of burial grounds and graves (section 36 of the Act) no sites were recorded. It is however possible that unmarked graves may have been missed due to the dense nature of the vegetation on the property. A watching brief is recommended during bush clearing activities and should be included in the EMP.

In terms of the archaeological component of the Act (section 35) no sites were recorded.

A total of twenty (20) survey orientation locations were documented (SO 1-20) which includes a GPS location and photographs of the landscape at that particular location.

The survey orientation sites are tabled in Appendix B and their photos in Appendix D. A map of their location is also provided in Appendix C.

Tables indicate the **site significance rating scales and status** in terms of possible impacts of the proposed actions on any located or identified heritage sites (**Table 5.5 & 5.6**).

**Table 5.1.** Summary of located sites and their heritage significance

| Type of site                  | Identified sites | Significance |
|-------------------------------|------------------|--------------|
| Graves and graveyards         | None             | N/A          |
| Late Iron Age                 | None             | N/A          |
| Early Iron Age                | None             | N/A          |
| Buildings or structures       | HB 1             | GP C         |
| Historical features and ruins | None             | N/A          |
| Stone Age sites               | None             | N/A          |

**Table 5.2.** Significance rating guidelines for sites

| <b>Field Rating</b>          | <b>Grade</b> | <b>Significance</b>       | <b>Recommended Mitigation</b>                           |
|------------------------------|--------------|---------------------------|---|
| National Significance (NS)   | Grade 1      | High Significance         | Conservation, nomination as national site               |
| Provincial Significance (PS) | Grade 2      | High Significance         | Conservation; Provincial site nomination                |
| Local significance (LS 3A)   | Grade 3A     | High Significance         | Conservation, No mitigation advised                     |
| Local Significance (LS 3B)   | Grade 3B     | High Significance         | Mitigation but at least part of site should be retained |
| Generally Protected A (GPA)  | GPA          | High/ Medium Significance | Mitigation before destruction                           |
| Generally Protected B (GPB)  | GPB          | Medium Significance       | Recording before destruction                            |
| Generally Protected C (GPC)  | GPC          | Low Significance          | Destruction   |

## 5.1. Description of located sites

### 5.1.1. Site HB 1.

**Location:** See Appendix B and D (fig. 41, 42).

**Description:** The ruined remains of a farmstead. Historical maps (section 3.1.2. in this report) show that the building was erected sometime between 1968 and 1984.

**Impact of the proposed development/ activity:**

The site is located outside of the proposed development areas therefore low impact envisaged.

**Recommendation:**

No recommendations.



Photo taken east.

**Survey orientations:**

**5.1.2. Site SO 1.**

**Location:** See Appendix B and D (fig. 1, 2).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken south-west

**5.1.3. Site SO 2.**

**Location:** See Appendix B and D (fig. 3, 4).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken north-west

**5.1.4. Site SO 3.**

**Location:** See Appendix B and D (fig. 5, 6).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken east

**5.1.5. Site SO 4.**

**Location:** See Appendix B and D (fig. 7, 8).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken east

**5.1.6. Site SO 5.**

**Location:** See Appendix B and D (fig. 9, 10).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken west

**5.1.7. Site SO 6.**

**Location:** See Appendix B and D (fig. 11, 12).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken west



**5.1.8. Site SO 7.**

**Location:** See Appendix B and D (fig. 13, 14).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken south

**5.1.9. Site SO 8.**

**Location:** See Appendix B and D (fig. 15, 16).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken south-west

**5.1.10. Site SO 9.**

**Location:** See Appendix B and D (fig. 17, 18).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken north-east

**5.1.11. Site SO 10.**

**Location:** See Appendix B and D (fig. 19, 20).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken north-west

**5.1.12. Site SO 11.**

**Location:** See Appendix B and D (fig. 21, 22).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken south-west

**5.1.13. Site SO 12.**

**Location:** See Appendix B and D (fig. 23, 24).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken east

**5.1.14. Site SO 13.**

**Location:** See Appendix B and D (fig. 25, 26).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken west

**5.1.15. Site SO 14.**

**Location:** See Appendix B and D (fig. 27, 28).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken north

**5.1.16. Site SO 15.**

**Location:** See Appendix B and D (fig. 29, 30).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken west

**5.1.17. Site SO 16.**

**Location:** See Appendix B and D (fig. 31, 32).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken south



**5.1.18. Site SO 17.**

**Location:** See Appendix B and D (fig. 33, 34).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken north-west

**5.1.19. Site SO 18.**

**Location:** See Appendix B and D (fig. 35, 36).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken west

**5.1.20. Site SO 19.**

**Location:** See Appendix B and D (fig. 37, 38).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken north-west

**5.1.21. Site SO 20.**

**Location:** See Appendix B and D (fig. 39, 40).

**Description:** Survey orientation location.

**Impact of the proposed development/ activity:** N/A

**Recommendation:** N/A



Photo taken east

**TABLE 5.3. General description of located sites and field rating.**

| <b>Site No.</b> | <b>Description</b>          | <b>Type of significance</b> | <b>Degree of significance</b>           | <b>NHRA heritage resource &amp; rating</b> |
|-----------------|-----------------------------|-----------------------------|---|--|
| HB 1            | House/ farmstead            | Built environment           | Archaeological: N/A<br>Historic: Medium | Structures (Sect. 34). Low. <b>GP C.</b>   |
| SO 1            | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 2            | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 3            | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 4            | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 5            | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 6            | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 7            | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 8            | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 9            | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 10           | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 11           | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 12           | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 13           | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 14           | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 15           | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 16           | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |
| SO 17           | Survey orientation location | N/A                         | Archaeological: N/A<br>Historic: N/A    | N/A  |



|       |                             |     |                                      |     |
|-------|-----------------------------|-----|--------------------------------------|-----|
| SO 18 | Survey orientation location | N/A | Archaeological: N/A<br>Historic: N/A | N/A |
| SO 19 | Survey orientation location | N/A | Archaeological: N/A<br>Historic: N/A | N/A |
| SO 20 | Survey orientation location | N/A | Archaeological: N/A<br>Historic: N/A | N/A |

**TABLE 5.4. Site condition assessment and management recommendations.**

| Site no. | Type of Heritage resource | Integrity of cultural material | Preservation condition of site | Relative location | Quality of archaeological/historic material  | Quantity of site features | Recommended conservation management   |
|----------|---------------------------|--------------------------------|--------------------------------|-------------------|--|---------------------------|---|
| HB 1     | Built environment         | N/A                            | Poor                           | Hilversum 696 JT  | Archaeology: N/A<br>Historically: Poor/ None | 1                         | Not located in project area. Not older than 60 years, no mitigation needed before destruction |
| SO 1     | None                      | N/A                            | Good                           | Hilversum 696 JT  | Archaeology: N/A<br>Historically: N/A        | 1                         | None  |
| SO 2     | None                      | N/A                            | Good                           | Hilversum 696 JT  | Archaeology: N/A<br>Historically: N/A        | 1                         | None  |
| SO 3     | None                      | N/A                            | Good                           | Hilversum 696 JT  | Archaeology: N/A<br>Historically: N/A        | 1                         | None  |
| SO 4     | None                      | N/A                            | Good                           | Hilversum 696 JT  | Archaeology: N/A<br>Historically: N/A        | 1                         | None  |
| SO 5     | None                      | N/A                            | Good                           | Hilversum 696 JT  | Archaeology: N/A<br>Historically: N/A        | 1                         | None  |
| SO 6     | None                      | N/A                            | Good                           | Hilversum 696 JT  | Archaeology: N/A<br>Historically: N/A        | 1                         | None  |
| SO 7     | None                      | N/A                            | Good                           | Hilversum 696 JT  | Archaeology: N/A<br>Historically: N/A        | 1                         | None  |
| SO 8     | None                      | N/A                            | Good                           | Hilversum 696 JT  | Archaeology: N/A<br>Historically: N/A        | 1                         | None  |

|       |      |     |      |                  |                                       |   |      |
|-------|------|-----|------|------------------|---------------------------------------|---|------|
| SO 9  | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 10 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 11 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 12 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 13 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 14 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 15 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 16 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 17 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 18 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 19 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |
| SO 20 | None | N/A | Good | Hilversum 696 JT | Archaeology: N/A<br>Historically: N/A | 1 | None |

**TABLE 5.5. Significance Rating Scales of Impact**

| Site No. | Nature of impact   | Type of site       | Extent | Duration   | Intensity | Probability | Score total |
|----------|--------------------|--------------------|--------|------------|-----------|-------------|-------------|
| HB 1     | Agric. Development | Ruins              | Site   | Short term | High      | Possible    | 5           |
| SO 1     | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 2     | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 3     | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 4     | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 5     | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 6     | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 7     | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 8     | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 9     | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 10    | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 11    | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 12    | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 13    | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |
| SO 14    | Agric. Development | Survey orientation | Site   | Short term | Low       | Possible    | 3           |

|       |                    |                    |      |            |     |          |   |
|-------|--------------------|--------------------|------|------------|-----|----------|---|
| SO 15 | Agric. Development | Survey orientation | Site | Short term | Low | Possible | 3 |
| SO 16 | Agric. Development | Survey orientation | Site | Short term | Low | Possible | 3 |
| SO 17 | Agric. Development | Survey orientation | Site | Short term | Low | Possible | 3 |
| SO 18 | Agric. Development | Survey orientation | Site | Short term | Low | Possible | 3 |
| SO 19 | Agric. Development | Survey orientation | Site | Short term | Low | Possible | 3 |
| SO 20 | Agric. Development | Survey orientation | Site | Short term | Low | Possible | 3 |
| SO 21 | Agric. Development | Survey orientation | Site | Short term | Low | Possible | 3 |

**\*Notes:** Short term ≥ 5 years, Medium term 5-15 years, Long term 15-30 years, Permanent 30+ years

Intensity: Very High (4), High (3), Moderate (2), Low (1)

Probability: Improbable (1), Possible (2), Highly probable (3), Definite (4)

**TABLE 5.6. Site current status and future impact scores**

| Site No. | Current Status | Low impact (4-6 points) | Medium impact (7-9 points) | High impact (10-12 points) | Very high impact (13-16 points) | Score Total |
|----------|----------------|-------------------------|----------------------------|----------------------------|---------------------------------|-------------|
| HB 1     | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 1     | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 2     | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 3     | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 4     | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 5     | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 6     | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 7     | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 8     | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 9     | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 10    | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 11    | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 12    | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 13    | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 14    | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 15    | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 16    | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 17    | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |
| SO 18    | Neutral        | Low (4)                 | -                          | -                          | -                               | 4           |

|       |         |         |   |   |   |   |
|-------|---------|---------|---|---|---|---|
| SO 19 | Neutral | Low (4) | - | - | - | 4 |
| SO 20 | Neutral | Low (4) | - | - | - | 4 |

## **5.2. Cumulative impacts on the heritage landscape**

Cumulative impacts can occur when a range of impacts which result from several concurrent processes have impact on heritage resources. The importance of addressing cumulative impacts is that the total impact of several factors together is often greater than one single process or activity that may impact on heritage resources. No significant heritage resources were identified and therefore no cumulative impacts are expected. Also see section 6.1. Recommended management measures.



## 6. Summary of findings and recommendations

A single site numbered HB 1 was recorded during the survey. This consists of the ruined remains of a farmstead. It is not regarded as being of heritage significance in terms of the built heritage environment (section 34 of the Act, 25 of 1999) as it is not older than 60 years as evidenced by historic maps (see section 3.1.2.).

In terms of burial grounds and graves (section 36 of the Act) no sites were recorded. It is however possible that unmarked graves may have been missed due to the dense nature of the vegetation on the property. A watching brief is recommended during bush clearing activities and should be included in the EMP.

In terms of the archaeological component of the Act (section 35) no sites were recorded.

A total of twenty (20) survey orientation locations were documented (SO 1-20) which includes a GPS location and photographs of the landscape at that particular location.

It is not within the expertise of this report or the surveyor to comment on possible paleontological remains which may be located in the study area.

The bulk of archaeological remains are normally located beneath the soil surface. It is therefore possible that some significant cultural material or remains were not located during this survey and will only be revealed when the soil is disturbed. Should excavation or large scale earth moving activities reveal any human skeletal remains, broken pieces of ceramic pottery, large quantities of sub-surface charcoal or any material that can be associated with previous occupation, a qualified archaeologist should be notified immediately. This will also temporarily halt such activities until an archaeologist has assessed the situation. It should be noted that if such a situation occurs it may have further financial implications.

### 6.1. Recommended management measures

Management objectives include not to impact on sites of heritage significance. Monitoring programmes should be followed in case a chance find of a heritage object or human remains occur.

- The contractors and workers should be notified that archaeological or burial sites might be exposed during the construction work.
- Should any heritage artefacts be exposed during excavation, work on the area where the artefacts were discovered, shall cease immediately and the Environmental Control Officer shall be notified as soon as possible;

- All discoveries shall be reported immediately to a heritage specialist, so that an investigation and evaluation of the finds can be made. Acting upon advice from these specialists, the Environmental Control Officer will advise the necessary actions to be taken;
- Under no circumstances shall any artefacts be removed, destroyed or interfered with by anyone on the site; and
- Contractors and workers shall be advised of the penalties associated with the unlawful removal of cultural, historical, archaeological or paleontological artefacts, as set out in the National Heritage Resources Act (Act No. 25 of 1999).

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# Appendix A

## Terminology

**“Alter”** means any action affecting the structure, appearance or physical properties of a place or object, whether by way of structural or other works, by painting, plastering or other decoration or any other means.

**“Archaeological”** means –

- Material remains resulting from human activity which are in a state of disuse and are in or on land and which are older than 100 years, including artifacts, human and hominid remains and artificial features or 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 which is older than 100 years, including any area within 10m 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 maritime 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 artifacts found or associated therewith, which is older than 60 years or which SAHRA considers to be worthy of conservation; and
- Features, structures and artefacts associated with military history which are older than 75 years and the sites on which they are found;

**“Conservation”**, in relation to heritage resources, includes protection, maintenance, preservation and sustainable use of places or objects so as to safeguard their cultural significance;

**“Cultural significance”** means aesthetic, architectural, historical, scientific, social, spiritual, linguistic or technological value or significance;

**“Development”** means any physical intervention, excavation, or action, other than those caused by natural forces, which may in the opinion of a heritage authority in any way result in a change to the nature, appearance or physical nature of a place, or influence its stability and future well-being, including –

- construction, alteration, demolition, removal or change of use of a place or a structure at a place;
- carrying out any works on or over or under a place;
- subdivision or consolidation of land comprising, a place, including the structures or airspace of a place;

- constructing or putting up for display signs or hoardings;
- any change to the natural or existing condition or topography of land; and
- any removal or destruction of trees, or removal of vegetation or topsoil;

**“Expropriate”** means the process as determined by the terms of and according to procedures described in the Expropriation Act, 1975 (Act No. 63 of 1975);

**“Foreign cultural property”**, in relation to a reciprocating state, means any object that is specifically designated by that state as being of importance for archaeology, history, literature, art or science;

**“Grave”** means a place of internment and includes the contents, headstone or other marker of such a place, and any other structure on or associated with such place;

**“Heritage resource”** means any place or object of cultural significance;

**“Heritage register”** means a list of heritage resources in a province;

**“Heritage resources authority”** means the South African Heritage Resources Agency, established in terms of section 11, or, insofar as this Act (25 of 1999) is applicable in or in respect of a province, a provincial heritage resources authority (PHRA);

**“Heritage site”** means a place declared to be a national heritage site by SAHRA or a place declared to be a provincial heritage site by a provincial heritage resources authority;

**“Improvement”** in relation to heritage resources, includes the repair, restoration and rehabilitation of a place protected in terms of this Act (25 of 1999);

**“Land”** includes land covered by water and the air space above the land;

**“Living heritage”** means the intangible aspects of inherited culture, and may include –

- cultural tradition;
- oral history;
- performance;
- ritual;
- popular memory;
- skills and techniques;
- indigenous knowledge systems; and
- the holistic approach to nature, society and social relationships;



**“Management”** in relation to heritage resources, includes the conservation, presentation and improvement of a place protected in terms of the Act;

**“Object”** means any moveable property of cultural significance which may be protected in terms of any provisions of the Act, including –

- any archaeological artifact;
- palaeontological and rare geological specimens;
- meteorites;
- other objects referred to in section 3 of the Act;

**“Owner”** includes the owner’s authorized agent and any person with a real interest in the property and –

- in the case of a place owned by the State or State-aided institutions, the Minister or any other person or body of persons responsible for the care, management or control of that place;
- in the case of tribal trust land, the recognized traditional authority;

**“Place”** includes –

- 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;

**“Site”** means any area of land, including land covered by water, and including any structures or objects thereon;

**“Structure”** 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.

## Appendix B

## List of sites

A single site and twenty survey orientation locations were recorded. The survey orientation sites were named SO 1-20 and the located site HB 1. The prefix HB represents the farm "Hilversum" and "Barberton".

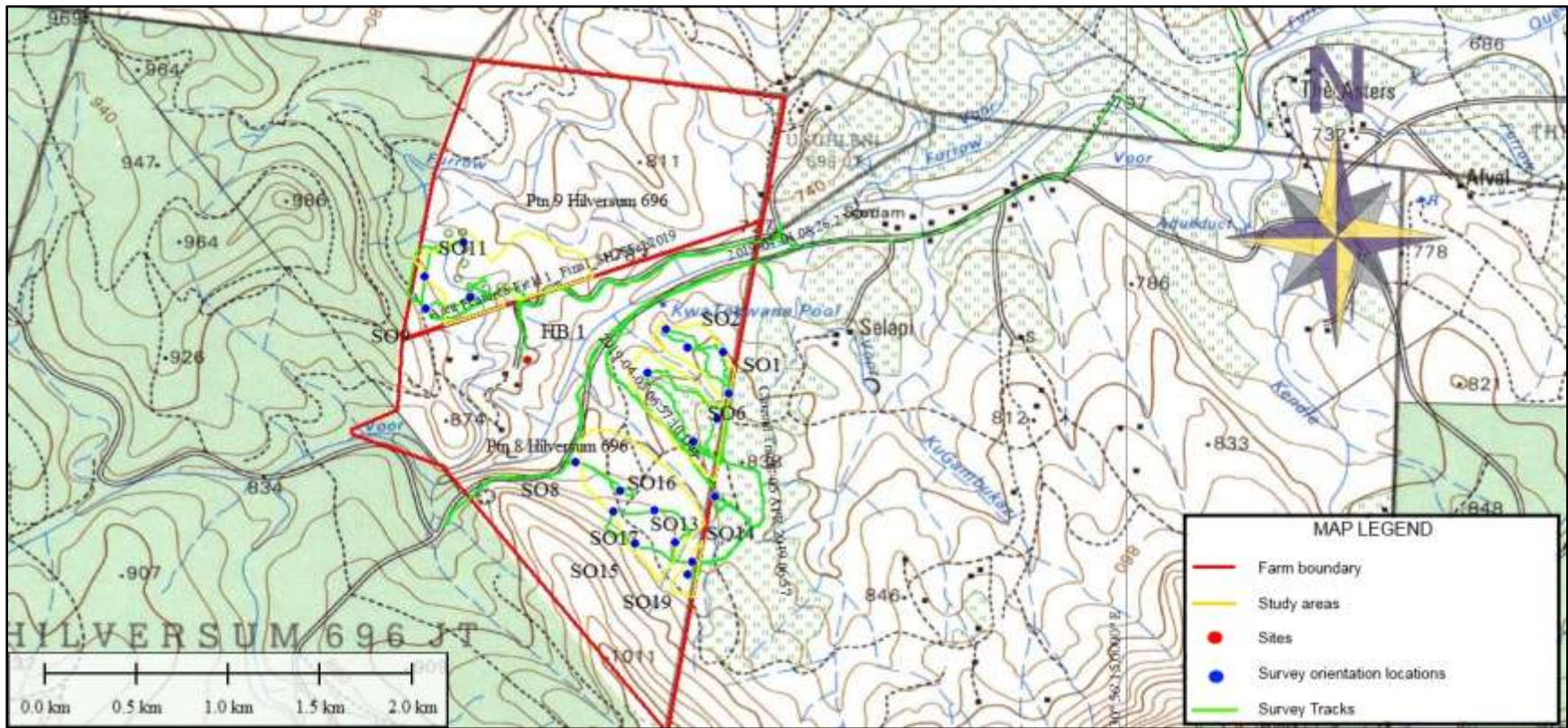
**Table A. Survey Orientation Locations.**

| Site Name | Date of compilation | GPS Coordinates |                | Photo figure No. |
|-----------|---------------------|-----------------|----------------|------------------|
| SO 1      | 04/04/2019          | S25°47'45.34"   | E030°55'05.07" | 1, 2             |
| SO 2      | 04/04/2019          | S25°47'37.33"   | E030°54'57.72" | 3, 4             |
| SO 3      | 04/04/2019          | S25°47'34.12"   | E030°54'54.04" | 5, 6             |
| SO 4      | 04/04/2019          | S25°47'38.16"   | E030°55'04.08" | 7, 8             |
| SO 5      | 04/04/2019          | S25°47'49.91"   | E030°55'03.06" | 9, 10            |
| SO 6      | 04/04/2019          | S25°47'53.97"   | E030°54'58.75" | 11, 12           |
| SO 7      | 04/04/2019          | S25°47'41.70"   | E030°54'50.78" | 13, 14           |
| SO 8      | 04/04/2019          | S25°47'57.43"   | E030°54'38.09" | 15, 16           |
| SO 9      | 04/04/2019          | S25°47'30.51"   | E030°54'11.75" | 17, 18           |
| SO 10     | 04/04/2019          | S25°47'28.51"   | E030°54'19.56" | 19, 20           |
| SO 11     | 04/04/2019          | S25°47'24.89"   | E030°54'11.49" | 21, 22           |
| SO 12     | 04/04/2019          | S25°47'18.77"   | E030°54'18.28" | 23, 24           |
| SO 13     | 04/04/2019          | S25°48'03.47"   | E030°55'02.64" | 25, 26           |
| SO 14     | 04/04/2019          | S25°48'15.11"   | E030°54'58.59" | 27, 28           |
| SO 15     | 05/04/2019          | S25°48'11.86"   | E030°54'48.49" | 29, 30           |
| SO 16     | 05/04/2019          | S25°48'06.21"   | E030°54'44.71" | 31, 32           |
| SO 17     | 05/04/2019          | S25°48'05.87"   | E030°54'51.95" | 33, 34           |
| SO 18     | 05/04/2019          | S25°48'11.61"   | E030°54'55.66" | 35, 36           |
| SO 19     | 05/04/2019          | S25°48'17.27"   | E030°54'57.82" | 37, 38           |
| SO 20     | 05/04/2019          | S25°48'02.47"   | E030°54'45.92" | 39, 40           |

**Table B. Recorded sites.**

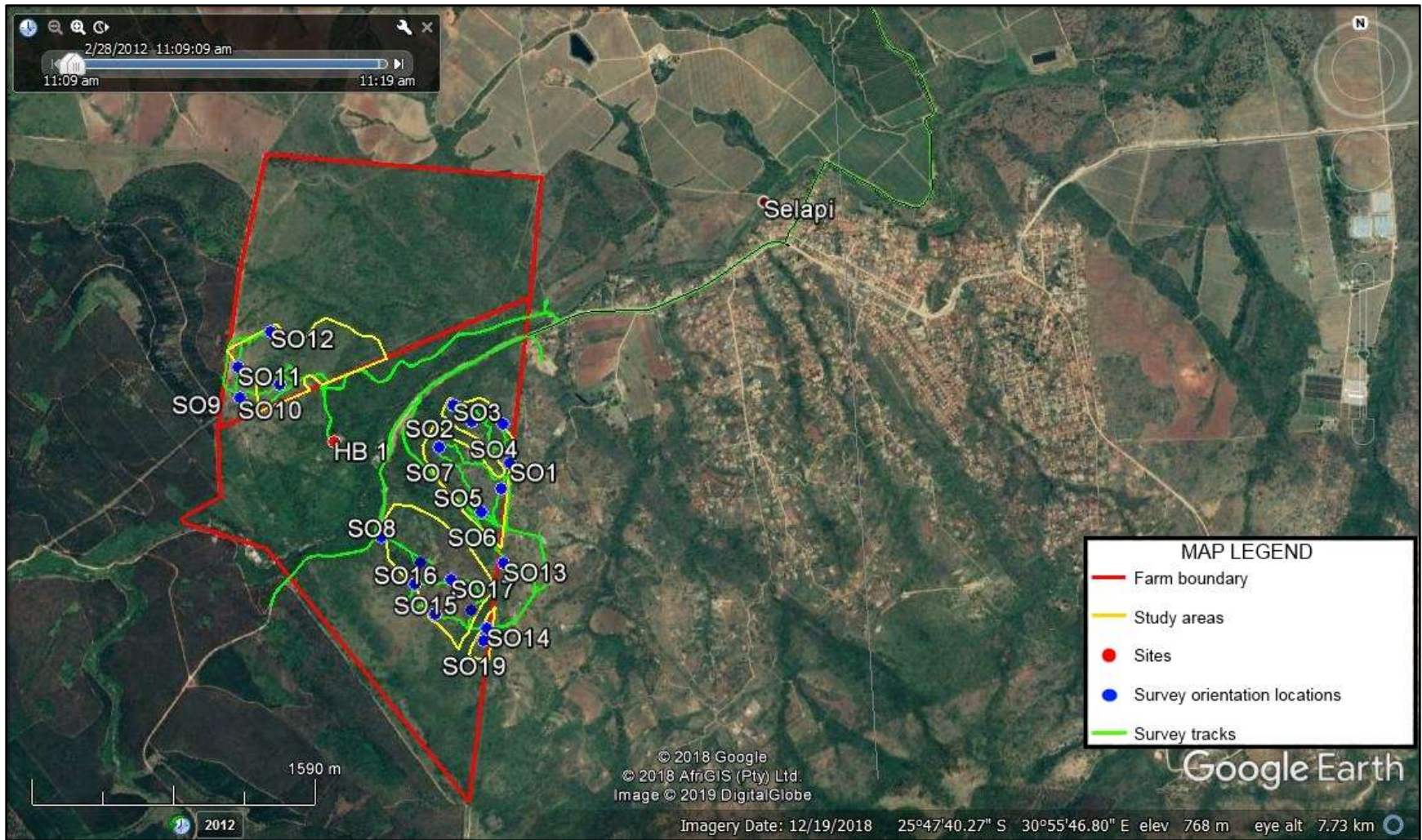
| <b>Site Name</b> | <b>Date of compilation</b> | <b>GPS Coordinates</b> |                | <b>Photo figure No.</b> |
|------------------|----------------------------|------------------------|----------------|-------------------------|
| HB 1             | 04/04/2019                 | S25°47'39.53"          | E030°54'29.63" | 41, 42                  |

## Appendix C



1:50 000 Topographical Map 2530 DD (1984).





Aerial view: Google Earth 2019.

## Appendix D



## Survey Orientation Photos



**Fig. 1.** Site SO 1. Photo taken in a eastern direction.



**Fig. 2.** Site SO 1. Photo taken in a north-western direction.



**Fig. 3.** Site SO 2. Photo taken in a northern-eastern direction.



**Fig. 4.** Site SO 2. Photo taken south-east.





**Fig. 5.** Site SO 3. Photo taken in a western direction.



**Fig. 6.** Site SO 3. Photo taken in a southern direction.





**Fig. 7.** Site SO 4. Photo taken in a southern direction. Dense guava invasion.



**Fig. 8.** Site SO 4. Photo taken in a western direction. Dense guava invasion.



**Fig. 9.** Site SO 5. Photo taken in a northern direction.



**Fig. 10.** Site SO 5. Photo taken in a southern direction.





**Fig. 11.** Site SO 6. Photo taken in a north-western direction.



**Fig. 12.** Site SO 6. Photo taken in a south-eastern direction.



**Fig. 13.** Site SO 7. Photo taken in a northern direction.



**Fig. 14.** Site SO 7. Photo taken in a eastern direction. Note the dense thicket.





**Fig. 15.** Site SO 8. Photo taken in a north eastern direction.



**Fig. 16.** Site SO 8. Photo taken in a south-western direction.





**Fig. 17.** Site SO 9. Photo taken in a northern direction.



**Fig. 18.** Site SO 9. Photo taken in a north-eastern direction.



**Fig. 19.** Site SO 10. Photo taken in a northern direction. Dense grass cover limits surface visibility.



**Fig. 20.** Site SO 10. Photo taken in a north-western direction.





**Fig. 21.** Site SO 11. Photo taken in an eastern direction. Dense grass cover limits surface visibility.



**Fig. 22.** Site SO 11. Photo taken in a north-eastern direction.



**Fig. 23.** Site SO 12. Photo taken in a southern direction. Dense undergrowth visible.



**Fig. 24.** Site SO 12. Photo taken in a northern direction. Dense undergrowth visible.

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**Fig. 25.** Site SO 13. Photo taken in a southern direction.



**Fig. 26.** Site SO 13. Photo taken in a south-western direction.



**Fig. 27.** Site SO 14. Photo taken in a southern direction.



**Fig. 28.** Site SO 14. Photo taken in a western direction.





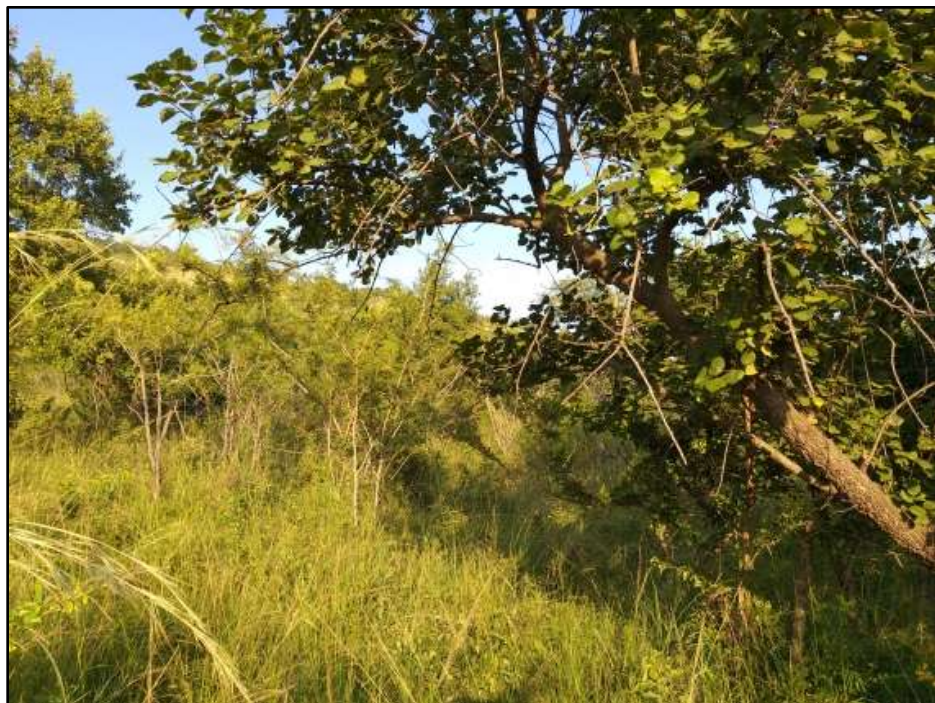
**Fig. 29.** Site SO 15. Photo taken in a northern direction.



**Fig. 30.** Site SO 15. Photo taken in a southern direction.



**Fig. 31.** Site SO 16. Photo taken in a northern direction.



**Fig. 32.** Site SO 16. Photo taken in a western direction.





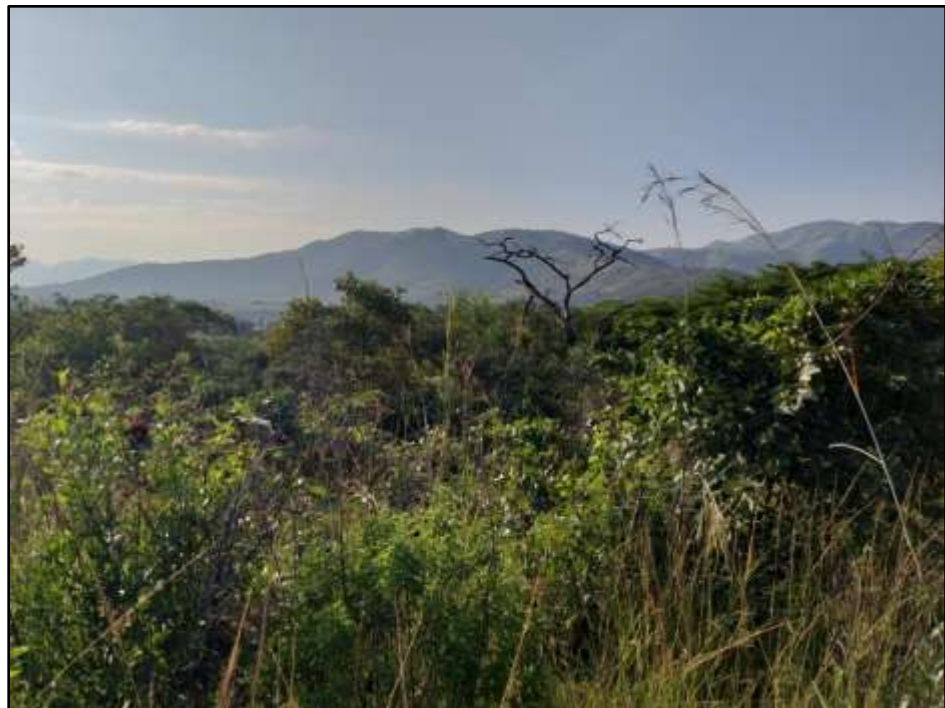
**Fig. 33.** Site SO 17. Photo taken in an eastern direction.



**Fig. 34.** Site SO 17. Photo taken in a north-eastern direction.



**Fig. 35.** Site SO 18. Photo taken in a northern direction.



**Fig. 36.** Site SO 18. Photo taken in an eastern direction. Note the dense undergrowth.



**Fig. 37.** Site SO 19. Photo taken in a northern direction.



**Fig. 38.** Site SO 19. Photo taken in an eastern direction.





**Fig. 39.** Site SO 20. Photo taken in a north-western direction.



**Fig. 40.** Site SO 20. Photo taken in a western direction.

## Site Photos



**Figure 41.** Site HB 1. Photo taken in a eastern direction. The ruined remains of an farmstead.



**Figure 42.** Site HB 1. The ruins of the farmstead. Photo taken in a north-eastern direction.