



Archaetnos Culture & Cultural  
Resource Consultants  
BK 98 09854/23

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**AN UPDATED REPORT ON A CULTURAL HERITAGE IMPACT ASSESSMENT  
FOR THE PROPOSED DEVELOPMENT ON PORTION 385 OF THE FARM  
WATERKLOOF 305 JQ, RUSTENBURG, NORTH WEST PROVINCE**

For:

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**REPORT NO.: AE012215V**

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***8 June 2022***

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## **SUBMISSION OF REPORT**

**Please note that the South African Heritage Resources Agency (SAHRA) or one of its subsidiary bodies needs to comment on this report.**

**It is the client's responsibility to do the submission via the SAHRIS System on the SAHRA website.**

**Clients are advised not to proceed with any action before receiving the necessary comments from SAHRA.**

## **DISCLAIMER**

**Although all possible care is taken to identify all sites of cultural importance during the survey of study areas, the nature of archaeological and historical sites are as such that it always is possible that hidden or subterranean sites could be overlooked during the study. Archaetnos and its personnel will not be held liable for such oversights or for costs incurred as a result thereof.**

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**Any changes to the scope of a project will require an additional appointment.**

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## SUMMARY

Archaetnos cc was requested by Hydro Science to conduct a cultural heritage impact assessment (HIA) for a proposed mixed development on portion 385 of the farm Waterkloof 305 JQ. This is in Rustenburg in the North West province.

A section of the site was previously surveyed (see Van Vollenhoven 2016a). However the development is now planned on a larger footprint and thus report needs to be updated. This report is the result thereof.

The methodology for the study includes a survey of literature and a field survey. The latter was conducted according to generally accepted HIA practices and was aimed at locating all possible objects, sites and features of cultural significance in the area of proposed development.

If required, the location/position of any site was determined by means of a Global Positioning System (GPS), while photographs were also taken where needed. The survey was undertaken by doing a physical survey via off-road vehicle and on foot and covered as much as possible of the area to be studied. Certain factors, such as accessibility, density of vegetation, etc. may however influence the coverage.

All sites, objects, features and structures identified were documented according to the general minimum standards accepted by the archaeological profession. Co-ordinates of individual localities were determined by means of the Global Positioning System (GPS). The information was added to the description in order to facilitate the identification of each locality.

During the survey three buildings of cultural heritage significance were identified. The area, however, is mostly disturbed by former and recent human interventions and nothing else was found.

Because all three buildings seems to have been renovated, show signs of neglect and are not very unique, they are given a rating of “medium cultural significance” with a field rating of General protection A (IV A). The 2016 report recommended that these be mitigated as indicated below, after which it may be demolished.

- Mitigation would comprise of photographic documentation of identified heritage features and making line drawings of the buildings.
- After mitigation it may either be demolished or altered. In both cases a permit would have to be obtained from the Provincial Heritage Authority of the North West Province.
- It should be noted that the subterranean presence of archaeological and/or historical sites, features or artifacts is always a distinct possibility. Due to this, it is possible that some sites may only become known later on.

- Operating controls and monitoring should therefore be aimed at the possible unearthing of such features. Care should therefore be taken when development commences that if any of these are discovered, a qualified archaeologist be called in to investigate the occurrence.
- The mitigation indicated above had been completed (see Van Vollenhoven 2016b).
- **This means that no further mitigation is needed, and the development may proceed after obtaining the necessary permission from the heritage authorities.**

It should be noted that the subterranean presence of archaeological and/or historical sites, features or artifacts is always a distinct possibility. Due to the density of vegetation, it also is possible that some sites may only become known later on. Operating controls and monitoring should therefore be aimed at the possible unearthing of such features. Care should therefore be taken when development commences that if any of these are discovered, a qualified archaeologist be called in to investigate the occurrence.

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**CURRICULUM VITAE**  
**Prof. Anton Carl van Vollenhoven**

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- BA 1986, University of Pretoria
- BA (HONS) Archaeology 1988 (cum laude), University of Pretoria
- MA Archaeology 1992, University of Pretoria
- Post-Graduate Diploma in Museology 1993 (cum laude), University of Pretoria
- Diploma Tertiary Education 1993, University of Pretoria
- DPhil Archaeology 2001, University of Pretoria.
- MA Cultural History 1998 (cum laude), University of Stellenbosch
- Management Diploma 2007 (cum laude), Tshwane University of Technology
- DPhil History 2010, University of Stellenbosch

**EMPLOYMENT HISTORY**

**Current:**

- *August 2007* – present – Managing Director for Archaetnos Archaeologists.
- *Since 2015*: Extraordinary Professor of History at the North-West University

**Previous:**

- *1988-1991*: Fort Klapperkop Military Museum - Researcher
- *1991-1999*: National Cultural History Museum. Work as Archaeologist, as well as Curator/Manager of Pioneer Museum (1994-1997)
- *1999-2002*: City Council of Pretoria. Work as Curator: Fort Klapperkop Heritage Site and Acting Deputy Manager Museums and Heritage.
- *2002-2007*: City of Tshwane Metropolitan Municipality. Work as Deputy Manager Museums and Heritage.
- *August 2007* – present – Managing Director for Archaetnos Archaeologists.
- *1988-2003*: Part-time lecturer in Archaeology at the University of Pretoria and a part-time lecturer on Cultural Resources Management in the Department of History at the University of Pretoria.
- *2014-2015*: Part-time lecturer for the Honours degree in Museum Sciences in the Department of History and Heritage Studies at the University of Pretoria
- *2020-2021*: Part-time lecturer in History at the North-West University

**OTHER**

- NRF C2 Research rating.
- Has published 40 peer-reviewed and 53 popular articles.
- Has written 13 books/book contributions/conference proceedings .

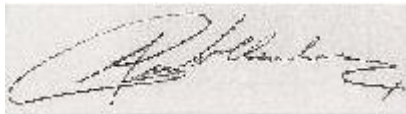
- Has been the author and co-author of over 1076 unpublished reports on cultural resources surveys and archaeological work.
- Has delivered more than 81 papers and lectures at national and international conferences.
- Member of SAHRA Council for 2003 – 2006.
- Member of the South African Academy for Science and Art.
- Member of Association for South African Professional Archaeologists.
- Member of the South African Society for Cultural History (Chairperson 2006-2008; 2012-2014; 2018-2021).
- Has been editor for the SA Journal of Cultural History 2002-2004.
- Editorial member of various scientific journals.
- Member of the Provincial Heritage Resources Agency, Gauteng’s Council.
- Member of Provincial Heritage Resources Agency, Gauteng’s HIA adjudication committee (Chairperson 2012-2024).

A list of reports can be viewed on [www.archaetnos.co.za](http://www.archaetnos.co.za).

### **DECLARATION OF INDEPENDENCE**

I, Anton Carl van Vollenhoven from Archaetnos, hereby declare that I am an independent specialist within the field of heritage management.

Signed:



Date: 8 June 2022

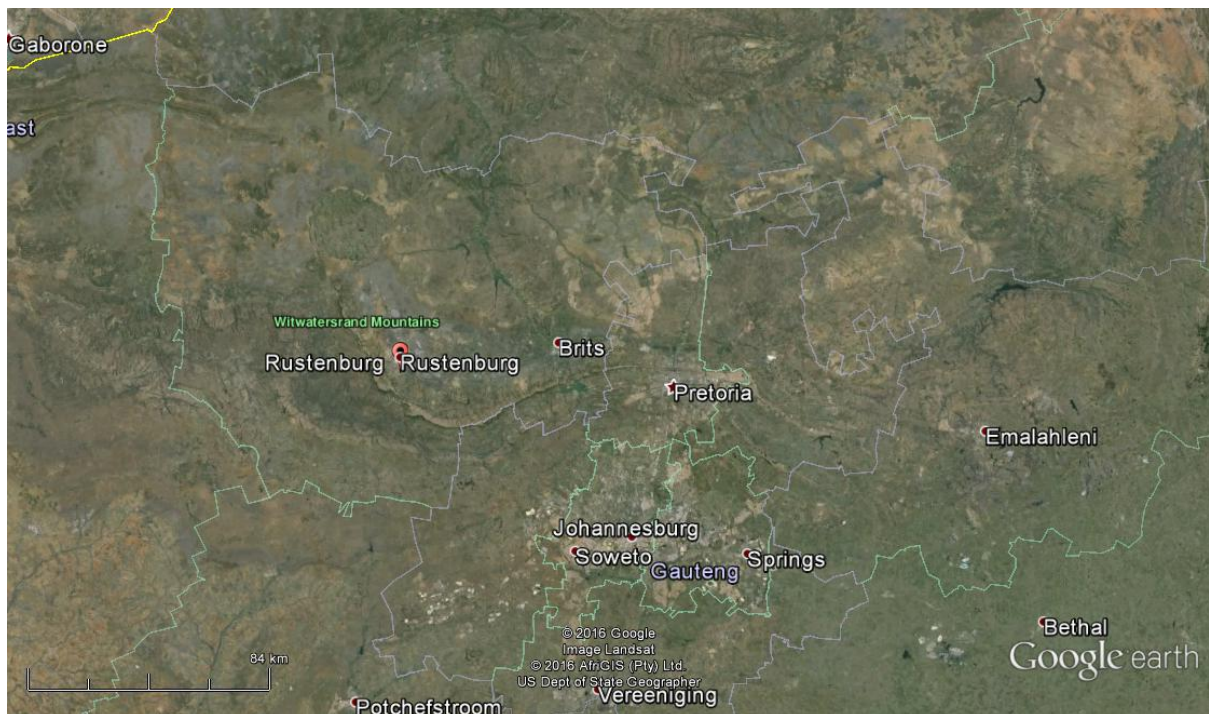
## 1. INTRODUCTION

Archaetnos cc was requested by Hydro Science to conduct a cultural heritage impact assessment (HIA) for a proposed mixed development on portion 385 of the farm Waterkloof 305 JQ. This is in the Rustenburg Local Municipality, Bojanala Platinum District Municipality, North West Province (Figure 1-3).

A section of the site was previously surveyed (see Van Vollenhoven 2016a). However the development is now planned on a larger footprint and thus report needs to be updated. This report is the result thereof.

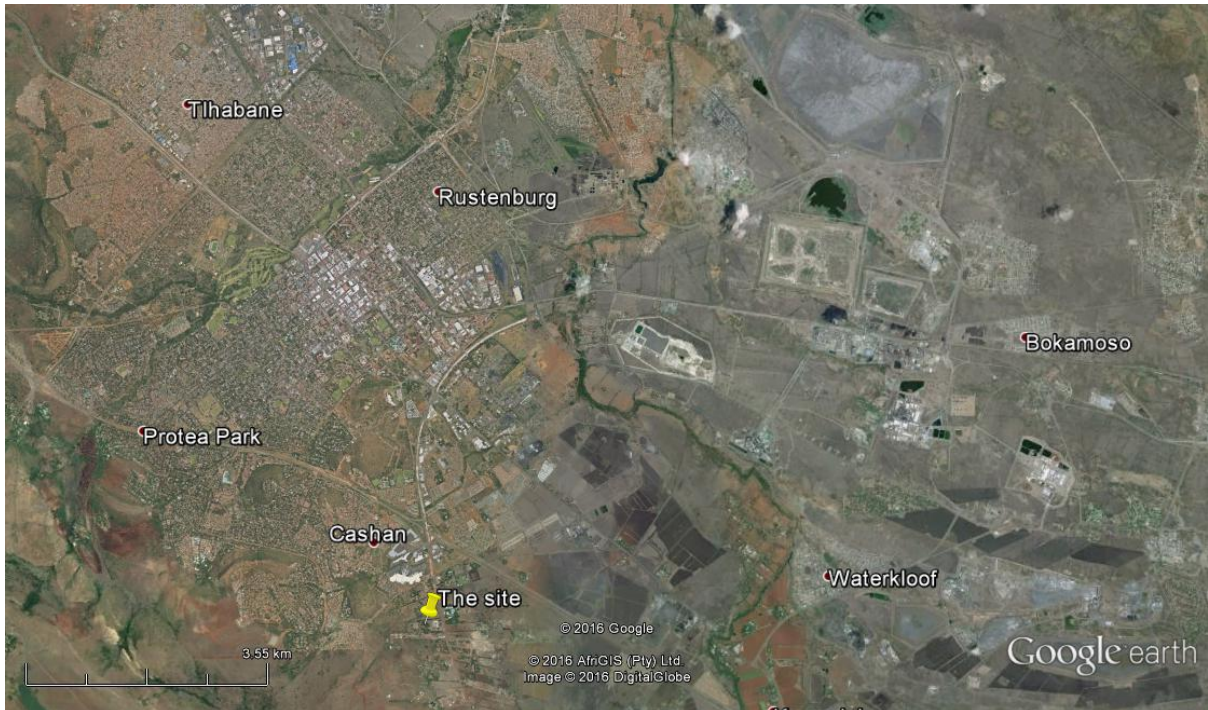
On the eastern portion of the site there is existing buildings, comprising commercial buildings and a hotel. The development includes a proposed residential development on the section adjacent and to the west of the aforementioned. This includes the proposed vegetation clearance and transformation for further development (Figure 4).

The client indicated the area to be surveyed and the survey was confined to this. It was done via foot and via off-road vehicle.

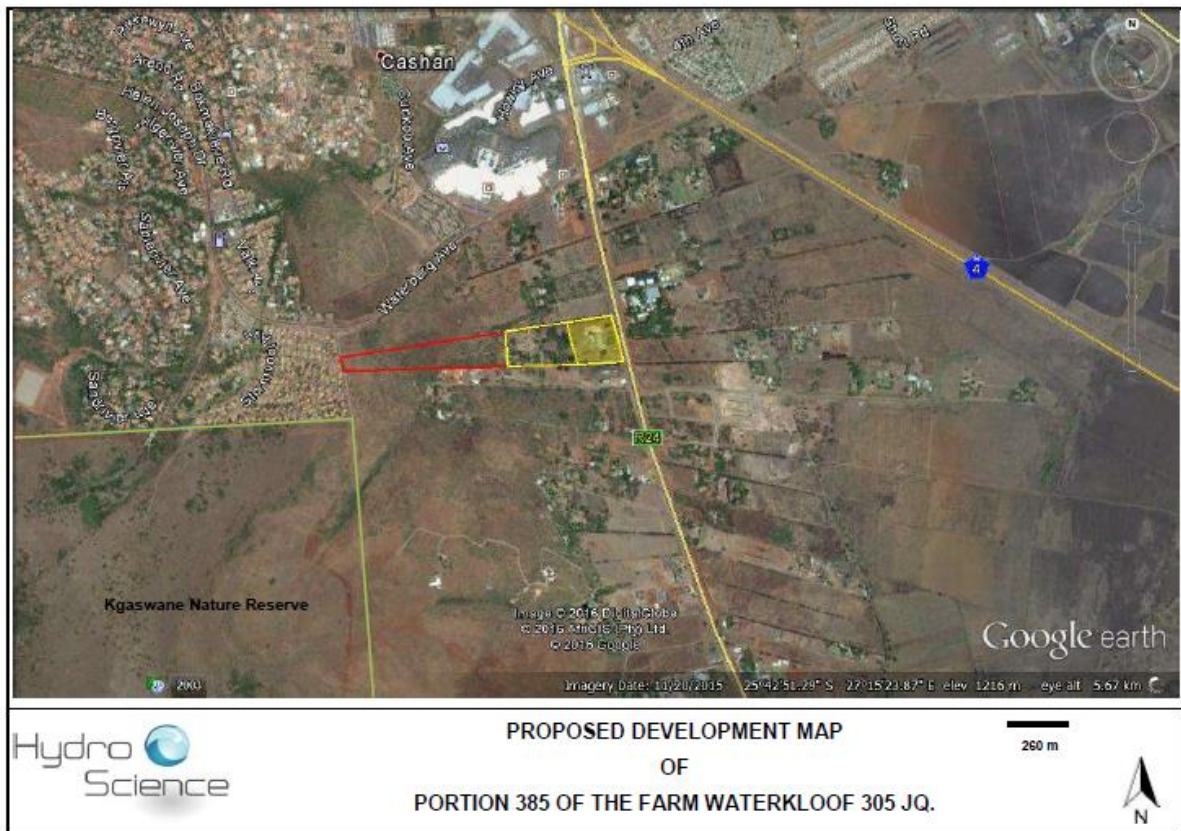


**Figure 1: Location of Rustenburg in the North West Province. North reference is to the top.**





**Figure 2: Location of the project in relation to Rustenburg. North reference is to the top.**



**Figure 3: Proposed development map (Hydro Science). The first (2016) survey concentrated on the area outlined in yellow and the second (2022) on the section outlined in red.**





**Figure 4: Detailed view of site.**

## **2. TERMS OF REFERENCE**

The Terms of Reference for the survey were to:

1. Identify objects, sites, occurrences and structures of an archaeological or historical nature (cultural heritage sites) located on the property (see Appendix A).
2. Document the found cultural heritage sites according to best practice standards for heritage related studies.
3. Study background information on the area to be developed.
4. Assess the significance of the cultural resources in terms of their archaeological, historical, scientific, social, religious, aesthetic and tourism value (see Appendix B).
5. Describe the possible impact of the proposed development on these cultural remains, according to a standard set of conventions.
6. Recommend suitable mitigation measures to minimize possible negative impacts on the cultural resources by the proposed development.
7. Review applicable legislative requirements.

### 3. CONDITIONS & ASSUMPTIONS

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

1. Cultural Resources are all non-physical and physical man-made occurrences, as well as natural occurrences associated with human activity (Appendix A). These include all sites, structures and artifacts of importance, either individually or in groups, in the history, architecture and archaeology of human (cultural) development. Graves and cemeteries are included in this.
2. The significance of the sites, structures and artifacts is determined by means of their historical, social, aesthetic, technological and scientific value in relation to their uniqueness, condition of preservation and research potential. The various aspects are not mutually exclusive, and the evaluation of any site is done with reference to any number of these aspects.
3. Cultural significance is site-specific and relates to the content and context of the site. Sites regarded as having low cultural significance have already been recorded in full and require no further mitigation. Sites with medium cultural significance may or may not require mitigation depending on other factors such as the significance of impact on the site. Sites with a high cultural significance require further mitigation (see Appendix C).
4. The latitude and longitude of any archaeological or historical site or feature, is to be treated as sensitive information by the developer and should not be disclosed to members of the public.
5. All recommendations are made with full cognizance of the relevant legislation.
6. It has to be mentioned that it is almost impossible to locate all the cultural resources in a given area, as it will be very time consuming. Developers should, however, note that the report should make it clear how to handle any other finds that might occur.
7. In this particular case, the entire eastern section of the site has been developed and therefore no natural vegetation occurs. The horizontal as well as the vertical archaeological visibility are therefore not affected.
8. The area towards the west, shows natural vegetation. It seems undisturbed but vegetation cover is dense, which had a negative effect on archaeological visibility.
9. Final impact on heritage resources can only be determined once final layout plans are available.

## 4. LEGISLATIVE REQUIREMENTS

Aspects concerning the conservation of cultural resources are dealt with mainly in two acts. The first of these are the National Heritage Resources Act (Act 25 of 1999), which deals with the cultural heritage of the Republic of South Africa. The second is the National Environmental Management Act (Act 107 of 1998), which inter alia deals with cultural heritage as part of the Environmental Impact Assessment process.

### 4.1 The National Heritage Resources Act

According to the above-mentioned act the following is protected as cultural heritage resources:

- a. Archaeological artifacts, structures and sites older than 100 years
- b. Ethnographic art objects (e.g. prehistoric rock art) and ethnography
- c. Objects of decorative and visual arts
- d. Military objects, structures and sites older than 75 years
- e. Historical objects, structures and sites older than 60 years
- f. Proclaimed heritage sites
- g. Grave yards and graves older than 60 years
- h. Meteorites and fossils
- i. Objects, structures and sites of scientific or technological value.

The national estate (see Appendix D) includes the following:

- a. Places, buildings, structures and equipment of cultural significance
- b. Places to which oral traditions are attached or which are associated with living heritage
- c. Historical settlements and townscapes
- d. Landscapes and features of cultural significance
- e. Geological sites of scientific or cultural importance
- f. Archaeological and paleontological importance
- g. Graves and burial grounds
- h. Sites of significance relating to the history of slavery
- i. Movable objects (e.g. archaeological, paleontological, meteorites, geological specimens, military, ethnographic, books etc.)

A Heritage Impact Assessment (HIA) is the process to be followed in order to determine whether any heritage resources are located within the area to be developed as well as the possible impact of the proposed development there on. An Archaeological Impact Assessment only looks at archaeological resources and can only be done by a professional archaeologist. A Palaeontological Impact Assessment (PIA) is an assessment of palaeontological heritage. Palaeontology is a different field of study, and although also sometimes required by the South African Heritage Resources Agency (SAHRA)<sup>1</sup>, should be done by a professional palaeontologist.

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<sup>1</sup> Please consult SAHRA to determine whether a PIA is necessary.

The different phases during the HIA process are described in Appendix E. An HIA must be done under the following circumstances:

- a. The construction of a linear development (road, wall, power line canal etc.) exceeding 300m in length
- b. The construction of a bridge or similar structure exceeding 50m in length
- c. Any development or other activity that will change the character of a site and exceed 5 000m<sup>2</sup> or involve three or more existing erven or subdivisions thereof
- d. Re-zoning of a site exceeding 10 000 m<sup>2</sup>
- e. Any other category provided for in the regulations of SAHRA or a provincial heritage authority

### **Structures**

Section 34 (1) of the mentioned act states that no person may demolish any structure or part thereof which is older than 60 years without a permit issued by the relevant provincial heritage resources authority.

A 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.

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 the decoration or any other means.

### **Archaeology, palaeontology and meteorites**

Section 35(4) of this act deals with archaeology, palaeontology and meteorites. The act states that no person may, without a permit issued by the responsible heritage resources authority (national or provincial):

- a. destroy, damage, excavate, alter, deface or otherwise disturb any archaeological or paleontological site or any meteorite;
- b. destroy, damage, excavate, remove from its original position, collect or own any archaeological or paleontological material or object or any meteorite;
- c. trade in, sell for private gain, export or attempt to export from the Republic any category of archaeological or paleontological material or object, or any meteorite; or
- d. bring onto or use at an archaeological or paleontological site any excavation equipment or any equipment that assists in the detection or recovery of metals or archaeological and paleontological material or objects or use such equipment for the recovery of meteorites.
- e. alter or demolish any structure or part of a structure which is older than 60 years as protected.

The above mentioned may only be disturbed or moved by an archaeologist, after receiving a permit from the South African Heritage Resources Agency (SAHRA). In order to demolish such a site or structure, a destruction permit from SAHRA will also be needed.

### **Human remains**

Graves and burial grounds are divided into the following:

- a. ancestral graves
- b. royal graves and graves of traditional leaders
- c. graves of victims of conflict
- d. graves designated by the Minister
- e. historical graves and cemeteries
- f. human remains

In terms of Section 36(3) of the National Heritage Resources Act, no person may, without a permit issued by the relevant heritage resources authority:

- a. destroy, damage, alter, exhume or remove from its original position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;
- b. destroy, damage, alter, exhume or remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery administered by a local authority; or
- c. bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation, or any equipment which assists in the detection or recovery of metals.

Unidentified/unknown graves are also handled as older than 60 until proven otherwise. Human remains that are less than 60 years old are subject to provisions of the **National Health Act (Act 61 of 2003)** and to local regulations. Exhumation of graves must conform to the standards set out in the **Ordinance on Exhumations (Ordinance no. 12 of 1980)** (replacing the old Transvaal Ordinance no. 7 of 1925).

Permission must also be gained from the descendants (where known), the National Department of Health, Provincial Department of Health, Premier of the Province and local police. Furthermore, permission must also be gained from the various landowners (i.e. where the graves are located and where they are to be relocated) before exhumation can take place. Human remains can only be handled by a registered undertaker, or an institution declared under the **National Health Act (Act 61 of 2003)**.

## **4.2 The National Environmental Management Act**

This act (Act 107 of 1998) states that a survey and evaluation of cultural resources must be done in areas where development projects, that will change the face of the

environment, will be undertaken. The impact of the development on these resources should be determined and proposals for the mitigation thereof are made.

Environmental management should also take the cultural and social needs of people into account. Any disturbance of landscapes and sites that constitute the nation's cultural heritage should be avoided as far as possible and where this is not possible the disturbance should be minimized and remedied.

## **5. THE INTERNATIONAL FINANCE CORPORATIONS' PERFORMANCE STANDARD FOR CULTURAL HERITAGE**

This standard recognizes the importance of cultural heritage for current and future generations. It aims to ensure that clients protect cultural heritage in the course of their project activities.

This is done by clients abiding to the law and having heritage surveys done in order to identify and protect cultural heritage resources via field studies and the documentation of such resources. These need to be done by competent professionals (e.g. archaeologists and cultural historians).

Possible chance finds, encountered during the project development, also need to be managed by not disturbing such finds and by having them assessed by professionals. Impacts on the cultural heritage should be minimized. This include the possible maintenance of such sites in situ, or when impossible, the restoration of the functionality of the cultural heritage in a different location.

When cultural historical and archaeological artifacts and structures need to be removed it should be done by professionals and by abiding to the applicable legislation. The removal of cultural heritage resources may, however, only be considered if there are no technically or financially feasible alternatives.

In considering the removal of cultural resources, it should be outweighed by the benefits of the overall project to the effected communities. Again professionals should carry out the work and adhere to the best available techniques.

Consultation with affected communities should be undertaken. This entails that access to such communities should be granted to their cultural heritage if this is applicable. Compensation for the loss of cultural heritage should only be given in extra-ordinary circumstances.

Critical cultural heritage may not be impacted on. Professionals should be used to advise on the assessment and protection thereof. Utilization of cultural heritage resources should always be done in consultation with the effected communities in order to be consistent with their customs and traditions and to come to agreements with relation to possible equitable sharing of benefits from commercialization.



## 6. METHODOLOGY

### 6.1 Survey of literature

A survey of literature was undertaken in order to obtain background information regarding the area. Sources consulted in this regard are indicated in the bibliography.

### 6.2 Field survey

The survey was conducted according to generally accepted HIA practices and was aimed at locating all possible objects, sites and features of cultural significance in the area of proposed development. One regularly looks a bit wider than the demarcated area, as the surrounding context needs to be taken into consideration.

If required, the location/position of any site was determined by means of a Global Positioning System (GPS)<sup>2</sup>, while photographs were also taken where needed. The survey was undertaken by doing a physical survey via off-road vehicle and on foot and covered as much as possible of the area to be studied (Figure 5-6).

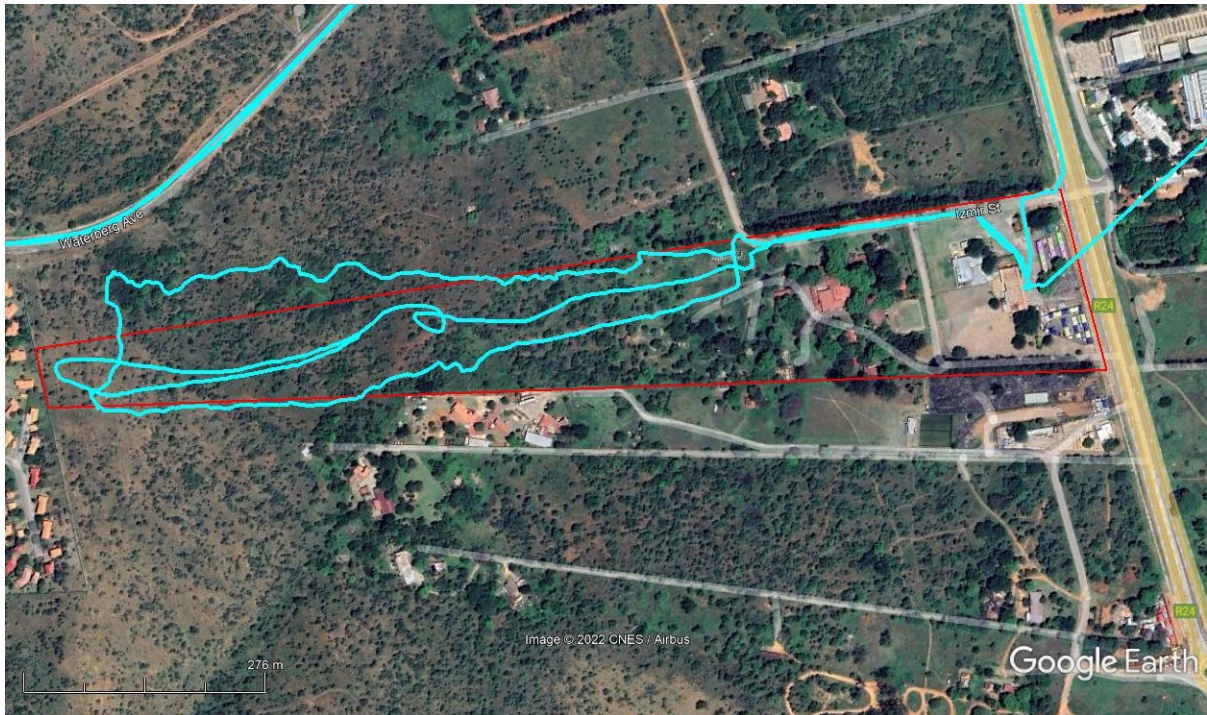
Certain factors, such as accessibility, density of vegetation, etc. may however influence the coverage. The size of the entire site is approximately 18 Ha. Two surveys were done, one on the eastern portion in 2016 and one on the western portion in 2022. The surveys took 4 hours to complete.



**Figure 5: GPS track of the survey done in 2016.**

<sup>2</sup> A Garmin Oregon 550 with an accuracy factor of a few meters.





**Figure 6: GPS track of the survey done in 2022.**

### 6.3 Oral histories

People from local communities are interviewed in order to obtain information relating to the surveyed area. It needs to be stated that this is not applicable under all circumstances. When applicable, the information is included in the text and referred to in the bibliography.

### 6.4 Documentation

All sites, objects, features and structures identified were documented according to the general minimum standards accepted by the archaeological profession. Coordinates of individual localities were determined by means of the Global Positioning System (GPS). The information was added to the description in order to facilitate the identification of each locality.

### 6.5 Evaluation of Heritage sites

The evaluation of heritage sites is done by giving a field rating of each (see Appendix C) using the following criteria:

- 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
- Uniqueness of the site and

- Potential to answer present research questions.

## 7. DESCRIPTION OF THE AREA

The site is located close to Rustenburg in an area used for smallholdings, commercial, residential and other purposes. As such, this area has largely been disturbed by human activities. This is especially true of the eastern section of the site where commercial buildings, including a hotel is located. These are regarded as low-density commercial activities and other developments. Buildings and other features are indications of the disturbance in the area (Figure 7).

The central area consists of a landscaped environment consisting of many buildings, garden features and other structures. Some of the buildings are temporary (Figure 8) while others are permanent. The latter are mostly younger than 60 years and therefore have no heritage value. A few may be older than 60 years, although it has no specific features giving it heritage value (Figure 9-10). Three buildings will be discussed below.

The western section consists of undisturbed natural vegetation. The vegetation cover is dense consisting of grass and trees (Figure 11). Signs of illegal dumping were observed during the site visit (Figure 12). There also is a servitude road on both sides and thus it actually is a narrow strip of land surrounded by modern dwellings.

The topography of the surveyed area is steep, falling from west to east. The western section is on the slope of a mountain, but the eastern section has been flattened and is adjacent to an existing tar road. No natural drainage line was observed.



**Figure 7: View of a commercial infrastructure.**





**Figure 8: Temporary structure in the surveyed area.**



**Figure 9: Examples of buildings with no heritage value.**





**Figure 10: Another example of a formal building with little heritage value in the study area.**



**Figure 11: View of dense vegetation towards the west of the surveyed area.**



**Figure 12: Illegal dumping towards the west of the surveyed area.**

## **8. HISTORICAL CONTEXT**

Three buildings of cultural heritage significance were identified during the survey. Some background information is given below in order to place the surveyed area and the sites found in a historical context and to contextualize possible finds that could be unearthed during construction activities.

Quite a large number of reports were written about the Rustenburg area and a few on the farm Waterkloof. These documents describe objects of very limited heritage value, limiting any perceived value to the historical buildings and graves found here (SAHRIS database; Archaetos' database).

### **8.1 Stone Age**

The Stone Age is the period in human history when lithic material was mainly used to produce tools (Coertze & Coertze 1996: 293). In South Africa the Stone Age can be divided into three periods. It is, however, important to note that dates are relative and only provide a broad framework for interpretation. The division for the Stone Age according to Korsman & Meyer (1999: 93-94) is as follows:

- Early Stone Age (ESA) 2 million – 150 000 years ago;
- Middle Stone Age (MSA) 150 000 – 30 000 years ago; and
- Late Stone Age (LSA) 40 000 years ago – 1850 - A.D.

The closest known Stone Age site in the vicinity of the surveyed area is a rock art site to the northeast of Rustenburg, not close to this development. A number of Late Stone Age sites are also known from the Magaliesberg Mountains. Rock engravings



are found to the south and east of Rustenburg. These date back to the Late Stone Age (Bergh 1999: 4-5).

No natural shelter exists on the property, but the Magaliesberg Mountain Range is only a few kilometers to the south of the site. The area probably provided good grazing and therefore it is possible that Stone Age people may have utilized the site for hunting purposes. One may therefore find Stone Age material out of context lying around, but since the site has been disturbed it will not have much significance.

## **8.2 Iron Age**

The Iron Age is the name given to the period of human history when metal was mainly used to produce metal artifacts (Coertze & Coertze 1996: 346). In South Africa it can be divided in two separate Iron ages according to Van der Ryst & Meyer (1999: 96-98), namely:

- Early Iron Age (EIA) 200 – 1000 A.D; and
- Late Iron Age (LIA) 1000 – 1850 A.D.

Huffman (2007: xiii) however, indicates that a Middle Iron Age should be included. His dates, which now seem to be widely accepted in archaeological circles, are:

- Early Iron Age (EIA) 250 – 900 A.D.;
- Middle Iron Age (MIA) 900 – 1300 A.D.; and
- Late Iron Age (LIA) 1300 – 1840 A.D.

Many Late Iron Age sites have been identified in the area around the towns of Rustenburg, Koster and Groot Marico as well as in the Waterberg Mountains, which excludes the surveyed area (Bergh 1999: 7-8). During earlier times, this part of the Northwest Province was inhabited by Tswana groups, namely the Fokeng and Kwenana. These people fled from Mzilikazi during the Difaquane, but later on returned (Bergh 1999: 9-11).

Since the environment has been totally disturbed, one would not expect to find large Iron Age sites. The close proximity to the Magaliesberg Mountain may, however, mean that people used the plains and therefore isolated pottery may well be present. Again it is possible that isolated decontextualized finds may be present, but these will not have significance.

## **8.3 Historical Age**

The historical age began with the first recorded oral histories in the area. It includes the moving into the area of people that were literate. This era is often referred to as the Colonial era, or the recent past.

Due to factors such as population growth and a decrease in mortality rates, more people inhabited the country during the recent historical past. Therefore, much more cultural heritage resources from this era have been left on the landscape. It is important to note that all cultural resources older than 60 years are potentially

regarded as part of the heritage and that detailed studies are required in order to determine whether these indeed have cultural significance. Factors to be considered include aesthetic, scientific, cultural and religious value of such resources.

Early travelers have moved through this part of the Northwest Province. This included Coenraad de Buys in 1821 and 1825, David Hume in 1825, Robert Scoon and William McLuckie in 1827 and 1829 and Dr. Robert Moffat and Reverend James Archbell in 1829 (Bergh 1999: 12, 117-119).

Hume again moved through this area in 1830 followed by the expedition of Dr. Andrew Smith in 1835 (Bergh 1999: 13, 120-121). Hume again moved through the area with Scoon in 1835. In 1836 William Cornwallis Harris visited the area. The well-known explorer Dr. David Livingston passed through this area in 1847 (Bergh 1999: 13, 119-122).

In 1837 the Voortrekkers also moved through the Swartruggens area (Bergh 1999: 11). During this year, a Voortrekker commando moved out against Mzilikazi and was engaged in a battle with his impi to the north of Swartruggens. The area surveyed was inhabited by white settlers as early as 1839 (Bergh 1999: 14-15).

The greater Magaliesberg and Rustenburg area was hotly contested during the Anglo-Boer War (1899-1902). British troops reached Rustenburg on 14 June 1900. Three battles occurred here during the War - the first at Buffelspoort on 3 December 1900, a further clash at Nooitgedacht on 13 December 1900 and third skirmish at Vlakfontein on 29 May 1901 (Bergh 1999: 51-52).

Historical structures, such as farm houses and infrastructure relating to these times, may be found in the surveyed area. It is also possible that graves associated with the above, may be present. Such structures were indeed identified close to the surveyed area during previous studies (Archaetnos database). It needs to be noted that the former President Paul Kruger owned the farm during the mid 1800's.

## **9. DISCUSSION OF HERITAGE SITES IDENTIFIED DURING THE SURVEY**

As indicated above, three buildings with cultural heritage significance were identified (Figure 12). These are most likely associated with each other and are therefore discussed in an integrated manner.

Although all 3 buildings are perceived to be older than 60 years, they seem to have been renovated/renewed in the past but show various degrees of neglect. The buildings are not unique and therefore have a medium cultural significance. General protection A (IV A), meaning it should be mitigated before destruction.

Mitigation would comprise a Phase II heritage report consisting of photographic documentation of the structures and making detailed drawings identifying heritage features and making line drawings of the buildings. After mitigation, it may either be demolished or altered. In both cases a permit would have to be obtained from the Provincial Heritage Authority of the North West Province.

It needs to be indicated that these buildings have already been mitigated (see Van Vollenhoven. This was done by documenting them in accordance with recommendations of the first report (Van Vollenhoven 2016b). For completeness sake the basic information is however repeated here.



**Figure 12: Google image indicating the location of the three buildings identified.**

**Building 1** is used as a hotel (Figure 13).

GPS: 25°42'50.19"S  
27°15'17.17"E

**Building 2** is used for residential purposes (Figure 14).

GPS: 25°42'51.02"S  
27°15'19.02"E

**Building 3** has a residential function (Figure 15).

GPS: 25°42'49.81"S  
27°15'20.03"E





**Figure 13: The hotel building.**



**Figure 14: Residential building.**



**Figure 15: Another residential building older than 60 years.**

## **10. CONCLUSION AND RECOMMENDATIONS**

The survey of the indicated area was completed successfully. As indicated, three buildings with definitive, albeit limited, cultural heritage were identified.

Because all three buildings seems to have been renovated, show signs of neglect and are not very unique, they are given a rating of “medium cultural significance” with a field rating of General protection A (IV A). The 2016 report recommended that these be mitigated as indicated below, after which it may be demolished.

- Mitigation would comprise of photographic documentation of identified heritage features and making line drawings of the buildings.
- After mitigation it may either be demolished or altered. In both cases a permit would have to be obtained from the Provincial Heritage Authority of the North West Province.
- It should be noted that the subterranean presence of archaeological and/or historical sites, features or artifacts is always a distinct possibility. Due to this, it is possible that some sites may only become known later on.
- Operating controls and monitoring should therefore be aimed at the possible unearthing of such features. Care should therefore be taken when development commences that if any of these are discovered, a qualified archaeologist be called in to investigate the occurrence.

- The mitigation indicated above had been completed (see Van Vollenhoven 2016b).
- **This means that no further mitigation is needed, and the development may proceed after obtaining the necessary permission from the heritage authorities.**

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## **APPENDIX A**

### **DEFINITION OF TERMS:**

Site: A large place with extensive structures and related cultural objects. It can also be a large assemblage of cultural artifacts, found on a single location.

Structure: A permanent building found in isolation, or which forms a site in conjunction with other structures.

Feature: A coincidental find of movable cultural objects.

Object: Artifact (cultural object).

(Also see Knudson 1978: 20).

## **APPENDIX B**

### **DEFINITION/ STATEMENT OF HERITAGE SIGNIFICANCE:**

- Historic value: Important in the community or pattern of history or has an association with the life or work of a person, group or organization of importance in history.
- Aesthetic value: Important in exhibiting particular aesthetic characteristics valued by a community or cultural group.
- Scientific value: Potential to yield information that will contribute to an understanding of natural or cultural history or is important in demonstrating a high degree of creative or technical achievement of a particular period
- Social value: Have a strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.
- Rarity: Does it possess uncommon, rare or endangered aspects of natural or cultural heritage.
- Representivity: Important in demonstrating the principal characteristics of a particular class of natural or cultural places or object or a range of landscapes or environments characteristic of its class or of human activities (including way of life, philosophy, custom, process, land-use, function, design or technique) in the environment of the nation, province region or locality.

## APPENDIX C

### SIGNIFICANCE AND FIELD RATING:

#### Cultural significance:

- Low            A cultural object being found out of context, not being part of a site or without any related feature/structure in its surroundings.
- Medium        Any site, structure or feature being regarded less important due to a number of factors, such as date and frequency. Also any important object found out of context.
- High            Any site, structure or feature regarded as important because of its age or uniqueness. Graves are always categorized as of a high importance. Also any important object found within a specific context.

#### Heritage significance:

- Grade I        Heritage resources with exceptional qualities to the extent that they are of national significance
- Grade II       Heritage resources with qualities giving it provincial or regional importance although it may form part of the national estate
- Grade III      Other heritage resources of local importance and therefore worthy of conservation

#### Field ratings:

National Grade I significance	should be managed as part of the national estate
Provincial Grade II significance	should be managed as part of the provincial estate
Local Grade IIIA	should be included in the heritage register and not be mitigated (high significance)
Local Grade IIIB	should be included in the heritage register and may be mitigated (high/ medium significance)
<b>General protection A (IV A)</b>	<b>site should be mitigated before destruction (high/ medium significance)</b>
General protection B (IV B)	site should be recorded before destruction (medium significance)
General protection C (IV C)	phase 1 is seen as sufficient recording and it may be demolished (low significance)

## **APPENDIX D**

### **PROTECTION OF HERITAGE RESOURCES:**

#### **Formal protection:**

National heritage sites and Provincial heritage sites – grade I and II

Protected areas - an area surrounding a heritage site

Provisional protection – for a maximum period of two years

Heritage registers – listing grades II and III

Heritage areas – areas with more than one heritage site included

Heritage objects – e.g. archaeological, palaeontological, meteorites, geological specimens, visual art, military, numismatic, books, etc.

#### **General protection:**

Objects protected by the laws of foreign states

Structures – older than 60 years

Archaeology, palaeontology and meteorites

Burial grounds and graves

Public monuments and memorials

## APPENDIX E

### HERITAGE IMPACT ASSESSMENT PHASES

1. Pre-assessment or scoping phase – establishment of the scope of the project and terms of reference.
2. Baseline assessment – establishment of a broad framework of the potential heritage of an area.
- 3. Phase I impact assessment – identifying sites, assess their significance, make comments on the impact of the development and makes recommendations for mitigation or conservation.**
4. Letter of recommendation for exemption – if there is no likelihood that any sites will be impacted.
5. Phase II mitigation or rescue – planning for the protection of significant sites or sampling through excavation or collection (after receiving a permit) of sites that may be lost.
6. Phase III management plan – for rare cases where sites are so important that development cannot be allowed.