

**Cultural heritage impact assessment report for
THE PROPOSED CONSTRUCTION OF A 44kV SUBSTATION AND POWERLINE,
DELMAS NORTH, MPUMALANGA PROVINCE**

HERITAGE IMPACT ASSESSMENT REPORT FOR THE PROPOSED CONSTRUCTION OF A 44kV SUBSTATION AND POWERLINE, DELMAS NORTH, MPUMALANGA PROVINCE

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Declaration:

I, J.A. van Schalkwyk, declare that I do not have any financial or personal interest in the proposed development, nor its developers or any of their subsidiaries, apart from the provision of heritage assessment and management services



J A van Schalkwyk (D Litt et Phil)
Heritage Consultant
June 2014

EXECUTIVE SUMMARY**HERITAGE IMPACT ASSESSMENT REPORT FOR THE PROPOSED CONSTRUCTION OF A 44kV SUBSTATION AND POWERLINE, DELMAS NORTH, MPUMALANGA PROVINCE**

Due to an increased demand for electricity in the region, Eskom propose the construction of a 44 kV substation and power line north of the town of Delmas, Gauteng province. For this purpose two alternative sites were selected and three possible routes were identified for the line to follow.

In accordance with Section 38 of the NHRA, an independent heritage consultant was appointed by **Royal HaskoningDHV** to conduct a Heritage Impact Assessment (HIA) to determine if the proposed routes and substation would have an impact on any sites, features or objects of cultural heritage significance.

- As no sites, features or objects of cultural significance are known to exist in the study area, there would be no impact as a result of the proposed development.

Therefore, from a heritage point of view we recommend that the proposed development can continue on condition of acceptance of the above mitigation measure. We also recommend that if archaeological sites or graves are exposed during development activities, it should immediately be reported to a heritage consultant so that an investigation and evaluation of the finds can be made.



J A van Schalkwyk
Heritage Consultant
June 2014

TECHNICAL SUMMARY

Property details	
Province	Mpumalanga Province
District municipality	Nkangala
Local municipality	Victor Khanye
Closest town	Delmas

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

Development	
Description	Development of a 44kV Powerline
Project name	Delmas Substation and Powerline

Land use	
Previous land use	Farming
Current land use	Farming

TABLE OF CONTENTS

	Page
EXECUTIVE SUMMARY	II
TECHNICAL SUMMARY	III
TABLE OF CONTENTS	IV
LIST OF FIGURESIV
GLOSSARY OF TERMS AND ABBREVIATIONSV
1. INTRODUCTION	1
2. TERMS OF REFERENCE	1
3. HERITAGE RESOURCES	2
4. STUDY APPROACH AND METHODOLOGY	3
5. DESCRIPTION OF THE AFFECTED ENVIRONMENT	5
6. SITE SIGNIFICANCE AND ASSESSMENT 9
7. CONCLUSIONS	9
8. REFERENCES	10
APPENDIX 1: CONVENTIONS USED TO ASSESS THE IMPACT OF PROJECTS ON HERITAGE RESOURCES	11
APPENDIX 2. RELEVANT LEGISLATION	13

LIST OF FIGURES

	Page
Fig. 1. Track log of the foot survey. 4
Fig. 2 Views over the study area. 5
Fig. 3. Layout of the proposed development.	6
Fig. 4. Location of the study area (green outline) and known sites of heritage significance	8

GLOSSARY OF TERMS AND ABBREVIATIONS

TERMS

Study area: Refers to the entire study area as indicated by the client in the accompanying Fig. 1 - 2.

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

Early Stone Age 2 000 000 - 150 000 Before Present

Middle Stone Age 150 000 - 30 000 BP

Later Stone Age 30 000 - until c. AD 200

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

Early Iron Age AD 200 - AD 900

Middle Iron Age AD 900 - AD 1300

Late Iron Age AD 1300 - AD 1830

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

ABBREVIATIONS

ADRC Archaeological Data Recording Centre

ASAPA Association of Southern African Professional Archaeologists

CS-G Chief Surveyor-General

EIA Early Iron Age

ESA Early Stone Age

LIA Late Iron Age

LSA Later Stone Age

HIA Heritage Impact Assessment

MSA Middle Stone Age

NASA National Archives of South Africa

NHRA National Heritage Resources Act

PHRA Provincial Heritage Resources Agency

SAHRA South African Heritage Resources Agency

HERITAGE IMPACT ASSESSMENT REPORT FOR THE PROPOSED CONSTRUCTION OF A 44kV SUBSTATION AND POWERLINE, DELMAS NORTH, MPUMALANGA PROVINCE

1. INTRODUCTION

Due to an increased demand for electricity in the region, Eskom propose the construction of a 44 kV substation and power line north of the town of Delmas, Gauteng province. For this purpose two alternative sites were selected and three possible routes were identified for the line to follow.

South Africa's heritage resources, also described as the 'national estate', comprise a wide range of sites, features, objects and beliefs. However, according to Section 27(18) of the National Heritage Resources Act (NHRA), No. 25 of 1999, no person may destroy, damage, deface, excavate, alter, remove from its original position, subdivide or change the planning status of any heritage site without a permit issued by the heritage resources authority responsible for the protection of such site.

In accordance with Section 38 of the NHRA, an independent heritage consultant was appointed by **Royal HaskoningDHV** to conduct a Heritage Impact Assessment (HIA) to determine if the proposed routes and substation would have an impact on any sites, features or objects of cultural heritage significance.

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

2. TERMS OF REFERENCE

This report does not deal with development projects outside of or even adjacent to the study area as is presented in Section 5 of this report. The same holds true for heritage sites, except in a generalised sense where it is used to create an overview of the heritage potential in the larger region.

2.1 Scope of work

The aim of this assessment, broadly speaking, is to determine if any sites, features or objects of cultural heritage significance occur within the boundaries of the area where it is planned to develop the power lines and substations.

This includes:

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

The objectives were to

Identify possible archaeological, cultural and historic sites within the proposed development areas;

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

2.2 Limitations

The investigation has been influenced by the following factors:

- The unpredictability of archaeological remains occurring below the surface.
- This report does not consider the palaeontological potential of the development site.

3. HERITAGE RESOURCES

3.1 The National Estate

The NHRA (No. 25 of 1999) defines the heritage resources of South Africa which are of cultural significance or other special value for the present community and for future generations that must be considered part of the national estate to 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 palaeontological sites;
- graves and burial grounds, including-
- ancestral graves;
- royal graves and graves of traditional leaders;
- graves of victims of conflict;
- graves of individuals designated by the Minister by notice in the Gazette;
- 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 the history of slavery in South Africa;
- movable objects, including-
 - objects recovered from the soil or waters of South Africa, including archaeological and palaeontological objects and material, meteorites and rare geological specimens;
 - objects to which oral traditions are attached or which are associated with living heritage;
 - ethnographic art and objects;
 - military objects;
 - objects of decorative or fine art;
 - objects of scientific or technological interest; and
 - 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(xiv) of the National Archives of South Africa Act, 1996 (Act No. 43 of 1996).

3.2 Cultural significance

In the NHRA, Section 2 (vi), it is stated that “cultural significance” means aesthetic, architectural, historical, scientific, social, spiritual, linguistic or technological value or significance. This is determined in relation to a site or feature’s uniqueness, condition of preservation and research potential.

According to Section 3(3) of the NHRA, a place or object is to be considered part of the national estate if it has cultural significance or other special value because of

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

A matrix was developed whereby the above criteria were applied for the determination of the significance of each identified site (see Appendix 1). This allowed some form of control over the application of similar values for similar identified sites.

4. STUDY APPROACH AND METHODOLOGY

4.1 Extent of the Study

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

4.2 Methodology

4.2.1 Preliminary investigation

4.2.1.1 Survey of the literature

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

- No publications exist on the history of the area.
- A number of impact assessment reports (De Jong 2003; Nkangala 2004; Van Schalkwyk 2009) deals with various developments in the region.

4.2.1.2 Data bases

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

- Database surveys produced a number of sites located in adjacent areas.
- Deeds of Transfer for some of the farms were found in the records of the Chief Surveyor General's records, but contributed little with regard to heritage sites.

4.2.1.3 Other sources

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

- Information of a very general nature were obtained from these sources

4.2.2 Field survey

The area that had to be investigated was identified by **Royal HaskoningDHV** by means of maps (Fig. 2 & 3). The site was surveyed by following the proposed power line routes – see Fig. 1.

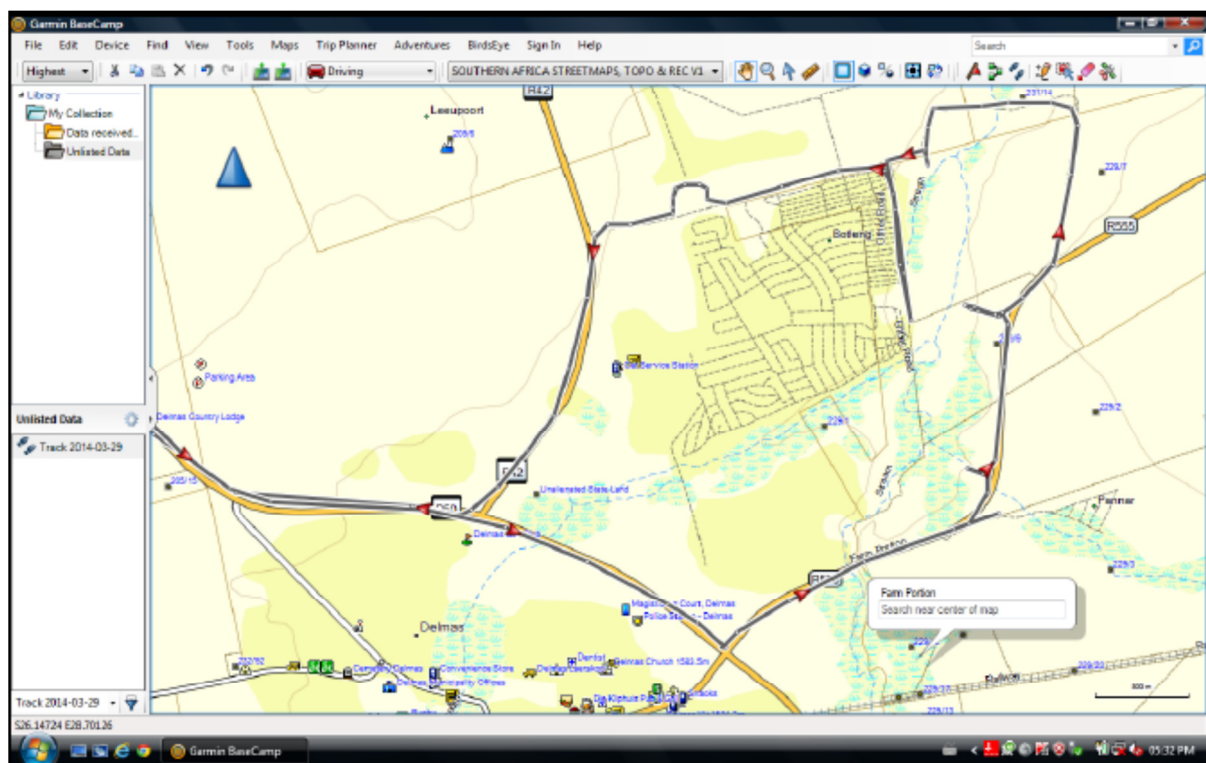


Fig. 1. Track log of the foot survey.

4.2.3 Documentation

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

The track log and identified sites were recorded by means of a Garmin Oregon 550 handheld GPS device. Photographic recording was done by means of a Canon EOS 550D digital camera.

Map datum used: Hartebeeshoek 94 (WGS84).

5. DESCRIPTION OF THE AFFECTED ENVIRONMENT

5.1 Site location

The proposed transmission line will stretch eastwards from north of the town of Delmas for 2,2 km, before turning to the southeast for a distance of 2 km. Most of the area is either used for urban development, or for agricultural activities (see Fig. 1). For more information, please see the Technical Summary presented above (p. iii).

The geology is made up of tillite, with norite to the south of the study area. The topography of the area is described as slightly undulating plains and the original vegetation is classified a Rocky Highveld Grassland.

Sections of the region have been occupied by informal settlements, with people dumping rubble all over.



Fig. 2 Views over the study area.

5.2 Development proposal

Eskom propose the construction of a 44 kV substation and power line north of the town of Delmas, Gauteng province. For this purpose two alternative sites were selected and three possible routes were identified for the line to follow. In addition a small possible deviation has been indicated for the third line option (Fig. 3).

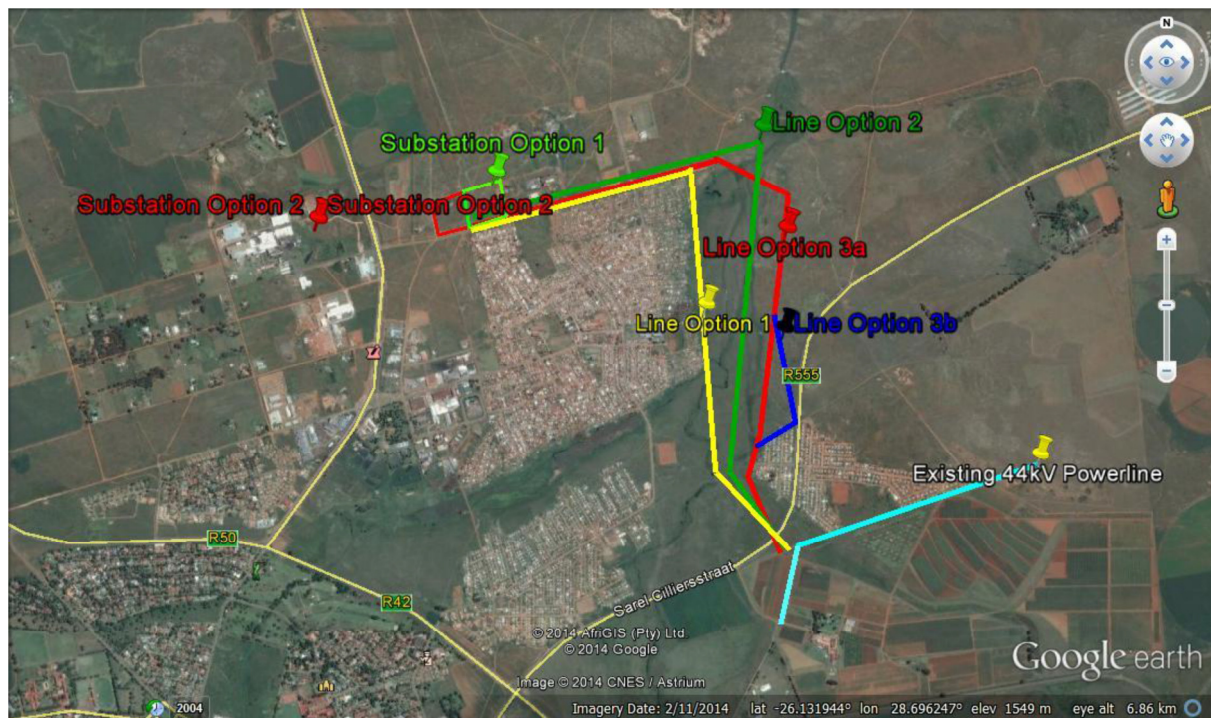


Fig. 3. Layout of the proposed development.
(Map supplied by Royal Haskoning DV)

The aim of this section is to present an overview of the history of the larger region in order to eventually determine the significance of heritage sites identified in the study area, within the context of their historic, aesthetic, scientific and social value, rarity and representivity – see Section 3.2 and Appendix 1 for more information.

5.3 Regional overview

The cultural landscape qualities of the larger region essentially consist of two components. The first is a rural area in which the human occupation is made up of a limited pre-colonial element (Iron Age) as well as a much later colonial (farmer) component. The second component is an urban landscape dating to the colonial period and is linked to the rural colonial landscape.

5.2.1 Stone Age

Very little habitation of the highveld area took place during Stone Age times. Tools dating to the Early Stone Age period are mostly found in the vicinity of larger watercourses, e.g. the Vaal River, or in sheltered areas such as the Magaliesberg. During Middle Stone Age (MSA) times (c. 150 000 – 30 000 BP), people became more mobile, occupying areas formerly avoided. The MSA is a technological stage characterized by flakes and flake-blades with faceted platforms, produced from prepared cores, as distinct from the core tool-based ESA technology. Open sites were still preferred near watercourses.

Late Stone Age (LSA) people had even more advanced technology than the MSA people and therefore succeeded in occupying even more diverse habitats. Some sites are known to occur in the region. These vary from sealed (i.e. cave) sites, located to the south of the study area (Wadley &

Turner 1987), to open sites near the Vaal River. Also, for the first time we get evidence of people's activities derived from material other than stone tools. Ostrich eggshell beads, ground bone arrowheads, small bored stones and wood fragments with incised markings are traditionally linked with the LSA. The LSA people have also left us with a rich legacy of rock art, which is an expression of their complex social and spiritual beliefs.

5.2.2 Iron Age

Iron Age people started to settle in southern Africa c. AD 300, with one of the oldest known sites at Broederstroom south of Hartebeespoort Dam dating to AD 470. Having only had cereals (sorghum, millet) that need summer rainfall, Early Iron Age (EIA) people did not move outside this rainfall zone, and neither did they occupy the central interior highveld area. Because of their specific technology and economy, Iron Age people preferred to settle on the alluvial soils near rivers for agricultural purposes, but also for firewood and water.

The occupation of the larger geographical area (including the study area) did not start much before the 1500s. By the 16th century things changed, with the climate becoming warmer and wetter, creating condition that allowed Late Iron Age (LIA) farmers to occupy areas previously unsuitable, for example the treeless plains of the Free State and the Mpumalanga highveld.

This wet period came to a sudden end sometime between 1800 and 1820 by a major drought lasting 3 to 5 years. The drought must have caused an agricultural collapse on a large, subcontinent scale.

This was also a period of great military tension. Military pressure from Zululand spilled onto the highveld by at least 1821. Various marauding groups of displaced Sotho-Tswana moved across the plateau in the 1820s. Mzilikazi raided the plateau extensively between 1825 and 1837. The Boers trekked into this area in the 1830s. And throughout this time settled communities of Tswana people also attacked each other.

As a result of this troubled period, Sotho-Tswana people concentrated into large towns for defensive purposes. Because of the lack of trees they built their settlements in stone. These stone-walled villages were almost always located near cultivatable soil and a source of water. Such sites are known to occur near Kriel (e.g. Pelsner et al 2006) and to the south (Taylor 1979).

5.2.3 Historic period

White settlers moved into the area during the first half of the 19th century. They were largely self-sufficient, basing their survival on cattle/sheep farming and hunting. Pretoria was started in 1850, but Johannesburg only dates to the 1880s, after the discovery of gold.

When coal had to be transported from the coal fields of the Witbank to the Witwatersrand area, a need for a direct railway link with the industries in the Rand area arose. In 1906, a railway line was opened between Apex and Witbank, crossing Witklip to where coal was located on the farm Brakfontein of Mr NC Erasmus. In 1907 the surveyor Ewan Curry, instructed by Frank Campbell Dumat, surveyed the layout for the town on the farm Witklip. The name Delmas refers to a small farm (in southern French dialect: mas) of Dumat's grandfather in France.

The Delmas district was proclaimed in 1954 and used to be mainly agricultural. As early as 1909 the Delmas Estate and Colliery Co began mining coal in the district. In addition to good roads, the Johannesburg-Witbank railway line and freeway traverses the district and the Springs-Ermelo line

runs along the southern boundary. Cultivated holdings were established at Eloff and Sundra. Apart from coal, silica is also mined in the district.

5.3 Identified sites

The following cultural heritage resources are known to exist or are expected to exist in the study area:

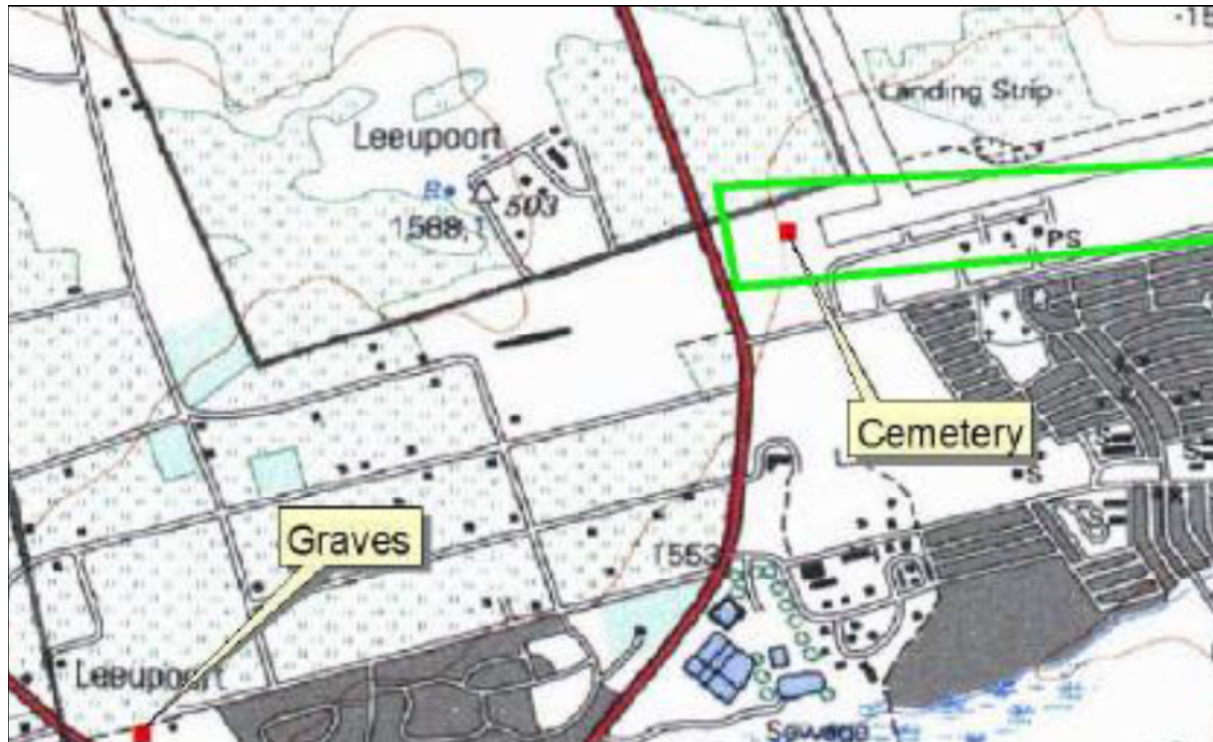


Fig. 4. Location of the study area (green outline) and known sites of heritage significance

5.3.1 Stone Age

- No sites, features or objects dating to the Stone Age were found in any of the three alternative routes for the proposed power line or the substation sites.

5.3.2 Iron Age

- No sites features or objects dating to the Iron Age were found in any of the three alternative routes for the proposed power line or the substation sites.

5.3.3 Historic period

- A large cemetery that is still in use occurs close to the western end of the proposed power line, but well outside the corridor.

6. SITE SIGNIFICANCE AND ASSESSMENT

6.1 Heritage assessment criteria and grading

The NHRA stipulates the assessment criteria and grading of archaeological sites. The following categories are distinguished in Section 7 of the Act:

- **Grade I:** Heritage resources with qualities so exceptional that they are of special national significance;
- **Grade II:** Heritage resources which, although forming part of the national estate, can be considered to have special qualities which make them significant within the context of a province or a region; and
- **Grade III:** Other heritage resources worthy of conservation, on a local authority level.

The occurrence of sites with a Grade I significance will demand that the development activities be drastically altered in order to retain these sites in their original state. For Grade II and Grade III sites, the applicable of mitigation measures would allow the development activities to continue.

6.2 Statement of significance

In terms of Section 7 of the NHRA, all the sites currently known or which are expected to occur in the study area are evaluated to have Grade III significance.

6.3 Impact assessment

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

- As no sites, features or objects of cultural heritage significance have been identified in the study area, there would be no impact as a result of the proposed development.

7. CONCLUSIONS

The aim of the survey was to locate, identify, evaluate and document sites, objects and structures of cultural significance found within the area in which it is proposed to develop a 44kV power line and substation.

The landscape qualities of the area which is very flat, with little resources such as hills, outcrops and open water that usually drew people to settle in a region and as a result it was very sparsely occupied in the past.

- As no sites, features or objects of cultural significance are known to exist in the study area, there would be no impact as a result of the proposed development.

Therefore, from a heritage point of view we recommend that the proposed development can continue on condition of acceptance of the above mitigation measure. We also recommend that if archaeological sites or graves are exposed during development activities, it should immediately be reported to a heritage consultant so that an investigation and evaluation of the finds can be made.

8. REFERENCES

8.1 Data bases

Chief Surveyor General

Environmental Potential Atlas, Department of Environmental Affairs and Tourism.

Heritage Atlas Database, Pretoria.

National Archives of South Africa

8.2 Literature

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

De Jong, R. 2003. *Heritage impact assessment report: site for incinerator, remainder of portion 1 of farm Weltevreden 2271R, Dryden station, Mpumalanga*. Cultmatrix: Pretoria.

Mason, R. 1968. *Prehistory of the Transvaal*. Johannesburg: Witwatersrand University Press.

Nkangala District Municipality 2004. Formalization of Cultural and Historical sites. Pretoria: BKS (Pty) Ltd and Cultmatrix cc.

Pelser, A., Van Schalkwyk, J.A., Teichert, F. & Masiteng, I. 2007. The archaeological investigation of an Iron Age site on the farm Rietfontein 1011S, Emalahleni district, Mpumalanga Province. *NCHM Research Journal* 2:1-24.

Praagh, L.V. (ed.) 1906. *The Transvaal and its mines*. London: Praagh & Lloyd.

Raper, P.E. 2004. *South African place names*. Johannesburg: Jonathan Ball Publishers.

Van Schalkwyk, J.A. 2009. *Heritage impact assessment report for the proposed construction of a 44kV substation and power line, Delmas North, Mpumalanga Province*. Unpublished report 2009/JvS/033.

Taylor, M.O.V. 1979. Wildebeestfontein: a Late Iron Age site in the southeastern Transvaal. In Van der Merwe, N.J. & Huffman, T.N. (eds.) 1979. *Iron Age studies in Southern Africa*. Goodwin Series No. 3. Cape Town: South African Archaeological Society. Pp. 120-132.

Wadley, L & Turner, G. 1987. Hope Hill shelter: a Later Stone Age site in southern Transvaal. *South African Journal of Science* 83(3):98-105.

8.3 Maps and aerial photographs

1: 50 000 Topocadastral maps: 2628BA

Google Earth

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

Significance

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

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

1. Historic value			
Is it important in the community, or pattern of history.			
Does it have a strong association or special association with the life or work of a person, group or organisation of importance in history.			
Does it have significance related to the history of slavery.			
2. Aesthetic value			
It is important in exhibiting particular aesthetic characteristics valued by the community or cultural group.			
3. Scientific value			
Does it have potential to yield information that will contribute to an understanding of natural or cultural heritage.			
4. Social value			
Does it have a strong or special association with a particular community or cultural group for social, cultural or spiritual reasons.			
5. Rarity			
Does it possess uncommon, rare or endangered aspects of natural or cultural heritage.			
6. Representatively			
It is important in demonstrating the principal characteristics of a particular class of natural or cultural places or objects.			
Importance in demonstrating the principal characteristics of a range of landscapes or environments, the attributes of which identify it as being characteristic of its class.			
Importance in demonstrating the principal characteristics of human activities (including way of life, philosophy, custom, process, land-use, function, design or technique) in the environment of the nation, province, region or locality.			
7. Spheres of significance			
	High	Medium	Low
International			
National			
Provincial			
Regional			
Local			
Specific community			
8. Significance rating of feature			
1	Low		
2	Medium		
3	High		

Significance of impact:

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

Certainty of prediction:

Definite: More than 90% sure of a particular fact. Substantial supportive data to verify assessment

Probable: More than 70% sure of a particular fact or the likelihood of that impact occurring

Possible: Only more than 40% sure of a particular fact, or of the likelihood of an impact occurring

Unsure: Less than 40% sure of a particular fact, or the likelihood of an impact occurring

Recommended management action:

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

1=no further investigation/actions necessary

2=controlled sampling and or mapping of the site necessary

3=preserve site if possible, otherwise extensive salvage excavation and/or mapping necessary

4=preserve site at all costs

Legal requirements:

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

APPENDIX 2. RELEVANT LEGISLATION

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

- (1) Subject to the provisions of section 8, the protection of archaeological and palaeontological sites and materials and meteorites is the responsibility of a provincial heritage resource authority: Provided that the protection of any wreck in the territorial waters and the maritime cultural zone shall be the responsibility of SAHRA.
- (2) Subject to the provision of subsection 8(a), all archaeological objects palaeontological material and meteorites are the property of the state. The responsible heritage authority must on behalf of the state at its discretion ensure that such objects are lodged with a museum or the public institution that has a collection policy acceptable to the heritage resource authority and may in so doing establish such terms and conditions as it sees fit for the conservation of such objects.
- (3) Any person who discovers archaeological or palaeontological objects or materials or meteorite in the course of the development or agricultural activity must immediately report the find to the responsible heritage resource authority or to the nearest local authority offices or museum, which must immediately notify such heritage resource authority.
- (4) No person may without a permit issued by the responsible heritage resource authority
 - a) destroy, damage, excavate, alter, deface or otherwise disturb any archaeological or palaeontological site or any meteorite;
 - b) destroy, damage, excavate, remove from its original position, collect or own any archaeological or palaeontological material or object or any meteorite;
 - c) trade in, sell for private gain, export or attempt to export from the Republic any category of archaeological or palaeontological material or object or any meteorite; or
 - d) bring onto or use at an archaeological or palaeontological site any excavation equipment or any equipment which assist in the detection or recovery of metals or archaeological or palaeontological material or objects, or such equipment's for the recovery of meteorites.

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

- (1) Where it is not the responsibility of any other authority, SAHRA must conserve and generally care for burial grounds and graves protected in terms of this section and it may make such conservation as it sees fit.
- (2) SAHRA must identify and record the graves of victims of conflicts and any other graves which it deems to be of cultural significance and may erect memorials associated with the graves referred to subsection (1), and must maintain such memorials.
- (3) No person may without a permit issued by SAHRA or provincial heritage resource authority
 - a) b) 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 formal cemetery administered by a local authority; or
 - c) bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) any excavation equipment or any equipment which assist in the detection or recovery of metals.

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

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

Grade I: Heritage resources with qualities so exceptional that they are of special national significance;

Grade II: Heritage resource which, although forming part of the national estate can be considered to have special qualities which make them significant within the context of the province or a region, and

Grade III: Other heritage resources worthy of conservation and which prescribes heritage resource assessment criteria consistent with the criteria set out in section 3(3), which must be used by a heritage resources authority or a local authority to assess the intrinsic, comparative and contextual significance of a heritage resource and a relative benefits and costs of its protection so that the appropriate level of grading of the resource and the consequent responsibility its management may be allocated in terms of section 8.

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

- (1) Heritage resource authorities and local authorities must, wherever appropriate coordinate and promote the presentation and use places of cultural significance and heritage resources which form part of the national estate and for which they are responsible in terms of section 5 for public enjoyment, education, research and tourism, including-
 - a) The erection of explanation plaques and interpretive facilities, including interpretive centers and visitors facilities;
 - b) The training and provision of guides
 - c) The amounting of exhibitions;
 - d) The erections of memorials; and
 - e) Any other means for the effective presentation of the national estate
- (2) Where heritage resource which is formally protected in terms of Part 1 of this Chapter is to be presented, the person wishing to undertake must presentation at least 60 days prior to institution of interpretive measures or manufacture of associated material consult with the heritage resource authority which is responsible for the protection of such heritage resource regarding the contents of interpretive material or programmes.
- (3) A person may only erect a plaque or other permanent display or structure associated with such presentation in the vicinity of a place protected in terms of this Act in consultation with the heritage resources authority responsible for the protection of the place.