

NKANTOLO ACCESS ROAD UPGRADE PROJECT, MBIZANA LOCAL MUNICIPALITY, ALFRED NZO DISTRICT MUNICIPALITY, EASTERN CAPE PROVINCE, SOUTH AFRICA

Archaeological Impact Assessment Report

July 2013

Prepared for: Department of Roads and Public Works
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Compiled by: N. Kruger



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ARCHAEOLOGICAL IMPACT ASSESSMENT (AIA) OF DEMARCATED SURFACE AREAS FOR THE UPGRADE OF AN ACCESS ROAD IN NKANTOLO, MBIZANA LOCAL MUNICIPALITY, ALFRED NZO DISTRICT MUNICIPALITY, EASTERN CAPE PROVINCE, SOUTH AFRICA

July 2013

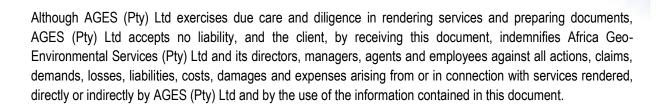
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Conducted on behalf of:

Department of Roads and Public Works AGES Eastern Cape

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DECLARATION

- I, Nelius Le Roux Kruger, declare that -
 - I act as the independent specialist;
 - I am conducting any work and activity relating to the Nkantolo Road Upgrade Project in an objective manner, even if this results in views and findings that are not favourable to the client;
 - I declare that there are no circumstances that may compromise my objectivity in performing such work;
 - I have expertise in conducting the specialist report relevant to this application, including knowledge of the relevant Heritage Legislation (National Heritage Resources Act no. 25 of 1999, Human Tissue Act 65 of 1983 as amended, Removal of Graves and Dead Bodies Ordinance no. 7 of 1925, Excavations Ordinance no. 12 of 1980), the Minimum Standards: Archaeological and Palaeontological Components of Impact Assessment (SAHRA and the CRM section of ASAPA), regulations and any guidelines that have relevance to the proposed activity;
 - I will comply with the Act, regulations and all other applicable legislation;
 - I have not, and will not engage in, conflicting interests in the undertaking of the activity;
 - I undertake to disclose to the applicant and the competent authority all material information in my
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 document to be prepared by myself for submission to the competent authority;
 - All the particulars furnished by me in this declaration are true and correct.

SIGNATURE OF SPECIALIST

Company: AGES Gauteng (Pty) Ltd.

Date: 16 July 2013





NOTATIONS AND TERMS

Absolute dating:

Absolute dating provides specific dates or range of dates expressed in years.

Archaeology:

The study of the human past through its material remains.

Archaeological record:

The archaeological record minimally includes all the material remains documented by archaeologists. More comprehensive definitions also include the record of culture history and everything written about the past by archaeologists.

Artefact:

Entities whose characteristics result or partially result from human activity. The shape and other characteristics of the artifact are not altered by removal of the surroundings in which they are discovered. In the southern African context examples of artefacts include potsherds, iron objects, stone tools, beads and hut remains.

Assemblage:

A group of artefacts recurring together at a particular time and place, and representing the sum of human activities.

¹⁴C or radiocarbon dating:

The ¹⁴C method determines the absolute age of organic material by studying the radioactivity of carbon. It is reliable for objects not older 70 000 years by means of isotopic enrichment. The method becomes increasingly inaccurate for samples younger than ±250 years.

Ceramic Facies:

In terms of the cultural representation of ceramics, a facies is denoted by a specific branch of a larger ceramic tradition. A number of ceramic facies thus constitute a ceramic tradition.

Ceramic Tradition:

In terms of the cultural representation of ceramics, a series of ceramic units constitutes as ceramic tradition.

Context:

An artefact's context usually consists of its immediate *matrix*, its *provenience* and its *association* with other artefacts. When found in *primary context*, the original artefact or structure was undisturbed by natural or human factors until excavation and if in *secondary context*, disturbance or displacement by later ecological action or human activities occurred.

Culture:

A contested term, "culture" could minimally be defined as the learned and shared things that people have, do and think.

Cultural Heritage Resource:

The broad generic term *Cultural Heritage Resources* refers to any physical and spiritual property associated with past and present human use or occupation of the environment, cultural activities and history. The term includes sites, structures, places, natural features and material of palaeontological, archaeological, historical, aesthetic, scientific, architectural, religious, symbolic or traditional importance to specific individuals or groups, traditional systems of cultural practice, belief or social interaction.

Cultural landscape:

A cultural landscape refers to a distinctive geographic area with cultural significance.

Cultural Resource Management (CRM):

A system of measures for safeguarding the archaeological heritage of a given area, generally applied within the framework of legislation designed to safeguard the past.

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Non artifactual material remains that has cultural relevance which provides information about past human activities. Examples would include remains or evidence of domesticated animals or plant species.

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Excavation:

The principal method of data acquisition in archaeology, involving the systematic uncovering of archaeological remains through the removal of the deposits of soil and the other material covering and accompanying it.

Feature:

Non-portable artifacts, in other words artifacts that cannot be removed from their surroundings without destroying or altering their original form. Hearths, roads, and storage pits are examples of archaeological features

GIS

Geographic Information Systems are computer software that allows layering of various types of data to produce complex maps; useful for predicting site location and for representing the analysis of collected data within sites and across regions.

Historical archaeology:

Primarily that aspect of archaeology which is complementary to history based on the study of written sources. In the South African context it concerns the recovery and interpretation of relics left in the ground in the course of Europe's discovery of South Africa, as well as the movements of the indigenous groups during, and after the "Great Scattering" of Bantu-speaking groups – known as the *mfecane* or *difaqane*.

Impact: A description of the effect of an aspect of the development on a specified component of the biophysical, social or economic environment within a defined time and space.

Iron Age

Also known as "Farmer Period", the "Iron Age" is an archaeological term used to define a period associated with domesticated livestock and grains, metal working and ceramic manufacture.

Lithic:

Stone tools or waste from stone tool manufacturing found in on archaeological sites.

Management / Management Actions: Actions – including planning and design changes - that enhance benefits associated with a proposed development, or that avoid, mitigate, restore, rehabilitate or compensate for the negative impacts.

Matrix:

The material in which an artefact is situated (sediments such as sand, ashy soil, mud, water, etcetera). The matrix may be of natural origin or human-made.

Megalith:

A large stone, often found in association with others and forming an alignment or monument, such as large stone statues.

Midden:

Refuse that accumulates in a concentrated heap.

Microlith:

A small stone tool, typically knapped of flint or chert, usually about three centimetres long or less.

Monolith:

A geological feature such as a large rock, consisting of a single massive stone or rock, or a single piece of rock placed as, or within, a monument or site.

Oral Histories:

The historical narratives, stories and traditions passed from generation to generation by word of mouth.

Phase 1 CRM Assessment:

An Impact Assessment which identifies archaeological and heritage sites, assesses their significance and comments on the impact of a given development on the sites. Recommendations for site mitigation or conservation are also made during this phase.

Phase 2 CRM Study:

In-depth studies which could include major archaeological excavations, detailed site surveys and mapping / plans of sites, including historical / architectural structures and features. Alternatively, the sampling of sites by collecting material, small test pit excavations or auger sampling is required. Mitigation / Rescue involves planning the protection of significant sites or sampling through excavation or collection (in terms of a permit) at sites that may be lost as a result of a given development.

Phase 3 CRM Measure:

A Heritage Site Management Plan (for heritage conservation), is required in rare cases where the site is so important that development will not be allowed and sometimes developers are encouraged to enhance the value of the sites retained on their properties with appropriate interpretive material or displays.

Prehistoric archaeology:

That aspect of archaeology which concerns itself with the development of humans and their culture before the invention of writing. In South Africa, prehistoric archaeology comprises the study of the Early Stone Age, the Middle Stone Age and the greater part of the Later Stone Age and the Iron Age.

Probabilistic Sampling:

A sampling strategy that is not biased by any person's judgment or opinion. Also known as statistical sampling, it includes systematic, random and stratified sampling strategies.

Provenience

Provenience is the three-dimensional (horizontal and vertical) position in which artefacts are found. Fundamental to ascertaining the provenience of an artefact is association, the co-occurrence of an artefact with other archaeological remains; and superposition, the principle whereby artefacts in lower levels of a matrix were deposited before the artefacts found in the layers above them, and are therefore older.

Random Sampling:

A probabilistic sampling strategy whereby randomly selected sample blocks in an area are surveyed. These are fixed by drawing coordinates of the sample blocks from a table of random numbers.

Relative dating:

The process whereby the relative antiquity of sites and objects are determined by putting them in sequential order but not assigning specific dates.

Remote Sensing:

The small or large-scale acquisition of information of an object or phenomenon, by the use of either recording or real-time sensing device(s) that is not in physical or intimate contact with the object (such as by way of aircraft, spacecraft or satellite). Here, ground-based geophysical methods such as Ground Penetrating Radar and Magnetometry are often used for archaeological imaging.

Rock Art Research:

Rock art can be "decoded" in order to inform about cultural attributes of prehistoric societies, such as dress-code, hunting and food gathering, social behaviour, religious practice, gender issues and political issues.

Scoping Assessment: The process of determining the spatial and temporal boundaries (i.e. extent) and key issues to be addressed in an impact assessment. The main purpose is to focus the impact assessment on a manageable number of important questions on which decision making is expected to focus and to ensure that only key issues and reasonable alternatives are examined. The outcome of the scoping process is a Scoping Report that includes issues raised during the scoping process, appropriate responses and, where required, terms of reference for specialist involvement.

Sensitive:

Often refers to graves and burial sites although not necessarily a heritage place, as well as ideologically significant sites such as ritual / religious places. Sensitive may also refer to an entire landscape / area known for its significant heritage remains.

Site (Archaeological):

A distinct spatial clustering of artefacts, features, structures, and organic and environmental remains, as the residue of human activity. These include surface sites, caves and rock shelters, larger open-air sites, sealed sites (deposits) and river deposits. Common functions of archaeological sites include living or habitation sites, kill sites, ceremonial sites, burial sites, trading, guarry, and art sites,

Slag:

The material residue of smelting processes from metalworking.

Stone Age:

An archaeological term used to define a period of stone tool use and manufacture.

Stratigraphy:

This principle examines and describes the observable layers of sediments and the arrangement of strata in deposits

Stratified Sampling:

A probabilistic sampling strategy whereby a study area is divided into appropriate zones – often based on the probable location of archaeological areas, after which each zone is sampled at random.

Systematic Sampling:

A probabilistic sampling strategy whereby a grid of sample blocks is set up over the survey area and each of these blocks is equally spaced and searched.

Tradition:

Artefact types, assemblages of tools, architectural styles, economic practices or art styles that last longer than a phase and even a horizon are describe by the term *tradition*. A common example of this is the early Iron Age tradition of Southern Africa that originated ± 200 AD and came to an end at about 900 AD.

Trigger: A particular characteristic of either the receiving environment or the proposed project which indicates that there is likely to be an *issue* and/or potentially significant *impact* associated with that proposed development that may require specialist input. Legal requirements of existing and future legislation may also trigger the need for specialist involvement.

Tuyère:

A ceramic blow-tube used in the process of iron smelting / reduction.

LIST OF ABBREVIATIONS

Abbreviation	Description
ASAPA	Association for South African Professional Archaeologists
AIA	Archaeological Impact Assessment
BP	Before Present
BCE	Before Common Era
EIA	Early Iron Age (also Early Farmer Period)
EIA	Environmental Impact Assessment
EFP	Early Farmer Period (also Early Iron Age)
ESA	Earlier Stone Age
GIS	Geographic Information Systems
HIA	Heritage Impact Assessment
K2/Map	K2/Mapungubwe Period
LFP	Later Farmer Period (also Later Iron Age)
LIA	Later Iron Age (also Later Farmer Period)
LSA	Later Stone Age
MIA	Middle Iron Age (also Early later Farmer Period)
MRA	Mining Rights Application
MSA	Middle Stone Age
NHRA	National Heritage Resources Act No.25 of 1999, Section 35
SAHRA	South African Heritage Resources Association
YCE	Years before Common Era (Present)

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1 EXECUTIVE SUMMARY

This report details the results of an Archaeological Impact Assessment (AIA) study in the Nkantolo area, east of Kokstad in the Eastern Cape Province where the Department of Roads and Public Works is planning the upgrade of an access road in Nkantolo. The report includes background information on the area's archaeology, its representation in southern Africa, and the history of the larger area under investigation, survey methodology and results as well as heritage legislation and conservation policies. A copy of the report will be supplied to the South African Heritage Resources Agency (SAHRA) and recommendations contained in this document will be reviewed in order to consider the conservation priority of sites located in the area.

Limited academic archaeological and historical studies have been conducted in this section of the Eastern Cape. However, the area encompasses a rich and diverse archaeological landscape, representative of most phases of human and cultural development in southern Africa. A number of areas of archaeological and heritage potential were located during the AIA survey which focused around the route for the proposed access road.

Palaeontology:

Palaeontological remains in the form of silicified wood fragments were observed elsewhere in the landscape and it is recommended that such resources be avoided if exposed. It is also recommended that close monitoring of the general surroundings be done during construction, in order not to disturb undetected palaeontological remains. If such remains were to be encountered, a suitably qualified palaeontologist should be consulted in order to establish the significance, and provide management measures for such resources.

Historical Period Remains:

Nkantolo's history is closely intertwined with the lives of two prominent South Africans. The OR Tambo Garden of Remembrance, situated approximately 10km north of the village of Ludeke and south of the northern offset of the Nkantolo access road, is where prominent politician and humanitarian, Oliver Tambo was born in 1917 and where his sister, Gertrude, still lives. Also, the OR Tambo homestead, situated 2km south of the Garden of Remembrance at Mdikisweni, has been occupied continuously for the past sixty years and this is here where Oliver Tambo spent his childhood. The historical Ludeke Methodist Mission complex, constructed in early 1900s, is situated next to the Nkantolo access road north of the Ludeke Village. Tambo was educated at the Ludeke Methodist Mission School from 1924 to 1929, and it is also here where national legend, Nelson Mandela & Winnie Madikizela-Mandela's was married in 1958. Tambo's classroom, the Mission church as well as the graves of the first reverend and his spouse remain at the premises. These sites are of high historical value at all levels for their strong and special association with persons whose lives, works and activities have been significant within the history of the nation, province, region and community. In addition, the sites bear social, cultural, spiritual, symbolic, aesthetic and educational associations with the life of two prominent South Africans and are therefore of high heritage importance. The OR Tambo Memorial Garden and the Ludeke Mission Station occur in the general vicinity of the proposed road upgrade impact zone and impact on the sites, if any, is expected to be peripheral and of permanent duration where in essence, the impact might result the potential damage / loss of the sites. Since the sites are of major significance, it is recommended that any activities pertaining to the road upgrade development in the area be monitored in order to avoid any possible impact on the sites. The OR Tambo homestead is situated some distance away from the proposed road upgrade area and, as such the impact on the site by the proposed activity is considered to be none. Nonetheless, it is recommended that any activities pertaining to the road upgrade development that might occur near the homestead area be monitored in order to minimise possible impact on the site, cognisant of its major significance.

In addition to these nationally important sites, Historical Period remnants in the form of and old a Western style house as well as a Western style farmstead and buildings occur north of Ludeke, and in the Ntlamvukazi area respectively. The exact ages of the structures are not known but they probably date to the recent Historical Period. The sites might be of scientific importance since it may inform on regional architectural and social developments in the Nkantolo area. Further early Historical Period sites containing hut remains, cattle byre foundations and associated material culture occur in the Ntlamvukazi area. These sites are probably of limited scientific value due to their poor preservation but they might prove to be sensitive as human burials are likely to occur in association with these settlements. All of the Historical Period sites occur in the general vicinity of the proposed road upgrade impact zone and impact on the sites, if any, is expected to be peripheral and of permanent duration where in essence, the impact might result the potential damage / loss of the sites. It is recommended that any activities pertaining to the road upgrade development in the area be monitored in order to avoid any possible impact on the sites. However, should any of the structures be directly impacted on by development activities, it is recommended that said sites be recorded and that the larger cultural and social context of the structure be established by means of a desktop study. Any alteration of a structure will require a destruction permit from the relevant heritage resources authority (SAHRA).

Graves:

Thirteen separate burial grounds, containing a total of at least 31 individual graves were identified along proposed Nkantolo road upgrade project. The graves, either dressed with marble, stone and concrete structures or demarcated by soil mounds, occur alongside homesteads or in fields next to the road. These sites are of high heritage significance and require special management attention. It is primarily recommended that all activities pertaining to the road upgrade be conducted in such a way as to avoid impact on the graves. In addition, a conservation buffer zone of at least 20m around the graves, as well as the fencing off of all cemeteries and graves are recommended. However, should the graves or the proposed 20m buffer zone be inevitably impacted in any way by the planned activities, full grave relocations are recommended for these burial grounds. This measure should be undertaken by a qualified archaeologist, and in accordance with relevant legislation and subject to any local and regional provisions and laws and by-laws pertaining to human remains. A full social consultation process should occur in conjunction with the mitigation of cemeteries and burials. As burial locations in this area follow a general (and fairly common) pattern where graves occur within the context of homestead complexes, utmost care should be taken during construction in occupation areas, not to disturb previously undetected burials.

It is essential that cognisance be taken of the larger archaeological landscape of the area in order to avoid the destruction of previously undetected heritage sites. Here, care should be taken around rock faces and outcrops in the larger landscape, as rock art is known to occur on these outcrops. Water sources such as drainage lines and rivers should also be regarded as potentially sensitive in terms of possible Stone Age deposits. The possible existence of Historical Period resources deriving from the area's more recent history should also be considered. Graves and cemeteries generally occur within settlements, often around homesteads and utmost care should be taken not to disturb these high risk heritage resources as they involve complex intrinsic social and ritual attributes within the community. Generally, a careful watching brief monitoring process is recommended for all stages of the project, specifically around heritage sensitive areas i.e. historical period structures and graves. Should any subsurface palaeontological, archaeological or historical material be exposed during construction activities, all activities should be suspended and the archaeological specialist should be notified immediately

This report details the methodology, limitations and recommendations relevant to these heritage areas, as well

as areas of proposed development. It should be noted that mitigation measures are valid for the duration of the development process, and mitigation measures might have to be implemented on additional features of heritage importance not detected during this Phase 1 assessment (e.g. uncovered during the construction process).

2 BACKGROUND

2.1 Scope and Motivation

AGES was commissioned by Lumko Makonza Consulting Engineers on behalf of the Department of Roads and Public Works, for an Archaeological Impact Assessment (AIA) study of demarcated surface areas in the Nkantolo area, east of Kokstad in the Eastern Cape Province where the Nkantolo Road Upgrade Project is planned. The rationale of the AIA study was to determine the presence of heritage resources such as archaeological and historical sites and features, graves and places of religious and cultural significance; to consider the impact of the proposed project on such heritage resources, and to submit appropriate recommendations with regard to the cultural resources management measures that may be required at affected sites / features.

2.2 Project Direction

AGES's expertise ensures that all projects be conducted to the highest international ethical and professional standards. As archaeological specialist for AGES, Mr Neels Kruger acted as field director for the project; responsible for the assimilation of all information, the compilation of the final AIA report and recommendations in terms of heritage resources on the demarcated project areas. Mr Kruger is an accredited archaeologist and Culture Resources Management (CRM) practitioner with the Association of South African Professional Archaeologists (ASAPA), a member of the Society for Africanist Archaeologists (SAFA) and the Pan African Archaeological Association (PAA) as well as a Master's Degree candidate in archaeology at the University of Pretoria.

2.3 Terms of Reference

Heritage specialist input in Environmental Impact Assessment (EIA) processes is essential to ensure that through the management of change, development conserves our heritage. Heritage specialist input in EIA processes can play a positive role in the development process by enriching an understanding of the past and its contribution to the present. It is also a legal requirement for certain categories of development defined in the relevant heritage legislation, which may have an impact on heritage resources. Thus, EIAs should, in all cases, include the assessment of Heritage Resources. The heritage component of the EIA is provided for in the **National Environmental Management Act, (Act 107 of 1998)** and endorsed by section 38 of the **National Heritage Resources Act (NHRA - Act 25 of 1999)**. In addition, the NHRA protects all structures and features older than 60 years (see Section 34), archaeological sites and material (see Section 35) and graves as well as burial sites (see Section 36). The objective of this legislation is to enable and to facilitate developers to employ measures to limit the potentially negative effects that the development could have on heritage resources.

Based hereon, this project functioned according to the following terms of reference for heritage specialist input:

- Provide a detailed description of all archaeological artefacts, structures (including graves) and settlements which may be affected, if any.
- Assess the nature and degree of significance of such resources within the area.
- Establish heritage informants/constraints to guide the development process through establishing thresholds of impact significance;
- Assess any possible impact on the archaeological and historical remains within the area emanating from the proposed development activities.
- Propose possible heritage management measures provided that such action is necessitated by the development.

Liaise and consult with the South African Heritage Resources Agency (SAHRA).

2.4 CRM: Legislation, Conservation and Heritage Management

The broad generic term *Cultural Heritage Resources* refers to any physical and spiritual property associated with past and present human use or occupation of the environment, cultural activities and history. The term includes sites, structures, places, natural features and material of palaeontological, archaeological, historical, aesthetic, scientific, architectural, religious, symbolic or traditional importance to specific individuals or groups, traditional systems of cultural practice, belief or social interaction.

2.4.1 Legislation regarding archaeology and heritage sites

The South African Heritage Resources Agency (SAHRA) and their provincial offices aim to conserve and control the management, research, alteration and destruction of cultural resources of South Africa. It is therefore vitally important to adhere to heritage resource legislation at all times.

- National Heritage Resources Act No 25 of 1999, section 35

According to the National Heritage Resources Act of 1999 a historical site is "any identifiable building or part thereof, marker, milestone, gravestone, landmark or tell older than 60 years." This clause is commonly known as the "60-years clause". Buildings are amongst the most enduring features of human occupation, and this definition therefore includes all buildings older than 60 years, modern architecture as well as ruins, fortifications and Iron Age settlements. "Tell" refers to the evidence of human existence which is no longer above ground level, such as building foundations and buried remains of settlements (including artefacts). The Act identifies heritage objects as:

- objects recovered from the soil or waters of South Africa including archaeological and palaeontological objects, meteorites and rare geological specimens
- visual art objects
- military objects
- numismatic objects
- objects of cultural and historical significance
- objects to which oral traditions are attached and which are associated with living heritage
- objects of scientific or technological interest
- any other prescribed category

With regards to activities and work on archaeological and heritage sites this Act states that:

"No person may alter or demolish any structure or part of a structure which is older than 60 years without a permit by the relevant provincial heritage resources authority." (34. [1] 1999:58)

and

"No person may, without a permit issued by the responsible heritage resources 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 and palaeontological material or objects, or use such equipment for the recovery of meteorites. (35. [4] 1999:58)."

And:

"No person may, without a permit issued by SAHRA or a provincial heritage resources agency-

- (a) destroy, damage, alter, exhume or remove from its original position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves;
- (b) destroy, damage, alter, exhume, remove from its original position or otherwise disturb any grave or burial ground older than 60 years which is situated outside a formal cemetery administered by a local authority;
- (c) bring onto or use at a burial ground or grave referred to in paragraph (a) or (b) and excavation equipment, or any equipment which assists in the detection or recovery of metals (36. [3] 1999:60)."
- Human Tissue Act of 1983 and Ordinance on the Removal of Graves and Dead Bodies of 1925

Graves 60 years or older are heritage resources and fall under the jurisdiction of both the National Heritage Resources Act and the Human Tissues Act of 1983. However, graves younger than 60 years are specifically protected by the Human Tissues Act (Act 65 of 1983) and the Ordinance on the Removal of Graves and Dead Bodies (Ordinance 7 of 1925) as well as any local and regional provisions, laws and by-laws. Such burial places also fall under the jurisdiction of the National Department of Health and the Provincial Health Departments. Approval for the exhumation and re-burial must be obtained from the relevant Provincial MEC as well as the relevant Local Authorities.

2.4.2 Background to HIA and AIA Studies

South Africa's unique and non-renewable archaeological and palaeontological heritage sites are 'Generally' protected in terms of the National Heritage Resources Act (Act No 25 of 1999, section 35) and may not be disturbed at all without a permit from the relevant heritage resources authority. Heritage sites are frequently threatened by development projects and both the environmental and heritage legislation require impact assessments (HIAs & AIAs) that identify all heritage resources in areas to be developed. Particularly, these assessments are required to make recommendations for protection or mitigation of the impact of the sites. HIAs and AIAs should be done by qualified professionals with adequate knowledge to (a) identify all heritage resources including archaeological and palaeontological sites that might occur in areas of developed and (b) make recommendations for protection or mitigation of the impact on the sites.

The National Heritage Resources Act (Act No. 25 of 1999, section 38) provides guidelines for Cultural Resources Management and prospective developments:

- **"38.** (1) Subject to the provisions of subsections (7), (8) and (9), any person who intends to undertake a development categorised as:
 - (a) the construction of a road, wall, powerline, pipeline, canal or other similar form of linear development or barrier exceeding 300m in length;
 - (b) the construction of a bridge or similar structure exceeding 50 m in length;
 - (c) any development or other activity which will change the character of a site:
 - (i) exceeding 5 000 m² in extent; or
 - (ii) involving three or more existing erven or subdivisions thereof; or
 - (iii) involving three or more erven or divisions thereof which have been consolidated within the past five years; or
 - (iv) the costs of which will exceed a sum set in terms of regulations by SAHRA or a provincial heritage resources authority;
 - (d) the re-zoning of a site exceeding 10 000 m² in extent; or
 - (e) any other category of development provided for in regulations by SAHRA or a provincial heritage resources authority,

must at the very earliest stages of initiating such a development, notify the responsible heritage resources authority and furnish it with details regarding the location, nature and extent of the proposed development."

And:

"The responsible heritage resources authority must specify the information to be provided in a report required in terms of subsection (2)(a): Provided that the following must be included:

- (a) The identification and mapping of all heritage resources in the area affected;
- (b) an assessment of the significance of such resources in terms of the heritage assessment criteria set out in section 6(2) or prescribed under section 7;
- (c) an assessment of the impact of the development on such heritage resources;
- (d) an evaluation of the impact of the development on heritage resources relative to the sustainable social and economic benefits to be derived from the development;
- (e) the results of consultation with communities affected by the proposed development and other interested parties regarding the impact of the development on heritage resources;
- (f) if heritage resources will be adversely affected by the proposed development, the consideration of alternatives; and
- (g) plans for mitigation of any adverse effects during and after the completion of the proposed development (38. [3] 1999:64)."

Consequently, section 35 of the Act requires Heritage Impact Assessments (HIAs) or Archaeological Impact Assessments (AIAs) to be done for such developments in order for all heritage resources, that is, all places or objects of aesthetics, architectural, historic, scientific, social, spiritual, linguistic or technological value or significance to be protected. Thus any assessment should make provision for the protection of all these heritage

components, including archaeology, shipwrecks, battlefields, graves, and structures older than 60 years, living heritage, historical settlements, landscapes, geological sites, palaeontological sites and objects.

3 REGIONAL CONTEXT

3.1 Area Location

The study area at Nkantolo lies within the jurisdictions of Bizana Local Municipality in the Alfred Nzo District, generally at \$30°45'47.02" E29°43'27.83". The project is located on the north western side of Mbizana Local Municipality in the Alfred Nzo District Municipality. It is approximately 32km northwest of Mbizana town travelling along the R61 towards Flagstaff and Kokstad. The study area can be accessed via the R61 on Trunk Road T112 for approximately 13km.

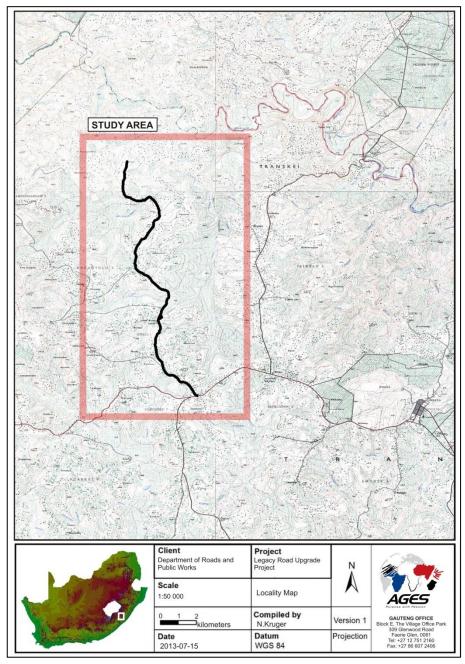


Figure 3-1: 1:50 00 Map representation of the Nkantolo Road Upgrade Project location (3029DC).

3.2 Area Description: Receiving Environment

The Nkantolo region is situated on the hills of the Eastern Cape grasslands south-east of the Drakensberg. The ecological landscape is defined as a combination of mixed grasslands and forest / scrub forest, typically dominated by mixed grassveld and forests at differing altitudes. The annual rainfall ranges between 1150 to over 1300mm per annum. The geology of the larger region is constituted by mudstones and sandstones of the Beaufort group and towards the coast, shales, mudstones and sandstones of the Ecca group, with exposures of dolerite intrusions mostly in the higher lying areas, are found. Soils in the area are moderate to deep and vary between sandy loams in the upper half to clayey loam in the downstream half. The Ludeke River traverses the study area from north to south but several other perennial and non-perennial streams and drainage lines, most of them originating in the surrounding hills, transect the area. The proposed road upgrade zone is situated within expanding rural residential areas and surface disturbances are prevalent in the study areas. These disturbance agents include agricultural activities such as ploughing and grazing and severe surface erosion and decomposition of low-lying geomorphological deposits.



Figure 3-2: General surroundings in the study area, looking west towards the OR Tambo Garden of Remembrance.

3.3 Site Description

The Nkantolo access route to be upgraded extends for approximately 15km from the village of Ludeke, northwards past the Ludeke Mission Station, the OR Tambo Garden of Remembrance across the Ntlamvukhazi River to the Qobo Health centre. The project involves the upgrade of the existing gravel access road, which includes one cutting directly north of the Ludeke Mission Station. The terrain consists predominantly of mountainous areas with flatter parcels of developable land one the plateaus, terraces and areas adjacent to the rivers. The vegetation mainly consists of grassland, with pockets of natural bush thicket around the watercourses emanating from the mountain slopes. A significant proportion of this area, particularly on the mountain slopes, has rock which is less than one metre below the natural ground level.

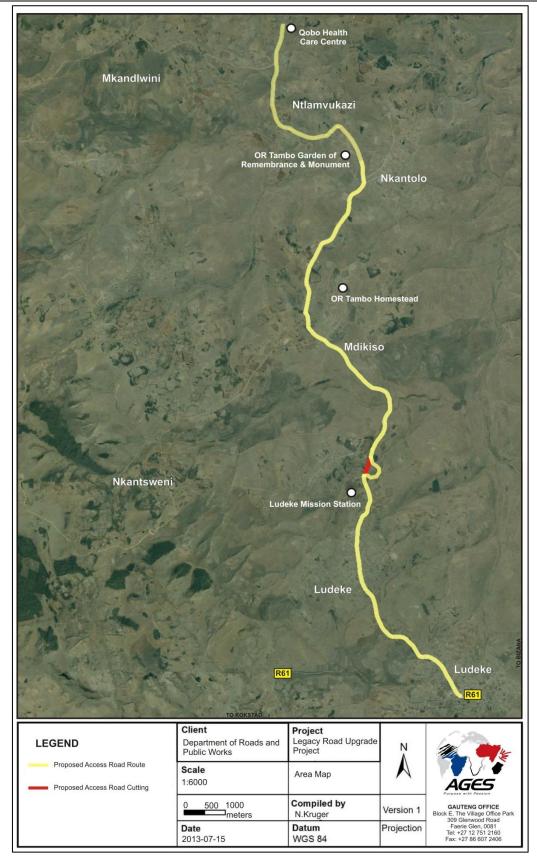


Figure 3-3: Aerial photograph of route of the proposed Nkantolo Road Upgrade Project (red) indicating areas of interest in the landscape.

4 METHOD OF ENQUIRY

4.1 Sources of Information

4.1.1 Desktop Study

A desktop study was prepared in order to contextualize the proposed project within a larger historical milieu. The study focused on relevant previous studies, archaeological and archival sources, Heritage Impact Assessment Reports, aerial photographs, historical maps and local histories, all pertaining to the larger landscape of this section of the Eastern Cape Province.

4.1.2 Aerial Representations and Survey

Aerial photography is often employed to locate and study archaeological sites, particularly where larger scale area surveys are performed. This method was applied to aid the pedestrian and vehicular survey at Nkantolo and surroundings, where contour lines of elevations, depressions, variation in vegetation, soil marks and landmarks were examined. Specific attention was given to shadow sites (shadows of walls or earthworks which are visible early or late in the day), crop mark sites (crop mark sites are visible because disturbances beneath crops cause variations in their height, vigour and type) and soil marks (e.g. differently coloured or textured soil (soil marks) might indicate ploughed-out burial mounds). Attention was also given to moisture differences, as prolonged dampening of soil as a result of precipitation frequently occurs over walls or embankments. By superimposing high frequency aerial photographs with images generated with Google Earth, potential sensitive areas were subsequently identified. These areas served as referenced points from where further pedestrian surveys were carried out.

4.1.3 Field Survey

Archaeological survey implies the systematic procedure of the identification of archaeological sites. An archaeological survey of areas to be impacted by the Nkantolo Road Upgrade Project was done by means of a systematic survey in accordance with standard archaeological practise by which heritage resources are observed and documented.



Figure 4-1: Captured screen contents of real time mobile aerial orientation representations employed during the field survey, current field location indicated by blue marker. Note graves visible as white dots (left) and the Ludeke Mission Station Complex (centre).

In order to sample surface areas systematically and to ensure a high probability of site recording the entire area to be impacted by the road upgrade was driven and field walked. Using a Garmin E-trex Legend GPS visible objects and structures of archaeological / heritage value were recorded and photographed with a Canon 450D Digital camera. Real time aerial orientation, by means of a mobile Google Earth application was also employed to investigate possible disturbed areas during the survey. As most archaeological material occur in single or multiple stratified layers beneath the soil surface, special attention was given to disturbances, both man-made such as roads and clearings, as well as those made by natural agents such as burrowing animals and erosion.

4.1.4 General Public Liaison

In single cases, consultation with local residents provided information on the general history of the area, possible locations of heritage resources and brief commentaries on the recent history of the area.

4.2 Limitations

4.2.1 Access

The survey area is accessed from the south via the R61 provincial road connecting to Kokstad. Access control is not applied to the area and the dirt road to be upgraded. No access constraints or restrictions were encountered during the field survey.

4.2.2 Visibility

The surrounding vegetation at Nkantolo is mostly comprised out of mixed grasslands and riverine bush. The general visibility at the time of the survey (March & July 2013) was high in most areas as a result of the domestic nature of the landscape around the road upgrade areas and also resulting from past surface disturbances. In one area at the proposed road cutting north of the Ludeke Mission, visibility was medium to low due to relatively dense surface cover in the region. In single cases during the survey sub-surface inspection was possible but where applied, this revealed no substantial archaeological deposits.



Figure 4-2: View of the southern offset of the Nkantolo road at the R61 intersection.



Figure 4-3: View of the study area north of Ludeke.



Figure 4-4: View of the study area, looking north.



Figure 4-5: View of the study area at the location of the proposed road cutting, north of the Ludeke Mission.



Figure 4-6: View of the study area at the OR Tambo Garden of Remembrance access road.



Figure 4-7: View of the OR Tambo Garden of Remembrance in the northern section of the study area.



Figure 4-8: The Nkantolo access road where it transects the Ntlamvukazi River.



Figure 4-9: View of the northern offset of the road to be upgraded at the Qobo Health Care Centre.

4.2.3 Limitations and Constraints

The pedestrian site survey primarily focused around areas tentatively identified as sensitive and of high heritage probability (i.e. those noted during the aerial survey) where the bridge will be constructed. Survey-time proved adequate but visibility proved to be a somewhat of a constraint along the floodplains of the Ludeke River.

Even though it might be assumed that survey findings are representative of the heritage landscape of the Nkantolo area, it should be stated that the possibility exists that individual sites could be missed due to the localised nature of some heritage remains as well as the possible presence of sub-surface archaeology. Thus, maintaining due cognisance of the integrity and accuracy of the archaeological survey, it should be stated that the heritage resources identified during the study do not necessarily represent *all* the heritage resources present on the property. The subterranean nature of some archaeological sites, dense vegetation cover and visibility constraints sometimes distort heritage representations and any additional heritage resources located during consequent development phases must be reported to the Heritage Resources Authority or an archaeological specialist.

5 RESULTS: ARCHAEOLOGICAL SURVEY

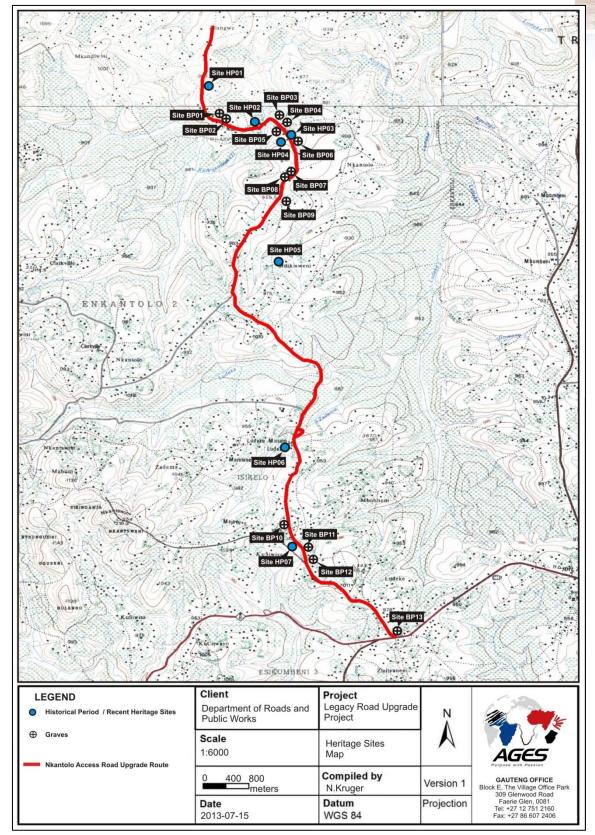


Figure 5-1: Map indicating the locations of archaeological and historical occurrences discussed in the text.

5.1 The Stone Age

No Stone Age material was identified in areas directly associated with the Nkantolo Road Upgrade Project area. It is highly likely that Earlier, Middle and possibly Later Stone Age scatters will occur in the area, specifically along drainage lines and water sources.

5.2 The Iron Age (Farmer Period)

No Iron Age Farmer Period material was identified in areas directly associated with the Nkantolo Road Upgrade Project area but it is highly likely that Later Iron Age Farmer Period settlements and remnants will occur in the area, specifically on higher ridges and hills, and along drainage lines.

5.3 Historical / Colonial Period and recent times

- Site HP01 & Site HP03: \$30.74693 E29.70333, \$30.75748 E29.72059

The remains of at least two small historical settlements / family unit dwellings were documented near other homesteads in the Ntlamvukazi area. The sites are commonly demarcated by:

- The remains of huts (foundation and wall structures).
- The indented foundations structures of cattle byres.
- Metal, glass and plastic objects.
- Historical period burials (Site BP06).



Figure 5-2: Remains of a round clay hut structure at Site HP01.

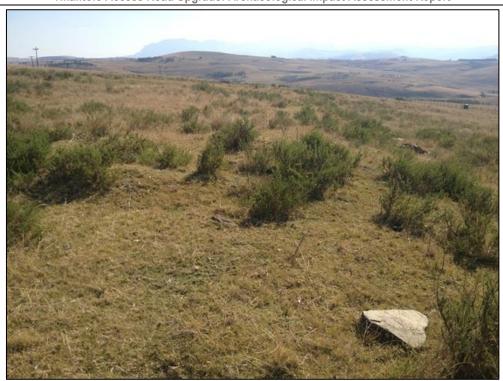


Figure 5-3: Hut foundation remains visible at Site HP03.

As with other similar remains in the landscape, a temporal context for the structures could not be ascertained. However, it might be assumed that the settlement remains date to the early-mid 20th century. It is highly likely that human burials will occur in association with the sites, especially at **Site HP03** where other burials (**Site BP06**) were documented.

- Site HP02: S30.75429 E29.71256

Historical houses and structures occur across the Nkantolo landscape. As such, a Western style farmstead with a number of poorly preserved structures occurs next to the Nkantolo road at Ntlamvukazi. The structures include the remains of a farm house, outbuildings, barns and possibly stables. It is evident that the structures have not been in use for a long time and the structure displays an architectural style possibly dating to the Historical Period. Even though the preservation of the site is poor, the buildings are of historical architectural value.



Figure 5-4: Deserted Western farmstead and outbuildings at Site HP02.



Figure 5-5: Aerial view of Site HP02 indicating the position of buildings and ruins at the site.

- Site HP04 S30.75651 E29.71848 (OR Tambo Garden of Remembrance)

The OR Tambo Garden of Remembrance is situated in the Nkantolo area, approximately 10km north of the village of Ludeke and the R61 main road to Kokstad. The Garden of Remembrance, overlooking a valley that runs through the Nkantolo Village, is where Oliver Tambo was born in 1917 and where his sister, Gertrude, still lives. The memorial garden was built in 2007 and features two rondavels, a bust of the politician, a memorial plaque and small information centre as well as the graves of Tambo's parents. For some years after its establishment, the remembrance centre fell into disrepair due to poor maintenance but the site was recently renovated as part of the O R Tambo Legacy Project by the Department of Arts and Culture.



Figure 5-6: Memorial plaque and information centre at the OR Tambo Garden of Remembrance (Photos courtesy of Mosh Masoga.



Figure 5-7: Site HP04: The OR Tambo Garden of Remembrance.



Figure 5-8: Memorial plaque, and the graves of the parents of Oliver Tambo at the OR Tambo Garden of Remembrance (Photos courtesy of Mosh Masoga).

- Site HP05 S30.78097 E29.72019 (OR Tambo Homestead)

The OR Tambo homestead is situated 2km south of the OR Tambo Garden of Remembrance at Mdikisweni. Here, Oliver Tambo spent his childhood at the homestead and herded livestock in the valleys of Nkantolo. The homestead has been occupied continuously for the past sixty years and has seen episodes of growth and demise depending on the family's needs and means. The site comprises an *indlunkulu* (a meeting place), a hexagonal thatched dwelling, a "4-corner" house that was the private residence of OR Tambo on his return from exile and two rondavels. The smaller of the two rondavels is the family shrine or *indluyamadlozi*, where the ancestors reside and are honoured. The cattle byre and small-stock pen is located immediately in front and down slope of the residential units. The cattle byre is a spiritually sacrosanct place also associated with the ancestors,

birth, life and death; and consequently subject to pollution and ritual taboos. The most recent intervention has been the building of a modern style bungalow dwelling to the rear of the historical homestead unit.



Figure 5-9: A rondavel structure at the OR Tambo Homestead (Site HP05)

Site HP06 S30.81600 E29.71949 (Ludeke Methodist Mission Station)

The historical Ludeke Methodist Mission complex, constructed in early 1900s, is situated next to the Nkantolo access road north of the Ludeke Village. The Mission Station has not only been used in different education and religious stages, but the site marks important events in the lives of two South African political giants. Oliver Tambo who was born in the area, was educated at the Ludeke Methodist Mission School from 1924 to 1929. The Mission Church was built by the Reverend Clark and it is here where national legend, Nelson Mandela & Winnie Madikizela-Mandela's was married in 1958 after Mandela divorced Evelyn Mandela in 1957. Reverenced Clark died in 1928 and he was buried along with his wife at the Mission. Tambo's classroom, the Mission church as well as the graves of Clarke and his spouse remain at the premises.



Figure 5-10: The Ludeke Mission Station at Site HP06.



Figure 5-11: Photograph taken at Ludeke Mission of the wedding of Nelson and Winnie Madela in 1958.

- Site HP07 S30.83492 E29.72112

Historical houses and structures occur across the Nkantolo landscape and a well preserved western structure stands north of Ludeke next to the Nkantolo access road on a small stand. Even though the site seems to have been deserted in recent years, the structure displays an architectural style possibly dating to the Historical Period and the building might be of historical architectural value.



Figure 5-12: Western style building at site HP07.

It likely that further historical period remains will be present in areas surrounding the Nkantolo Access Road project area.

5.4 Graves

Thirteen individual burial grounds, containing a total of at least 31 graves were identified along proposed Nkantolo Road Upgrade Project. In this area graves and cemeteries generally occur within settlements, often around homesteads and it is highly probable that these heritage resources might be encountered during construction, in addition to the sites noted below.

Site BP01 S30.75265 E29.70616

A single unmarked grave, dressed with a painted concrete structure occurs near a homestead in the Ntlamvukazi area.

- Site BP02 S30.75335 E29.70711

At least two unmarked graves, enclosed in a dilapidated fence structure occur in an open field at Ntlamvukazi. The graves are demarcated with soil mounds but the structures are heavily overgrown and not clearly visible.

- Site BP03 S30.75285 E29.71797

Another single unmarked grave, dressed with a painted concrete structure occurs in the field next to a cultivated crop field near Ntlamvukazi.

- Site BP04 S30.75400 E29.71921

Two marked graves, dressed with painted concrete structures occurs next to a cultivated crop field near Ntlamvukazi. The headstones bear illegible text painted in heavily faded black paint.

- Site BP05 S30.75490 E29.71848

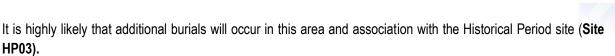
A small cemetery containing at least 2 graves occur on a slope close to the OR Tambo Garden of Remembrance Monument. One of the graves, marked with a headstone, is dressed with brick and concrete structures and the other burial is marked by a soil mound. The marked headstone contains the following text painted in faded black paint:

M Mtshe 1903 was (?) Weleke (?) 1934

- Site BP06 S30.75769 E29.72098

At least 2 burials were located near a historical settlement area (**Site HP03**) in the Nkantolo area. A large wooden fence and elaborate stone structure demarcate the first grave, and the other burial, marked with a headstone is dressed with an aged concrete structure. The marked headstone contains the following vague text printed in the concrete:

JD Tama BON 18 OCT (?) DED 19 JLY 1(?)80



- Site BP07 S30.76284 E29.72097

The site is a fenced informal burial place containing a double grave and two additional single graves in the Nkantolo area. The double grave is dressed with a marble tombstone with the following inscription:

MABUDE
In loving memory of ZENZELE GORDON
*: 27-08-1928
†: 04-06-2012
Time may fly, tears may dry
But precious memories of you will never die.

MABUDE
In loving memory of FRANCES NOMADINGA
*: 1937-04-09
†: 2009-11-06
Our success in life is deep rooted
Into our teachings

The single graves are dressed with brick and concrete tombstones. One of the tombstones bears the following hand-written inscription:

MABUDE-DETSHE

- Site BP08 S30.76343 E29.72028

A small informal cemetery containing 2 single graves occur near site BP02 in the Nkantolo area. The graves, dressed with marble tombstones occur in a small burial yard enclosed by a cat-iron fence. The grave tombstones bear the following inscriptions respectively:

A symbol of love to our mother and grandmother
PUMLA NGOXOLO DLAMINI
Born 03-10-1937
Died 22-06-2000
Rest in Peace

Z.S. MABUDE Born: 10-12-1932 Died: 20-07-1998

Usapho lwakho Lukhumbula Ukumela Inyaniso Nenkqibela kwakho Silas Lala Ngoxolo Seithama



A single grave occurs south of site BP02 on a small hill south of Nkantolo. The grave is dressed with a concrete tombstone but the structure is poorly preserved. An inscription on the concrete headstone is not legible.

- Site BP10 S30.83117 E29.71950

This site in the Ludeke area contains 5 marked graves. Two of the graves are dressed with marble tombstones, bearing engraved inscriptions, of which birth and death dates are not clear. The following inscriptions occur on the graves:

KHOLEKA NANDULA LALA NGOXOLO MAGUMLA

NOBEDODA NONDULA REST IN PEACE TSHUTSHA

The remaining 3 graves are dressed with brick and concrete tombstones. The headstones, painted white with faded funerary inscriptions, bears the following captions:

NOM....A(?) ZIYANDA BORN: 12:11:1998 DIED: 8:07:2002 REST IN PEACE

NONDULA THOBANI BORN 05:06:78 DIED 03:07:1991 REST IN PEACE

NONDULANONGO(?) BORN ...(?):01:1997 DIED 15:06:1997 REST IN PEACE

- Site BP11 S30.83619 E29.72300

Two graves occur at a homestead next to a house in Ludeke. The graves are dressed with marble tombstones bearing the following inscriptions:

MURIEL THETHIWE GODLIMPI BORN 04-01-1927 DIED 20-05-2006

AARON THAMSANQA GODLIMPO BORN (not clear) DIED (not clear)

- Site BP12 S30.83825 E29.72349

This site in Ludeke contains 5 fenced graves. The graves, 1 double grave and 3 single burials, are dressed with brick structures with marble headstones, bearing the following inscriptions:

IN LOVING MEMORY OF
OUR DEAR FATHER
E.H PATO
BORN 1879 DIED 1963
& MOTHER
M.J PATO
BORN 1886 DIED 1963
YOU ARE MISSED BY YOUR CHILDREN

PATO
IN LOVING MEMORY OF MY BELOVED HUSBAND
LOCKINGTON VULINDLELA PATO
BORN 1927 – DIED 1980
WE MISS YOU

IN LOVING MEMORY OF OUR BROTHER
SEXTON MSIMBITHI PATO
BORN 22.6.63
DIED 4.12.87
R.I.P

PATO
GOODWILL MZWANDILE
BORN 06.03.1947
DIED 06.02.2001
REMEMBERED MY MOTHER & CHILDREN
REST IN PEACE

- Site BP13 S30.85288 E29.73997

An informal cemetery containing 2 graves occurs at the T-junction of the Nkantolo road and the R62 main route to Kokstad. The burials are located within a fenced homestead and are not accessible. The graves are dressed with marble tombstones, and the inscription on one of the headstones could be documented as follows:

SIPHOSOXOLO MPANDE DIED 27-05-2010 BURIED 05-06-2010



Figure 5-13: A single burial at Site BP01.



Figure 5-14: Poorly visible double burial at Site BP02.



Figure 5-15: A single grave at Site BP03.



Figure 5-16: Two marked graves at Site BP04.



Figure 5-17: A single marked grave and an unmarked burial at Site BP05.



Figure 5-18: Two burials at Site BP06.



Figure 5-19: Double grave and single burial at Site BP07.



Figure 5-20: Burials in a small burial yard at Site BP08.



Figure 5-21: Single grave at Site BP09.



Figure 5-22: Burials at Site BP10.



Figure 5-23: Detail of two burials at Site BP11.



Figure 5-24: Fenced burials at Site BP12.



Figure 5-25: View of burials at Site BP13.

5.5 Other: Palaeontology

Silicified wood were documented elsewhere in the landscape, which is indicative of a palaeontological presence in the area. Even though no palaeontological resource were documented in the survey area, great caution should be taken not to disturb further undetected palaeontological remains in the general landscape

6 ARCHAEO-HISTORICAL CONTEXT

6.1 The archaeology of Southern Africa

Archaeology in southern Africa is typically divided into two main fields of study, the **Stone Age** and the **Iron Age** or **Farmer Period**.

The following table provides a concise outline of the chronological sequence of periods, events, cultural groups and material expressions in Southern African pre-history and history:

Period Epoch As		Associated cultural groups	Typical Material Expressions
Early Stone Age 2.5m – 250 000 YCE	Pleistocene	Early Hominins: Australopithecines Homo habilis Homo erectus	Typically large stone tools such as hand axes, choppers and cleavers.
Middle Stone Age 250 000 – 25 000 YCE	Pleistocene	First Homo sapiens species	Typically smaller stone tools such as scrapers, blades and points.
Late Stone Age 20 000 BC – present	Pleistocene / Holocene	Homo sapiens sapiens including San people	Typically small to minute stone tools such as arrow heads, points and bladelets.
Early Iron Age / Early Farmer Period 300 – 900 AD	Holocene	First Bantu-speaking groups	Typically distinct ceramics, bead ware, iron objects, grinding stones.

Middle Iron Age (Mapungubwe / K2) / early Later Farmer Period 900 – 1350 AD	Holocene	Bantu-speaking groups, ancestors of present-day groups	Typically distinct ceramics, bead ware and iron / gold / copper objects, trade goods and grinding stones.
Late Iron Age / Later Farmer Period 1400 AD -1850 AD	Holocene	Various Bantu-speaking groups including Venda, Thonga, Sotho-Tswana and Zulu	Distinct ceramics, grinding stones, iron objects, trade objects, remains of iron smelting activities including iron smelting furnace, iron slag and residue as well as iron ore.
Historical / Colonial Period ±1850 AD – present	Holocene	Various Bantu-speaking groups as well as European farmers, settlers and explorers	Remains of historical structures e.g. homesteads, missionary schools etc. as well as, glass, porcelain, metal and ceramics.

6.1.1 The Stone Ages

- The Earlier Stone Age (ESA)

Earlier Stone Age deposits typically occur on the flood-plains of perennial rivers and may date to between 2 million and 250 000 years ago. These ESA open sites sometimes contain stone tool scatters and manufacturing debris ranging from pebble tool choppers to core tools such as handaxes and cleavers. These stone tools were made by the earliest hominins. These groups seldom actively hunted and relied heavily on the opportunistic scavenging of meat from carnivore fill sites.

The Middle Stone Age (MSA)

The majority of Middle Stone Age (MSA) sites occur on flood plains and sometimes in caves and rock shelters. Sites usually consist of large concentrations of knapped stone flakes such as scrapers, points and blades and associated manufacturing debris. Tools may have been hafted but organic materials, such as those used in hafting, seldom remain preserved in the archaeological record. Limited drive-hunting activities are also associated with the MSA.

The Later Stone Age (LSA)

Sites dating to the Later Stone Age (LSA) are better preserved in rock shelters, although open sites with scatters of mainly stone tools can occur. Well-protected deposits in shelters allow for stable conditions that result in the preservation of organic materials such as wood, bone, hearths, ostrich eggshell beads and even bedding material. By using San (Bushman) ethnographic data a better understanding of this period is possible. South African rock art is also associated with the LSA.

6.1.2 The Iron Age (Farmer Period)

Early Iron Age (Early Farming Communities)

The Early Iron Age (also Early Farmer Period) marks the movement of Bantu speaking farming communities into South Africa at around 200 A.D. These groups were agro-pastoralists that settled in the vicinity of water in order to provide subsistence for their cattle and crops. Artefact evidence from Early Farmer Period sites is mostly found in the form of ceramic assemblages and the origins and archaeological identities of this period are largely based upon ceramic typologies and sequences, where diagnostic pottery assemblages can be used to infer group identities and to trace movements across the landscape. Early Farmer Period ceramic traditions are classified by some scholars into different "streams" or trends in pot types and decoration that, over time emerged in southern Africa. These "streams" are identified as the Kwale Branch (east), the Nkope Branch (central) and the Kalundu Branch (west). More specifically, in the northern regions of South Africa at least three settlement phases have been distinguished for prehistoric Bantu-speaking agropastoralists. The first phase of the Early Iron Age, known as Happy Rest (named after the site where the ceramics were first identified), is representative of the

Western Stream of migrations, and dates to AD 400 - AD 600. The second phase of Diamant is dated to AD 600 - AD 900 and was first recognized at the eponymous site of Diamant in the western Waterberg. The third phase, characterised by herringbone-decorated pottery of the Eiland tradition, is regarded as the final expression of the Early Iron Age (EIA) and occurs over large parts of the North West Province, Northern Province, Gauteng and Mpumalanga. This phase has been dated to about AD 900 - AD 1200. Early Farmer Period ceramics typically display features such as large and prominent inverted rims, large neck areas and fine elaborate decorations. The Early Iron Age continued up to the end of the first millennium AD.

- Middle Iron Age / K2 Mapungubwe Period (early Later Farming Communities)

The onset of the middle Iron Age dates back to ±900 AD, a period more commonly known as the Mapungubwe / K2 phase. These names refer to the well known archaeological sites that are today the pinnacle of South Africa's Iron Age heritage. The inhabitants of K2 and Mapungubwe, situated on the banks of the Limpopo, were agriculturalists and pastoralists and were engaged in extensive trade activities with local and foreign traders. Although the identity of this Bantu-speaking group remains a point of contestation, the Mapungubwe people were the first state-organized society southern Africa has known. A considerable amount of golden objects, ivory, beads (glass and gold), trade goods and clay figurines as well as large amounts of potsherds were found at these sites and also appear in sites dating back to this phase of the Iron Age. Ceramics of this tradition take the form of beakers with upright sides and decorations around the base (K2) and shallow-shouldered bowls with decorations as well as globular pots with long necks. (Mapungubwe). The site of Mapungubwe was deserted at around 1250 AD and this also marks the relative conclusion of this phase of the Iron Age.

- Later Iron Age (Later Farming Communities)

The late Iron Age of southern Africa marks the grouping of Bantu speaking groups into different cultural units. It also signals one of the most influential events of the second millennium AD in southern Africa, the difaqane. The difaqane (also known as "the scattering") brought about a dramatic and sudden ending to centuries of stable society in southern Africa. Reasons for this change was essentially the first penetration of the southern African interior by Portuguese traders, military conquests by various Bantu speaking groups primarily the ambitious Zulu King Shaka and the beginning of industrial developments in South Africa. Different cultural groups were scattered over large areas of the interior. These groups conveyed with them their customs that in the archaeological record manifest in ceramics, beads and other artefacts. This means that distinct pottery typologies can be found in the different late Iron Age groups of South Africa.

6.1.3 Historical and Colonial Times and Recent History:

The Historical period in southern Africa encompass the course of Europe's discovery of South Africa and the spreading of European settlements along the East Coast and subsequently into the interior. In addition, the formation stages of this period are marked by the large scale movements of various Bantu-speaking groups in the interior of South Africa, which profoundly influenced the course of European settlement. Finally, the final retreat of the San and Khoekhoen groups into their present-day living areas also occurred in the Historical period in southern Africa.

6.2 The Eastern Cape and Nkantolo: Specific Themes

The regions surrounding the Eastern Cape and the Lesotho frontier have been the subject of few archaeological research projects. However, the area displays a rich archaeological landscape with significant palaeontological, archaeological and historical sites.

6.2.1 Palaeontology

A large number of paleontological sites occur around the Eastern Cape and in areas towards Lesotho. Material found in and around Lesotho, the Eastern Cape Highlands and in the Karoo of South Africa is significant as it documents the late Triassic to early Jurassic transition, which is the period for the evolution of true dinosaurs, crocodile ancestors, bird ancestors and early mammals.

6.2.2 The Stone Age Period

No systematic Early and Middle Stone Age research has been undertaken in the Nkantolo area. Most Early Stone Age (ESA) sites (1.5 million years ago-250 000 years ago) in South Africa can probably be connected with the hominin species known as Homo erectus. Simply modified stones, hand axes, scraping tools, and other bifacial artifacts had a wide variety of purposes, including butchering animal carcasses, scraping hides, and digging for plant foods. Most South African archaeological sites from this period are the remains of open camps, often by the sides of rivers and lakes, although some are rock shelters, such as Montagu Cave in the Cape region. ESA sites are relatively rare in the Eastern Cape, occurring mostly in major river valleys. Generally EIA artefacts are not found *in situ* and are likely to be out of their primary context. ESA handaxes, cleavers and other stone tools have been documented mainly in inland areas such as in the districts of Middledrift, Kentani, Butterworth, Idutywa and Lusikiki to name a few.

The Middle Stone Age (MSA) (250 000-30 000 years ago) is characterised by stone tools typically made from quartzite, dolerite, or hornfels. Such sites occur as surface scatters at sites throughout the Eastern Cape Highlands along minor and major river courses. Specifically, these sites occur in exposed and disturbed areas such as quarries, erosion dongas, gravel farm roads and 'manmade' dams (Binneman *et al.* 2010). Data obtained from the MSA deposits in the Eastern, Western, and Southern Cape have provided detailed palaeoenvironmental records with long occupation sequences providing evidence of occupation for much of the Late Pleistocene. Open camps and rock overhangs were used for shelter. Day-to-day debris has survived to provide some evidence of early ways of life, although plant foods have rarely been preserved. MSA bands hunted medium-sized and large prey, including antelope and zebra, although they tended to avoid the largest and most dangerous animals, such as the elephant and the rhinoceros. They also ate seabirds and marine mammals that could be found along the shore and sometimes collected tortoises and ostrich eggs in large quantities.

The Later Stone Age (LSA) (40 000 years ago – present) is abundantly represented with LSA material found across the Eastern Cape. Basic toolmaking techniques began to undergo additional change about 40 000 years ago. Small finely worked stone implements known as microliths became more common, while the heavier scrapers and points of the Middle Stone Age appeared less frequently and archaeologists refer to this technological stage as the Late Stone Age. The numerous collections of stone tools from South African archaeological sites show a great degree of variation through time and across the subcontinent. Bands moved with the seasons as they followed game into higher lands in the spring and early summer months, when plant foods could also be found. When available, rock overhangs became shelters; otherwise, windbreaks were built. Shellfish, crayfish, seals, and seabirds were also important sources of food, as were fish caught on lines, with spears, in traps, and possibly with nets. Dating from this period are numerous engravings on rock surfaces, mostly on the interior plateau, and paintings on the walls of rock shelters in the mountainous regions, such as the Drakensberg and Cederberg ranges. The images were made over a period of at least 25 000 years and the paintings are closely associated with the work of medicine men, shamans who were involved in the well-being of

the band and often worked in a state of trance. Specific representations include depictions of trance dances, metaphors for trance such as death and flight, rainmaking, and control of the movement of antelope herds.

6.2.3 Hunters-gatherers, Herders and Shell Middens

Hunter-gatherer and herder sites occur widely in the Eastern Cape. It is sometimes difficult to distinguish between hunter-gatherer and herder sites, because the former may have acquired stock through theft or herder clientship and the latter largely relied on hunting and gathering to supplement pastoral resources. Both groups collected shellfish and used other food sources from the sea, and both groups hunted and gathered plant food. Excavations at sites indicate that shellfish and marine animals, and in particular seals, specifically formed a major part of their diet. The intensive utilization of shellfish manifests in the archaeological record through hundreds of shell middens (large piles of marine shell) dating to the terminal Pleistocene and Holocene that litter the coastal areas of southern Africa (see Figure 6-1 & Figure 6-2). These were campsites of San, Khoisan and Bantu-speakers who lived along the immediate coast. Human remains are frequently found in the middens, mixed with shell, other food remains and cultural material. A large number of shell middens were situated east of Coega River Mouth and numerous middens, ceramic pot sherds (from Later Stone Age Khoekhoen pastoralist origin - last 2 000 years) and other archaeological material, occur between the Coega and Sunday's River Mouths. These remains date mainly from Holocene Later Stone Age (last 10 000 years). Human remains have also been found in the dunes along the coast.



Figure 6-1: Large shell midden off the coast of southern Africa.

Mega-middens which accumulated in coastal and inland areas probably represent alternative seasonal food resources and the shellfish species from middens reflect the species available in the immediate vicinity and also provide information on the environment. Inland shell middens are also found in the Eastern Cape and these shell accumulations date to the last 3000 years. The existence of these features implies the use of alternative food sources as a result of the spread of pastoralists and Iron Age people (Deacon 1984b). Various researchers have observed that the occurrence of seasonally restricted food remains in archaeological deposits could be linked to historically known seasonal movements by the early Khoisan and Khoekhoen hunters and herders of the Cape. In other places, those Khoi who had lost their stock (to drought, disease or raiders), as well as San who had

none, may have subsisted mainly or entirely on seafood, but for the rest pastoralism, involving cattle and perhaps fat-tailed sheep, was the principal focus of subsistence, accompanied by a few crops in the fertile river valleys (Elphick 1977). This pattern of subsistence was continued - with different emphases and eventually on a larger scale - by those who succeeded the Khoi on this coast, the Cape Nguni, or Xhosa. By the 16th century, the Khoi peoples of the Wild Coast had been largely displaced or absorbed by Nguni speakers (Peires 1976).

6.2.4 A landscape of rock markings: Rock Art

The Eastern Cape and Lesotho regions are renowned for their rich rock art heritage. The majority of these rock markings can be associated with Later Stone Age hunter-gatherers, more specifically a group known locally as the Maloti San. This group was probably widespread in Lesotho and adjacent areas over the last few thousand years, but they may have retreated into mountainous areas year-round when farmers moved into the region. The rock art is found in different densities in various parts of Lesotho and the Eastern Cape, mostly in areas with appropriate rock shelters. This rock art images are composed of very finely drawn polychromatic images with narrow lines, small dots and gradated colouring. The images usually depict eland, rhebok, or humans in various states, activities, or postures. Occasionally, lions, other carnivores, other antelope, baboons, cattle, horses, horseback riders, snakes, and extraordinary creatures with human and animal features (known as therianthropes) are depicted. This imagery is associated with the religious, spiritual and healing activities of the Maloti San groups.

Some examples of non-hunter-gatherer rock art also occur in the area. Historical "farmer rock art" for example, is characterized by large figures in a single colour made with broad blocky lines and are uniformly filled with colour. This tradition is characterized by large geometric designs, usually in either red or white, or both. "Farmer" and "herder" rock art traditions are not as common as hunter-gatherer rock art but they are equally important as they are probably records of the historical period of the larger region during which many social and political transformations occurred.



Figure 6-2: Hunter-Gatherer Rock Art from southern Lesotho.

6.2.5 The Iron Age / Farmer Period

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

The earliest agricultural sites in KwaZulu-Natal date to between AD 400 and 550. All are situated close to sources of iron ore, and within 15 km of the coast. Current evidence suggests it may have been too dry further inland at this time for successful cultivation. From 650 onwards, however, climatic conditions improved and agriculturists expanded into the valleys of KwaZulu-Natal, where they settled close to rivers in savanna or bushveld environments. There is a considerable body of information available about these early agriculturists. Seed remains show that they cultivated finger millet, bulrush millet, sorghum and probably the African melon. It seems likely that they also planted African groundnuts and cowpeas, though direct evidence for these plants is lacking from the earlier periods. Faunal remains indicate that they kept sheep, cattle, goats, chickens and dogs, with cattle and sheep providing most of the meat. Men hunted, perhaps with dogs, but hunted animals made only a limited contribution to the diet in the region.

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

The beginnings of the Iron Age (Farmer Period) in southern Africa are associated with the arrival of a new Bantu speaking population group at around the third century AD. These newcomers introduced a new way of life into areas that were occupied by Later Stone Age hunter-gatherers and Khoekhoe herders. Distinctive features of the Iron Age are a settled village life, food production (agriculture and animal husbandry), metallurgy (the mining, smelting and working of iron, copper and gold) and the manufacture of pottery. Iron Age farming communities generally preferred to occupy river valleys within the eastern half of southern Africa owing to the summer-rainfall climate that was conducive for growing millet and sorghum. According to Huffman (2007) an eastern migration stream, known as the Chifumbaze Complex spread southwards from East Africa south into southern Africa during the period of about AD 200-300 where several KwaZulu-Natal and north-Eastern Cape sites were occupied. Evidence of numerous Early Iron Age (EIA) sites or material occurs in the area surrounding Mtatha and the Eastern Cape (Feely & Bell-Cross 2011). Evidence in the form of thick-walled well-decorated pot sherds are present along other parts of the Transkei coast as is evident from sites that were excavated at Mpame River Mouth (Cronin 1982) and just west of East London (Nongwaza 1994). Research in the adjacent Kei River Valley area indicates that the first mixed farmers were already settled in the Eastern Cape region between A.D. 600 -700 (Binneman 1994, Feely & Bell-Cross 2011). Thus far the closest documented and well-researched Early Iron Age site is located within the Great Kei River Valley. The site is situated some 200 m below the plateau and 60 km inland from the coast, within the borders of the Transkei, approximately 100 km up the coast towards Durban. There has is the past been some speculation that EIA populations may have spread well south of the Transkei into the Ciskei, possibly up to the Great Fish River (Binneman et al. 1992), however, no further research has been undertaken to confirm these statements. Two closer EIA sites have been documented, one to the south of East London (Cronin 1982) and the other is situated 12 km west of East London on the west bank of the Buffalo River (Nogwaza 1994). Thicker and decorated pottery sherds, kraals, possible remains of domesticated animals,

upper and lower grindstones and storage pits are associated for identifying Early Iron Age sites. The sites are generally large settlements, but the archaeological visibility may in most cases be difficult owing to the organic nature of the homesteads. Metal and iron implements are also associated with Early Iron Age communities.

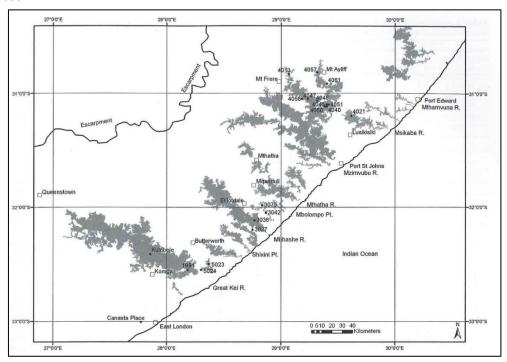


Figure 6-3: Early Iron Age farmer period sites in the Eastern Cape (after Feely & Bell-Cross 2011).

Relatively little research has been conducted on the archaeology of later farmer communities of the Eastern Cape and adjacent areas. According to research in adjacent parts of South Africa, there was little or no settlement in the dry high-altitude grasslands of the north-western parts of the Eastern Cape and Lesotho until after AD 1600 (e.g. Walton 1956; Maggs 1976; Hall 1990; Mitchell 2002). In many instances, Later Iron Age farmer communities moved from river valleys to the hilltops, such settlements have been formally recorded by the Albany Museum and cover a relatively extended area in comparison to the Early Iron Age settlement patterns (Binneman et al. 2010). As such, Later Iron Age communities gradually expanded into the grasslands of the KwaZulu-Natal and north Eastern Cape interior. An early phase of the Late Iron Age has been uncovered in KwaZulu-Natal which transpired in a ceramic style known as "Blackburn". This ceramic style represents a break with that of the Early Iron Age. Since there is a resemblance between Blackburn pottery and Nguni pottery, Huffman (1989) postulates that Blackburn reflects the migration of the Nguni to KwaZulu-Natal and later to the Transkei. Consequently, sites belonging to the final phase of the Late Iron Age can often be linked with historically known Nguni groups. The most southern Iron Age site, Kulubele, excavated by archaeologists from the Albany Museum during the 1990's, is situated along the banks of the Kei River in the Kei River Valley. The earliest date for the site is 1250 BP yielded numerous settlement areas, thick-walled pottery, animal bones, and most importantly chicken bones that illustrates contact between the first farming communities and European seafarers. Contact with the Cape Colony initially stimulated an already flexible and dynamic characteristic of the Cape Nguni political economy. When trade opportunities developed in the late 18th century, the Xhosa would exchange cattle (and permission for and guidance in hunting elephants) in return for copper, iron, beads (Peires 1981:95); they would then exchange these goods at a profit for cattle with their African neighbours to the east, bringing about a kind of speculation in cattle.

6.2.6 Later History: Reorganization, Colonial Contact and living heritage.

The oral and written history of the Eastern Cape pertaining to the last centuries is relatively abundant resulting from an assimilation of local folklore and Historical sources such as missionary accounts. The Historical period for this area can be divided into three periods of settlement, as described in oral traditions and local histories. First in the area were the pioneers, arriving between the nineteenth century and early twentieth century, depending on the region. They may have lived in caves at first (sometimes in association with San), or had compounds in places not occupied today. Second, the main population established villages on the high shoulders of the mountains and hills when areas were formally allocated to chiefs. This period lasted until the 1940s or 1950 when the chieftaincies were transformed by the paramount chief. The older villages in many areas were abandoned, were combined and/or moved to more accessible locations at lower elevations. Villages of this final phase are often still occupied today (Cain 2005).

At the time of white settlement of the Cape, Xhosa groups were living far inland, into the area between Bushman's River and the Kei River. Since around 1770, they had been confronted with the Afrikaner Trek Boers who approached from the west. Both the Boers and the Xhosa were stock-farmers. The competition for grazing land led first to quarrels between the two groups, and eventually it came to a number of wars known as the Grensoorlöe ("border wars" in Afrikaans). The politics of the colonial government attempted to enforce the separation of white and black settlement areas with the Fish River as the border. But the more the colony developed into a modern state with a strong military organization, the more the whites tended towards a policy of land annexing and the subjugation of the black population. In the middle of the 19th century, all the land formerly inhabited by Xhosa was in the hands of white settlers. With the founding of the South African Union in 1910, the British colony and the independent Boer Republics were united. Other types of Historical sites found in the Eastern Cape include early schools and Missions which are part of the cultural transformations between the mid-19th and mid-20th centuries. These sites are often valuable sources of oral histories and written documents and they present a later regional social development in the area where European expansion brought about dramatic changes in social and cultural land tenure on the Eastern Cape frontier.

The region was given nominal autonomy in 1963, under the "Separate Development" act and "full independence" followed in 1976 where after the area became known as Transkei (meaning: the land beyond the Kei River). The newly-formed Transkei state was not recognized internationally and remained diplomatically isolated and politically unstable. The area was reincorporated into South Africa's after 1994 when it became part of the Eastern Cape Province.

By the closing decades of the 18th century, South Africa had fallen into two broad regions: west and east. Colonial settlement dominated the west, including the winter rainfall region around the Cape of Good Hope, the coastal hinterland northward toward the present-day border with Namibia, and the dry lands of the interior. Trekboers took increasingly more land from the Khoekhoe and from remnant hunter-gatherer communities, who were killed, were forced into marginal areas, or became labourers tied to the farms of their new overlords. Indigenous farmers controlled both the coastal and valley lowlands and the Highveld of the interior in the east, where summer rainfall and good grazing made mixed farming economies possible.

A large group of British settlers arrived in the Eastern Cape in 1820; this, together with a high European birth rate and wasteful land usage, produced an acute land shortage, which was alleviated only when the British acquired more land through massive military intervention against Africans on the eastern frontier. Until the 1840s the

British vision of the colony did not include African citizens (referred to pejoratively by the British as "Kaffirs"), so, as Africans lost their land, they were expelled across the Great Fish River, the unilaterally proclaimed eastern border of the colony.

The first step in this process included attacks in 1811–12 by the British army on the Xhosa groups, the Gqunukhwebe and Ndlambe. An attack by the Rharhabe-Xhosa on Graham's Town in 1819 provided the pretext for the annexation of more African territory, to the Keiskamma River. Various Rharhabe-Xhosa groups were driven from their lands throughout the early 1830s. They counterattacked in December 1834, and Governor Benjamin D'Urban ordered a major invasion the following year, during which thousands of Rharhabe-Xhosa died. The British crossed the Great Kei River and ravaged territory of the Gcaleka-Xhosa as well; the Gcaleka chief, Hintsa, invited to hold discussions with British military officials, was held hostage and died trying to escape. The British colonial secretary, Lord Glenelg, who disapproved of D'Urban's policy, halted the seizure of all African land east of the Great Kei. D'Urban's initial attempt to rule conquered Africans with European magistrates and soldiers was overturned by Glenelg; instead, for a time, Africans east of the Keiskamma retained their autonomy and dealt with the colony through diplomatic agents.

However, after further fighting with the Rharhabe-Xhosa on the eastern frontier in 1846, Governor Colonel Harry Smith finally annexed, over the next two years, not only the region between the Great Fish and the Great Kei rivers (establishing British Kaffraria) but also a large area between the Orange and Vaal rivers, thus establishing the Orange River Sovereignty. These moves provoked further warfare in 1851–53 with the Xhosa (joined once more by many Khoe), with a few British politicians ineffectively trying to influence events.

The Pondo people, under Faku (and west of the Kei), had never clashed with the British and the British treated the amaPondo as an independent nation8. However, the Boers who trekked into Natal (now KwaZulu-Natal) to escape British rule in first the Western and then the Eastern Cape, found themselves under British sovereignty again. They sought new farms in Pondo territory and Faku turned to the British to help him resist the Boer invasion.

As the first of the amaPondo kings to rule a united nation, he was deemed by his own people and the British to have the authority to sign the Maitland Treaty of 1844. The treaty confirmed his claim to the land of the amaPondo (from the Drakensberg mountains in the west to the coast in the east, and from Mthatha in the south to the Umzimkhulu River in the north). It also guaranteed him protection from annexation of that land by the British. In addition, the colonial government promised to stand by him should he need to defend his own territory and gave him cattle valued at seventy-five pounds.

In return, he committed the amaPondo to avoiding conflict with the Cape Colony, handing over any criminal elements who tried to hide on his land, returning any stolen cattle to their rightful owners, protecting the whites living legitimately on his land as well as traders passing through his territory, maintaining peace amongst the various clans under his sovereignty, and supporting the Cape government with his forces if requested.

Between 1811 and 1858 colonial aggression deprived Africans of most of their land between the Sundays and Great Kei rivers and produced poverty and despair. From the mid-1850s British magistrates held political power in British Kaffraria, destroying the power of the Xhosa chiefs. Following a severe lung sickness epidemic among their cattle in 1854–56, the Xhosa killed many of their remaining cattle and in 1857–58 grew few crops in response to a millenarian prophecy that this would cause their ancestors to rise from the dead and destroy the whites. Many thousands of Xhosa starved to death, and large numbers of survivors were driven into the Cape

Colony to work. British Kaffraria fused with the Cape Colony in 1865, and thousands of Africans newly defined as Fingo resettled east of the Great Kei, thereby creating Fingoland. After Faku died in 1867, Mqikela refused to cooperate with the government. Accordingly, the Cape government curtailed his powers, dividing Pondoland, as it had become known, into two and threatening to elevate Nqwiliso, the son and successor to Ndamase, to paramountcy. In 1878, in order to ensure that he did indeed get the paramountcy, Nqwiliso sold land at Port St. Johns to the British for one thousand pounds. The British wanted the land to secure the port for their ships. On his accession to power Nqwiliso made it clear that, while recognising Mqikela's house as the Great House of the amaPondo, he intended to follow in Ndamase's footsteps and owe allegiance to no one, and maintain his position as an independent chief. That meant he would suffer no interference from Mqikela. In this declaration he was supported by the Government. Once again, dissent among the amaPondo gave the colonial power an opportunity to further erode traditional leadership. Colonial officialdom either ignored traditional authorities completely or allowed them to, at best, play a marginal role in governing their communities.

6.2.7 The Pondo People

The people of the Mbizana region are descendants of Nguni clans that migrated across the Umtamvuna River in the 1700s. They speak a dialect of Xhosa known as Pondo and the people themselves are called the amaPondo. In those early years, the amaPondo lived in small clans ruled by chieftains assisted by clan elders and councillors - who were usually members of the extended royal family. The affairs of the clans were regulated by customary law. Sons of chieftains other than the direct heir to the chieftaincy were free to start their own clans with reasonably loose bonds of loyalty to their fathers' clans. Lineages tended to die out after three or four generations. That, coupled with the fact that most amaPondo history is based on oral tradition, has made tracing lineages difficult. Interference, in terms of the arbitrary appointment of traditional leaders by both the British colonial government during the 1800s and the Nationalist government during the 20th Century, has complicated matters further.

Nkantolo is located in a typical rural Pondoland setting of rolling grassland interfluves between steeply incised streamlines and river courses. Nguni language-speakers, including the amaPondo, have traditionally lived in dispersed nuclear homesteads scattered across the landscape as resource availability prescribed. However, from the late 1950s, recommendations of the Tomlinson Commission (1954) were implemented, whereby many people were forcibly moved into villages (amalali) and the surrounding landscape was formally demarcated into crop-lands and grazing camps. This social engineering and land management was enforced by local magistrates and fed into the anger and wider frustrations and disenfranchisement that gave cause to the Pondo Uprising of 1960. Whilst some individuals have broken from this mould, amalali remain a characteristic feature of the modern rural settlement pattern. With the relaxation of controls over communal grazing camps and dedicated agricultural fields, fenced homestead precincts have become a necessity to protect vegetable gardens and maize fields from free-ranging cattle and small-stock.

6.2.8 Specific Themes: OR Tambo, son of Nkantolo

Oliver Reginald Tambo was born in Mbizana in eastern Pondoland in the Cape Province on 27 October 1917. He attended Ludeke Methodist School, and completed his primary education at Holy Cross Mission near Flagstaff. From there he transferred to St. Peter's Secondary School in Johannesburg. After completing his secondary education, Tambo went to the University College of Fort Hare in Alice [South Africa] and earned a Bachelor of Science degree in 1941. He remained at the University of Fort Hare to qualify for an honours degree but was expelled in 1942 during a student strike over demands for a democratically elected student representative

council. Following his expulsion he returned to St. Peter's in Johannesburg as a science and mathematics teacher.

In Johannesburg, Tambo became involved with a group of young leaders who advocated a more radical direction for the African National Congress (ANC). Working with Nelson Mandela, Walter Sisulu, Anton Lembede, Ashby Mda, William Ncomo, C.M. Majombozi, and others, Tambo became a founding member of the ANC Youth League (ANCYL) in 1944. He served as the Youth League's national secretary and was elected president of the Transvaal in 1948 and national vice-president in 1949.

Tambo moved quickly into a position of influence in the senior ANC and was elected to the Transvaal Executive of the ANC. In 1948, along with Walter Sisulu, he was elected to the National Executive Committee. Tambo was also a member of the committee that drew up the Programme of Action in 1948, which helped move the ANC from a passive organization charged with catering to the elite, to one which mobilized the people for massive campaigns of civil disobedience and non-violent resistance.

Tambo left teaching in 1947 and took up law. With the support of Walter Sisulu he was articled in a Johannesburg law firm. In 1952, he qualified as an attorney, and later that year he established a law practice with Nelson Mandela. Their legal practice championed underprivileged victims of apartheid laws.



Figure 6-4: Oliver Tambo at an ANC Conference.

Pressure and banning orders from the South African government forced Walter Sisulu to resign from ANC leadership leading to Tambo's appointment as acting secretary-general in 1954. Although banned himself, and restricted to Johannesburg, Tambo was allowed to retain his leadership position in the ANC. During this period he helped to guide the ANC through the Defiance Campaigns and the difficult campaigns against the Western area removal and the introduction of Bantu Education. In December 1956, he was arrested and charged with treason. He was among those discharged from the Treason Trial in late 1957. In 1958, with Albert Luthuli

isolated by bans restricting him to his Natal home, Tambo was elected to fill the newly created post of deputy president-general of the ANC. In 1959, Tambo was banned and was forbidden to attend gatherings for five years.

Following the Sharpeville Massacre of 1960, ANC leaders were convinced a banning of the ANC was imminent and made plans for Tambo to leave the country to serve as a foreign spokesman and to establish external missions and mobilize international support against the apartheid system. From the banning of the ANC and PAC (Pan Africanist Congress) in 1960 until the unbanning of the ANC in 1990, Tambo led the ANC's organization in exile, living in London, Tanzania, and Zimbabwe. In conjunction with Yusuf Dadoo he was instrumental in the establishment of the South African United Front (SAUF), which brought together the ANC external missions, the PAC (Pan Africanist Congress), the South African Indian Congress, and the South West African National Union (SWANU). Through successful lobbying the SAUF brought about the expulsion of South Africa from the Commonwealth in 1961. Following its initial success the SAUF broke up in July 1961.

Aided by various African governments, Tambo established ANC missions in Egypt, Ghana, Morocco, and London, England. Eventually the ANC operated missions in 27 countries by 1990. Countries hosting missions included all permanent members of the United Nations Security Council with the exception of China.

When the ANC moved to armed struggle and activated Umkhonto we Sizwe, Tambo was instrumental in securing the cooperation of numerous African governments in providing training and facilities for the ANC. Following Albert Luthuli's death in 1967, Tambo was named acting president-general. His appointment was approved by the Morogoro Conference in 1969.

Throughout the 1970s, Tambo's international prestige rose immensely as he traveled the world promoting opposition to the apartheid system. In 1985, Tambo was reelected ANC president at the Kabwe conference. In that role he served as head of the Politico-Military Council (PMC) of the ANC and as commander in chief of Umkhonto we Sizwe.

In 1989, Tambo suffered a stroke and spent several months in Stockholm recuperating. He returned to South Africa in 1991 and was elected national chairperson at the ANC's first legal national conference in July 1991. He was offered the position of chancellor at the University of Fort Hare in 1991. Oliver Tambo died on 24 April 1993. He is buried in Wattville in Benoni, east of Johannesburg.

7 RESULTS: STATEMENT OF SIGNIFICANCE AND IMPACT RATING

7.1 Heritage resources management and conservation

Archaeological sites, as previously defined in the National Heritage Resources Act (Act 25 of 1999) are places in the landscape where people have lived in the past – generally more than 60 years ago – and have left traces of their presence behind. In South Africa, archaeological sites include hominid fossil sites, places where people of the Earlier, Middle and Later Stone Age lived in open sites, river gravels, rock shelters and caves, Iron Age sites, graves, and a variety of historical sites and structures in rural areas, towns and cities. Palaeontological sites are those with fossil remains of plants and animals where people were not involved in the accumulation of the deposits. The basic principle of cultural heritage conservation is that archaeological and other heritage sites are valuable, scarce and *non-renewable*. Many such sites are unfortunately lost on a daily basis through development for housing, roads and infrastructure and once archaeological sites are damaged, they cannot be re-created as site integrity and authenticity is permanently lost. Archaeological sites have the

potential to contribute to our understanding of the history of the region and of our country and continent. By preserving links with our past, we may not be able to revive lost cultural traditions, but it enables us to appreciate the role they have played in the history of our country.

7.2 Categories of significance

Rating the significance of archaeological sites, and consequently grading the potential impact on the resources is linked to the significance of the site itself. The significance of an archaeological site is based on the amount of deposit, the integrity of the context, the kind of deposit and the potential to help answer present research questions. Historical structures are defined by Section 34 of the National Heritage Resources Act, 1999, while other historical and cultural significant sites, places and features, are generally determined by community preferences. The guidelines as provided by the NHRA (Act No. 25 of 1999) in Section 3, with special reference to subsection 3 are used when determining the cultural significance or other special value of archaeological or historical sites. In addition, ICOMOS (the Australian Committee of the International Council on Monuments and Sites) highlights four cultural attributes, which are valuable to any given culture:

Aesthetic value:

Aesthetic value includes aspects of sensory perception for which criteria can and should be stated. Such criteria include consideration of the form, scale, colour, texture and material of the fabric, the general atmosphere associated with the place and its uses and also the aesthetic values commonly assessed in the analysis of landscapes and townscape.

Historic value:

Historic value encompasses the history of aesthetics, science and society and therefore to a large extent underlies all of the attributes discussed here. Usually a place has historical value because of some kind of influence by an event, person, phase or activity.

- Scientific value:

The scientific or research value of a place will depend upon the importance of the data involved, on its rarity, quality and on the degree to which the place may contribute further substantial information.

Social value:

Social value includes the qualities for which a place has become a focus of spiritual, political, national or other cultural sentiment to a certain group.

It is important for heritage specialist input in the EIA process to take into account the heritage management structure set up by the NHR Act. It makes provision for a 3-tier system of management including the South Africa Heritage Resources Agency (SAHRA) at a national level, Provincial Heritage Resources Authorities (PHRAs) at a provincial and the local authority.

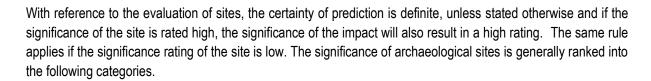
The Act makes provision for two types or forms of protection of heritage resources; i.e. formally protected and generally protected sites:

Formally protected sites:

- Grade 1 or national heritage sites, which are managed by National Heritage Resources Agencies
- Grade 2 or provincial heritage sites, which are managed by Provincial Heritage Resources Agencies
- Grade 3 of local heritage sites, managed by local authorities.

Generally protected sites:

- Human burials older than 60 years.
- Archaeological and palaeontological sites.
- Shipwrecks and associated remains older than 70 years.
- Structures older than 60 years.



Significance	Rating Action
No significance: sites that do not require mitigation.	None
Low significance: sites, which may require mitigation.	2a. Recording and documentation (Phase 1) of site; no further action required 2b. Controlled sampling (shovel test pits, augering), mapping and documentation (Phase 2 investigation); permit required for sampling and destruction
Medium significance: sites, which require mitigation.	Excavation of representative sample, C14 dating, mapping and documentation (Phase 2 investigation); permit required for sampling and destruction [including 2a & 2b]
High significance: sites, where disturbance should be avoided.	4a. Nomination for listing on Heritage Register (National, Provincial or Local) (Phase 2 & 3 investigation); site management plan; permit required if utilised for education or tourism
High significance: Graves and burial places	4b. Locate demonstrable descendants through social consulting; obtain permits from applicable legislation, ordinances and regional by-laws; exhumation and reinterment [including 2a, 2b & 3]

Furthermore, the significance of archaeological sites was based on six main criteria:

- Site integrity (i.e. primary vs. secondary context).
- Amount of deposit, range of features (e.g., stonewalling, stone tools and enclosures),
- Density of scatter (dispersed scatter),
- Social value,
- Uniqueness, and
- Potential to answer current and future research questions.

A fundamental aspect in assessing the significance and protection status of a heritage resource is often whether or not the sustainable social and economic benefits of a proposed development outweigh the conservation issues at stake. When, for whatever reason the protection of a heritage site is not deemed necessary or practical, its research potential must be assessed and mitigated in order to gain data / information, which would otherwise be lost.

7.3 Potential Impacts and Significance Ratings¹

The following section provides a background to the identification and assessment of possible impacts and alternatives, as well as a range of risk situations and scenarios commonly associated with heritage resources management. The section ultimately provides a guideline (Section 7.3.1, Section 7.3.2 & Section 7.3.3) for the

¹ Based on: W inter, S. & Baumann, N. 2005. Guideline for involving heritage specialists in EIA processes: Edition 1.

rating of impacts and recommendation of management actions for sites of heritage potential in the Nkantolo Road Upgrade Project area, as supplied in section 7.3.4.

7.3.1 General assessment of impacts on resources

Generally, the value and significance of archaeological and other heritage sites might be impacted on by any activity that would result immediately or in the future in the destruction, damage, excavation, alteration, removal or collection from its original position, any archaeological material or object (as indicated in the National Heritage Resources Act (No 25 of 1999)). Thus, the destructive impacts that are possible in terms of heritage resources would tend to be direct, once-off events occurring during the initial construction period. However, in the long run, the proximity of operations in any given area could result in secondary indirect impacts. The EIA process therefore specifies impact assessment criteria which can be utilised from the perspective of a heritage specialist study which elucidates the overall extent of impacts.

Significance of the heritage resource

This is a statement of the nature and degree of significance of the heritage resource being affected by the activity. From a heritage management perspective it is useful to distinguish between whether the significance is embedded in the physical fabric or in associations with events or persons or in the experience of a place; i.e. its visual and non-visual qualities. This statement is a primary informant to the nature and degree of significance of an impact and thus needs to be thoroughly considered. Consideration needs to be given to the significance of a heritage resource at different scales (i.e. sitespecific, local, regional, national or international) and the relationship between the heritage resource, its setting and its associations.

Nature of the impact

This is an assessment of the nature of the impact of the activity on a heritage resource, with some indication of its positive and/or negative effect/s. It is strongly informed by the statement of resource significance. In other words, the nature of the impact may be historical, aesthetic, social, scientific, linguistic or architectural, intrinsic, associational or contextual (visual or non-visual). In many cases, the nature of the impact will include more than one value.

Evtont

Here it should be indicated whether the impact will be experienced:

- On a site scale, i.e. extend only as far as the activity;
- Within the immediate context of a heritage resource;
- On a local scale, e.g. town or suburb
- On a metropolitan or regional scale; or
- On a national/international scale.

Duration

Here it should be indicated whether the lifespan of the impact will be:

- Short term, (needs to be defined in context)
- Medium term, (needs to be defined in context)
- Long term where the impact will persist indefinitely, possibly beyond the operational life of the activity, either because of natural processes or by human intervention: or
- Permanent where mitigation either by natural process or by human intervention will not occur in such a way or in such a time span that the impact can be considered transient.

Of relevance to the duration of an impact are the following considerations:

- Reversibility of the impact; and
- Renewability of the heritage resource.

Intensity

Here it should be established whether the impact should be indicated as:

- Low, where the impact affects the resource in such a way that its heritage value is not affected;
- Medium, where the affected resource is altered but its heritage value continues to exist albeit in a modified way; and
- High, where heritage value is altered to the extent that it will temporarily or permanently be damaged or destroyed.

Probability

This should describe the likelihood of the impact actually occurring indicated as:

- Improbable, where the possibility of the impact to materialize is very low either because of design or historic experience;
- Probable, where there is a distinct possibility that the impact will occur;
- Highly probable, where it is most likely that the impact will occur; or

- Definite, where the impact will definitely occur regardless of any mitigation measures

Confidence

This should relate to the level of confidence that the specialist has in establishing the nature and degree of impacts. It relates to the level and reliability of information, the nature and degree of consultation with I&AP's and the dynamic of the broader socio-political context.

- High, where the information is comprehensive and accurate, where there has been a high degree of consultation and the socio-political context is relatively stable.
- Medium, where the information is sufficient but is based mainly on secondary sources, where there has been a limited targeted consultation and socio-political context is fluid.
- Low, where the information is poor, a high degree of contestation is evident and there is a state of socio-political flux.

Impact Significance

The significance of impacts can be determined through a synthesis of the aspects produced in terms of the nature and degree of heritage significance and the nature, duration, intensity, extent, probability and confidence of impacts and can be described as:

- Low; where it would have a negligible effect on heritage and on the decision
- Medium, where it would have a moderate effect on heritage and should influence the decision.
- High, where it would have, or there would be a high risk of, a big effect on heritage. Impacts of high significance should have a major influence on the decision:
- Very high, where it would have, or there would be high risk of, an irreversible and possibly irreplaceable negative impact on heritage. Impacts of very high significance should be a central factor in decision-making.

7.3.2 Direct impact rating

Direct or primary effects on heritage resources occur at the same time and in the same space as the activity, e.g. loss of historical fabric through demolition work. **Indirect effects or secondary effects** on heritage resources occur later in time or at a different place from the causal activity, or as a result of a complex pathway, e.g. restriction of access to a heritage resource resulting in the gradual erosion of its significance, which is dependent on ritual patterns of access. The following table provides an outline as to the relationship between the significance of a heritage context, the intensity of development and the significance of heritage impacts to be expected.

	TYPE OF DEVELOPME	TYPE OF DEVELOPMENT								
HERITAGE CONTEXT	CATEGORY A	CATEGORY B	CATEGORY C	CATEGORY D						
CONTEXT 1 High heritage Value	Moderate heritage impact expected	High heritage impact expected	Very high heritage impact expected	Very high heritage impact expected						
CONTEXT 2 Medium to high heritage value	Minimal heritage impact expected	Moderate heritage impact expected	High heritage impact expected	Very high heritage impact expected						
CONTEXT 3 Medium to low heritage value	Little or no heritage impact expected	Minimal heritage impact expected	Moderate heritage impact expected	High heritage impact expected						
CONTEXT 4 Low to no heritage value	Little or no heritage impact expected	Little or no heritage impact expected	Minimal heritage value expected	Moderate heritage impact expected						

NOTE: A DEFAULT "LITTLE OR NO HERITAGE IMPACT EXPECTED" VALUE APPLIES WHERE A HERITAGE RESOURCE OCCURS OUTSIDE THE IMPACT ZONE OF THE DEVELOPMENT.

HERITAGE CONTEXTS	CATEGORIES OF DEVELOPMENT
Context 1: Of high intrinsic, associational and contextual heritage value within a national, provincial and local context, i.e. formally declared or potential Grade 1, 2 or 3A heritage resources Context 2:	Category A: Minimal intensity development - No rezoning involved; within existing use rights. - No subdivision involved. - Upgrading of existing infrastructure within existing envelopes - Minor internal changes to existing structures - New building footprints limited to less than 1000m2.
Of moderate to high intrinsic, associational and contextual value within a local context, i.e. potential Grade 3B heritage resources.	Category B: Low-key intensity development

Context 3:

Of medium to low intrinsic, associational or contextual heritage value within a national, provincial and local context, i.e. potential Grade 3C heritage resources

Context 4:

Of little or no intrinsic, associational or contextual heritage value due to disturbed, degraded conditions or extent of irreversible damage.

- Spot rezoning with no change to overall zoning of a site.
- Linear development less than 100m
- Building footprints between 1000m2-2000m2
- Minor changes to external envelop of existing structures (less than 25%)
- Minor changes in relation to bulk and height of immediately adjacent structures (less than 25%).

Category C: Moderate intensity development

- Rezoning of a site between 5000m2-10 000m2.
- Linear development between 100m and 300m.
- Building footprints between 2000m2 and 5000m2
- Substantial changes to external envelop of existing structures (more than 50%)
- Substantial increase in bulk and height in relation to immediately adjacent buildings (more than 50%)

Category D: High intensity development

- Rezoning of a site in excess of 10 000m2
- Linear development in excess of 300m.
- Any development changing the character of a site exceeding 5000m2 or involving the subdivision of a site into three or more erven.
- Substantial increase in bulk and height in relation to immediately adjacent buildings (more than 100%)

7.3.3 Management actions

Recommendations on relevant heritage resources management actions are vital to the conservation of heritage resources. Recommended management actions may include the following:

No further action / Monitoring

Where no heritage resources have been documented, heritage resources occur well outside the impact zone of any development or the primary context of the surroundings at a development footprint has been largely destroyed or altered, no further immediate action is required. Site monitoring during development, by an ECO or the heritage specialist are often added to this recommendation in order to ensure that no undetected heritage\ remains are destroyed.

Avoidance

This is appropriate where any type of development occurs within a formally protected or significant or sensitive heritage context and is likely to have a high negative impact. Mitigation is not acceptable or not possible.

Mitigation

This is appropriate where development occurs in a context of heritage significance and where the impact is such that it can be mitigated to a degree of medium to low significance, e.g. the high to medium impact of a development on an archaeological site could be mitigated through sampling/excavation of the remains. Not all negative impacts can be mitigated.

Compensation

Compensation is generally not an appropriate heritage management action. The main function of management actions should be to conserve the resource for the benefit of future generations. Once lost it cannot be renewed. The circumstances around the potential public or heritage benefits would need to be exceptional to warrant this type of action, especially in the case of where the impact was high.

Rehabilitation

Rehabilitation is considered in heritage management terms as a intervention typically involving the adding of a new heritage layer to enable a new sustainable use. It is not appropriate when the process necessitates the removal of previous historical layers, i.e. restoration of a building or place to the previous state/period. It is an appropriate heritage management action in the following cases:

- The heritage resource is degraded or in the process of degradation and would benefit from rehabilitation.
- Where rehabilitation implies appropriate conservation interventions, i.e. adaptive reuse, repair and maintenance, consolidation and minimal loss of historical fabric.
- Where the rehabilitation process will not result in a negative impact on the intrinsic value of the resource.

Enhancement

Enhancement is appropriate where the overall heritage significance and its public appreciation value are improved. It does not imply creation of a condition that might never have occurred during the evolution of a place, e.g. the tendency to sanitize the past. This management action might result from the removal of previous layers where these layers are culturally of low significance and detract from the significance of the resource. It would be appropriate in a range of heritage contexts and applicable to a range of resources. In the case of formally protected or significant resources, appropriate enhancement action should be encouraged. Care should, however, be taken to ensure that the process does not have a negative impact on the character and context of the resource. It would thus have to be carefully monitored.

7.3.4 Site significance and impact rating

Refer to Section 7.3.1, Section 7.3.2 & Section 7.3.3 for background on the rating of impacts and recommendation of management actions for sites of heritage potential. Impact thresholds and management measures for the sites are further discussed in section 7.3.5.

- Site HP01 & Site HP03

		rical Period Structures								
	Site Descrip									
		ical settlement, includi	ng hut v	vall rema	ins and the indented	foundati	ons structure	s of cattle byre	s.	
1.2 Site features /	artefacts / C	Other								
Site Location										
Province / District	Ea	stern Cape Province	Cape Province		Map Number	30)29DC			
Farm / Settlement / Zone	Ntl	amvukazi Commonage			Co-ordinates		30.74693 30.75748		70333 72059	
Site Type					_					
Surface sites		X			Caves and rock s	helters				
Larger open-air site	s				Sealed sites (dep	osits				
River deposits					Other					
Site Function										
Living / habitation		X			Kill					
Ceremonial					Burial					
Trading / Barter					Art					
Quarry / Mining / Sr	nelting				Other					
Site Placement										
Valley floor		Hill top			Vlei/swamp			River Mouth		
Dam		River Bank			Slope			Plains	X	
Other / Comments										
Vegetation										
Riverine forest		Bushveld			Savannah			Mountain forest		
Thornveld		Grassland	X		Cultivated	X		Other		
Age Classification										
Stone Age		Early Iron Age			Middle Iron Age			Later Iron Age		
	X	Other	X - re	cent						
Material Culture										
Midden	X	House Remains		Х	Stone Walling			Stone Structure	s	Х
Granary		Grinding Stone (L)		Grinding Stone (L	J)		Granary Stand		
Metal	X	Ceramics (Potter			Ceramics (Porcel			Stone (non-lithi	c)	X
Metal slag		Tuyere	,		Fauna	,		Bead (Glass)	,	
Bead (OES / Shell)			Lithics			Smelting Residues				
Other: X - Plastic					Other: X - concre	ete				
1.3 Site Condition					22.2.7. 23.1010	-				
	as heen se	everely compromised a	nd stru	tures ha	ve almost completely	collane	ed			
2. SITE EVALUATI			Juul		To annout completely	Jonapa				
2.1 Heritage Value		ection 2 [3])					High	Mediu	n	Low
-		inity or pattern of South	Δfrica's h	nietory or	ore-colonial history		Tilgir	X	"	LOW
•		n, rare or endangered as			•	l la autra i		^		X

t has potential to y natural and cultura	rield information that will contribute to an u Il heritage.	inderstanding of South Africa	's		X		
t is of importance	in demonstrating the principle characterist places or objects.	ics of a particular class of So	uth Africa's			Х	1000
t has importance i cultural group.	n exhibiting particular aesthetic characteris	ommunity or		x			
t has importance i particular period.	n demonstrating a high degree of creative	or technical achievement at	a			X	
t has marked or sp spiritual reasons (s	pecial association with a particular commusense of place).	nity or cultural group for soci	al, cultural or			Х	
t has strong or spe the history of Sout	ecial association with the life or work of a ph Africa.	person, group or organisation	of importance in		X		
t has significance developed as a tou	through contributing towards the promotiourist destination.	n of a local sociocultural iden	tity and can be			х	
t has significance	relating to the history of slavery in South A	Africa.				X	
t has importance to the starterns and huma	o the wider understanding of temporal cha n occupation.	anges within cultural landscap	oes, settlement		X		
2.2 Field Registe	r Rating						
National/Grade 1 [should be registered, retained]						
rovincial/Grade 2	[should be registered, retained]						
ocal/Grade 3A [sl	nould be registered, mitigation not advised	i]					
ocal/Grade 3B [H	igh significance; mitigation, partly retained	1]					
Generally Protecte	d A [High/Medium significance, mitigation]						
Generally protecte	d B [Medium significance, to be recorded]					X	
Generally Protecte	d C [Low significance, no further action]						
2.3 Sphere of Sig	nificance		High	Mediu	ım L	.ow	
nternational							
National							
Provincial							
Local				Х			
Specific community	у						
. IMPACT RATIN	G AND MITIGATION						
3.1 Impact assess	sment						
	APPROXIMATE D	ISTANCE FROM DEVELOP	MENT: 0 - 100 MET	ERS			
	NATURE OF IMPACT: HISTORICA	AL, AESTHETIC, SOCIAL, SO	CIENTIFIC, ARCHITE	ECTURAL & V	ISUAL.		
		EXTENT OF IMPACT: Lo	ocal				
	SPECIALIST LEVEL OF C	ONFIDENCE IN DEGREE O	F IMPACT AND SEV	/ERITY: High			
3.2 Impact Signifi	cance and Severity						
			Without Manage		With Manag	gement*	
Canaral accoon	ant of impacts on recourse	Duration	Permanent: High	h	Permanent		
Refer to Section	ent of impacts on resource 7.3.1)	Intensity	Local: High		Local: Low		
		Probability	Probable		Improbable	!	
		Impact Significance	Very High		Negligible		
3.3 Direct Impact							
Direct impact	None (the potential development does						
on resource	Peripheral / Indirect (the heritage resor						X
		arce or site is physically locate	and an effective them. The action of a	t of the notanti	al davalanment	١	11

matrix or applicable conservation buffers of the development.

3.4 Recommended Management* (refer to section 7.3.3)

Avoidance / Monitoring

Comments on recommended management

Avoidance: Management of development process in order to avoid impact on the resources.

Monitoring: It is necessary that the sites be monitored to ensure that heritage resources are not impacted on. If further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of sites.
- Further desktop study and community consultation to more accurately ascertain context of sites.
- Relevant Permitting from Heritage Resources Authority where applicable. .

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- National Heritage Resources Act (Act no. 25 of 1999)
- Local and regional provisions, laws and by-laws

- Site HP02 & Site HP07

1.1 General S		•									
Histo	orical hou	ses and	structures: Western	style fa	rmstead w	ith a number of poor	ly prese	rved outl	buildings and ot	ner building	gs.
1.2 Site featur	es / artefa	acts / Otl	ner								
Site Location											
Province / Dist	rict	East	ern Cape Province			Map Number	30)29DC			
Farm Name		Ntlar	nvukazi & Nkantolo	Commo	nages	Co-ordinates		30.75429 30.83492		29.71256 29.72112	
Site Type											
Surface sites			X			Caves and rock sh	helters				
Larger open-ai	ir sites					Sealed sites (depo	osits				
River deposits						Other					
Site Function											
Living / habita	tion		X			Kill					
Ceremonial						Burial					
Trading / Barte	er					Art					
Quarry / Mining	g / Smeltin	ng				Other	Other				
Site Placemer	nt										
Valley floor			Hill top			Vlei/swamp			River Mouth		
Dam			River Bank			Slope			Plains	Х	
Other / Comme	ents										
Vegetation			·								
Riverine forest			Bushveld			Savannah			Mountain fo	rest	
Thornveld			Grassland	X		Cultivated	Х		Other		
Age Classifica	ation									,	
Stone Age			Early Iron Age			Middle Iron Age			Later Iron A	ge	
Historical	Х		Other	X - re	ecent						
Material Cultu	ire										
Midden		Х	House Remains		X	Stone Walling		X	Stone Struc	ures	Х
Granary			Grinding Stone (L)		Grinding Stone (U)		Granary Sta	nd	
Metal		X	Ceramics (Potter	r)		Ceramics (Porcela	ain)		Stone (non-	ithic)	X
Metal slag			Tuyere			Fauna			Bead (Glass)	
Bead (OES / S	Shell)		Glass		Х	Lithics			Smelting Re	sidues	

Nkantolo Access Road U	pgrade: Arc	naeological Imp	act Assessr	nent Rep	ort	
Other: X - Buildings		Other:				
1.3 Site Condition						
The condition of the resources is fair to poor since the	sites are not ma	intained.				
2. SITE EVALUATION						
2.1 Heritage Value (NHRA, section 2 [3])			Н	igh	Medium	Low
It has importance to the community or pattern of South Afric	a's history or pre	-colonial history.			X	
It possesses unique, uncommon, rare or endangered aspec	ts of South Africa	s natural or cultural	heritage.		X	
It has potential to yield information that will contribute to an natural and cultural heritage.	understanding of	South Africa's			x	
It is of importance in demonstrating the principle characteris natural or cultural places or objects.	ca's		х			
It has importance in exhibiting particular aesthetic character cultural group.	ristics valued by a	particular communi	ty or		x	
It has importance in demonstrating a high degree of creative particular period.	e or technical ach	ievement at a			х	
It has marked or special association with a particular commuspiritual reasons (sense of place).	unity or cultural g	roup for social, cultu	ral or		х	
It has strong or special association with the life or work of a the history of South Africa.	person, group or	organisation of impo	ortance in		х	
It has significance through contributing towards the promotion developed as a tourist destination.	on of a local soci	ocultural identity and	can be			X
It has significance relating to the history of slavery in South	Africa.					X
It has importance to the wider understanding of temporal ch patterns and human occupation.	anges within cult	ural landscapes, set	lement		X	
2.2 Field Register Rating						
National/Grade 1 [should be registered, retained]						
Provincial/Grade 2 [should be registered, retained]						
Local/Grade 3A [should be registered, mitigation not advise	d]					
Local/Grade 3B [High significance; mitigation, partly retained	d]					
Generally Protected A [High/Medium significance, mitigation	1]					X
Generally protected B [Medium significance, to be recorded]					
Generally Protected C [Low significance, no further action]						
2.3 Sphere of Significance			High	Mediu	m	Low
International						
National						
Provincial						
Local				X		
Specific community						
3. IMPACT RATING AND MITIGATION						
3.1 Impact assessment						
APPROXIMATE I	DISTANCE FRO	M DEVELOPMENT:	0 - 100 METER	S		
NATURE OF IMPACT: Historic	cal, Aesthetic, So	cial, Scientific, Intrin	sic, Associationa	I & Context	ual	
	EXTENT OF	IMPACT: Local				
SPECIALIST LEVEL OF C	CONFIDENCE IN	DEGREE OF IMPA	CT AND SEVER	ITY: High		
3.2 Impact Significance and Severity						
		With	nout Manageme	nt*	With Mana	agement*
General assessment of impacts on resource	Duration	Per	manent: High		Permaner	nt: Low
(Refer to Section 7.3.1)	Intensity	Loc	Local: High			.,
,	intensity		ui. riigii		Local: Lo	W

	Impact Significance Very High	Negligible	
3.3 Direct Impact	Rating		
Direct impact	None (the potential development does not adversely or positively affect the heritage resource)		
on resource	Peripheral / Indirect (the heritage resource or its setting is located in proximity to the footprint	of the potential development)	X
	Destruction / Direct (the heritage resource or site is physically located within the footprint of the	e potential development)	
Note that a defaul	ing (Refer to Section 7.3.2) t "no impact expected" value applies where a heritage resource occurs outside the impact le conservation buffers of the development.	High heritage impact expe	cted.
3.4 Recommende	ed Management* (refer to section 7.3.3)		

Avoidance, Monitoring. Ensure that mission complex is not impacted on.

Comments on recommended management

Avoidance: Management of development process in order to avoid impact on the resources.

Monitoring: It is necessary that the sites be monitored to ensure that heritage resources are not impacted on. If further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of sites.
- Further desktop study and community consultation to more accurately ascertain context of sites.
- Relevant Permitting from Heritage Resources Authority where applicable. .

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- National Heritage Resources Act (Act no. 25 of 1999)
- Local and regional provisions, laws and by-laws

- Site HP04

1. SITE DESCRIP	TION						
1.1 General Site I	Description						
		The s	ite of the OR Tam	nbo Memorial Garden	Complex		
1.2 Site features /	/ artefacts / Oth	ner					
Site Location							
Province / District	Easte	ern Cape Province		Map Number	3029DC		
Farm Name	Nkan	tolo Commonage		Co-ordinates	S30.75651		E29.71848
Site Type							
Surface sites		X		Caves and rock sh	nelters		
Larger open-air sit	es			Sealed sites (depo	osits		
River deposits				Other			
Site Function							
Living / habitation		X	X				
Ceremonial				Burial			
Trading / Barter				Art			
Quarry / Mining / S	Smelting			Other			orial / Museum
Site Placement							
Valley floor		Hill top		Vlei/swamp		River Mo	outh
Dam		River Bank		Slope	X	Plains	
Other / Comments	}						
Vegetation							
Riverine forest		Bushveld		Savannah		Mountair	n forest
Thornveld		Grassland	X	Cultivated	X	Other	
Age Classificatio	n						
Stone Age		Early Iron Age		Middle Iron Age		Later Iro	n Age
Historical	Х	Other	X - recent				

		de: Archaeological Imp			
Material Culture				-,	No. of Contract of
Midden	House Remains	Stone Walling	X	Stone Structures	X
Granary	Grinding Stone (L)	Grinding Stone (U)		Granary Stand	0.030%
Metal	Ceramics (Potter)	Ceramics (Porcelai	n)	Stone (non-lithic)	Х
Metal slag	Tuyere	Fauna		Bead (Glass)	
Bead (OES / Shell)	Glass	Lithics		Smelting Residue	S
Other: X - Burials		Other: X – Memori	al Plaques		
1.3 Site Condition					
-	enovated and is maintained, and th	nerefore the condition of the	resource is good	•	
2. SITE EVALUATION					
2.1 Heritage Value (NHRA, s			Hig	h Medium	Low
It has importance to the comm	nunity or pattern of South Africa's histo	ory or pre-colonial history.	X		
	on, rare or endangered aspects of Sc		neritage. X		
It has potential to yield information and cultural heritage.	ation that will contribute to an understa	anding of South Africa's	x		
It is of importance in demonsti natural or cultural places or ob	rating the principle characteristics of a pjects.	a particular class of South Africa	a's X		
It has importance in exhibiting cultural group.	particular aesthetic characteristics va	alued by a particular community	ror	х	
	ating a high degree of creative or tech	hnical achievement at a		х	
	ciation with a particular community or	cultural group for social, cultural	al or X		
, , ,	ation with the life or work of a person,	, group or organisation of impor	tance in X		
	ntributing towards the promotion of a l	local sociocultural identity and o	can be X		
	he history of slavery in South Africa.				X
	understanding of temporal changes v	within cultural landscapes, settl	ement	x	
2.2 Field Register Rating	лі.				
National/Grade 1 [should be re	egistered retained1				Х
Provincial/Grade 2 [should be	•				^
	gistered, mitigation not advised]				
-	ance; mitigation, partly retained]				
	Medium significance, mitigation]				
	m significance, to be recorded]				
Generally Protected C [Low si					
2.3 Sphere of Significance	gsarios, no latitioi dollorij		High	Medium	Low
International			9	mountain	
National			X		
Provincial					
Local					
Specific community					
opeonic community					
3. IMPACT RATING AND MIT	TIGATION				

NATURE OF IMPACT: Historical, Aesthetic, Social, Scientific, Intrinsic, Associational & Contextual

EXTENT OF IMPACT: Local

SPECIALIST LEVEL OF CONFIDENCE IN DEGREE OF IMPACT AND SEVERITY: High 3.2 Impact Significance and Severity Without Management* With Management* Duration Permanent: High Permanent: Low General assessment of impacts on resource Local: High Intensity Local: Low (Refer to Section 7.3.1) Improbable Probability **Probable** Impact Significance Very High Negligible 3.3 Direct Impact Rating None (the potential development does not adversely or positively affect the heritage resource) Direct impact on resource Peripheral / Indirect (the heritage resource or its setting is located in proximity to the footprint of the potential development) X Destruction / Direct (the heritage resource or site is physically located within the footprint of the potential development) Direct impact rating (Refer to Section 7.3.2) Note that a default "no impact expected" value applies where a heritage resource occurs outside the impact High heritage impact expected. matrix or applicable conservation buffers of the development. 3.4 Recommended Management* (refer to section 7.3.3) Avoidance, Monitoring. Ensure that site is not impacted on. Comments on recommended management It is recommended that the proposed activity be aligned to avoid the heritage feature and proposed conservation buffer zones at all times. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on during all stages of development. 4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS National Heritage Resources Act (Act no. 25 of 1999) Local and regional provisions, laws and by-laws

- Site HP05

1. SITE DESCRIPTION	N							
1.1 General Site Des	cription							
			The site of the C	OR Tambo Homestea	ıd.			
1.2 Site features / ar	tefacts / Othe	er						
Site Location								
Province / District	Easter	rn Cape Province		Map Number	3029DC			
Farm Name	Nkant	olo Commonage		Co-ordinates	S30.78097	E29.72019		
Site Type								
Surface sites		X		Caves and rock s	helters			
Larger open-air sites				Sealed sites (dep	oosits			
River deposits				Other				
Site Function								
Living / habitation				Kill				
Ceremonial				Burial				
Trading / Barter				Art				
Quarry / Mining / Smelting				Other		X - Memorial		
Site Placement								
Valley floor		Hill top		Vlei/swamp		River Mouth		
Dam		River Bank		Slope	X	Plains		
Other / Comments								
Vegetation								
Riverine forest		Bushveld		Savannah		Mountain forest		
Thornveld		Grassland	X	Cultivated	X	Other		

Age Classification									-
Stone Age	Early Iron Age		Middle Iron Age			Later	Iron Age		
Historical X	Other	X - recent							10 513
Material Culture		·							
Midden	House Remains		Stone Walling	Х		Stone Structures		;	Х
Granary	Grinding Stone (L)	Grinding Stone (U	(U)		Granary Stand			
Metal	Ceramics (Potter	Ceramics (Porce		ain)		Stone	one (non-lithic)		X
Metal slag	Tuyere	Fauna				Bead	ad (Glass)		
Bead (OES / Shell)	Glass		Lithics			Smel	elting Residues		
Other: X - House Struct	Other:								
1.3 Site Condition									
The site has recently b	een renovated and is maintai	ned, and therefo	re the condition of the	resourc	e is good				
2. SITE EVALUATION									
2.1 Heritage Value (NF	2.1 Heritage Value (NHRA, section 2 [3])					h	Medium		Low
It has importance to the community or pattern of South Africa's history or pre-colonial history.					Х				
It possesses unique, uncommon, rare or endangered aspects of South Africa's natural or cultural heritage.									
It has potential to yield information that will contribute to an understanding of South Africa's									
natural and cultural heritage.					X				
It is of importance in demonstrating the principle characteristics of a particular class of South Africa's natural or cultural places or objects.									
It has importance in exhibiting particular aesthetic characteristics valued by a particular community or cultural group.							X		
It has importance in demonstrating a high degree of creative or technical achievement at a particular period.							х		
It has marked or special association with a particular community or cultural group for social, cultural or spiritual reasons (sense of place).									
It has strong or special association with the life or work of a person, group or organisation of importance in the history of South Africa.									
It has significance through contributing towards the promotion of a local sociocultural identity and can be developed as a tourist destination.									
It has significance relating to the history of slavery in South Africa.									Χ
It has importance to the wider understanding of temporal changes within cultural landscapes, settlement patterns and human occupation.							Х		
2.2 Field Register Rati	ing								
National/Grade 1 [should	d be registered, retained]								Χ
Provincial/Grade 2 [should be registered, retained]									
Local/Grade 3A [should be registered, mitigation not advised]									
Local/Grade 3B [High significance; mitigation, partly retained]									
Generally Protected A [High/Medium significance, mitigation]									
Generally protected B [Medium significance, to be recorded]									
Generally Protected C [Low significance, no further action]									
2.3 Sphere of Significa	3 Sphere of Significance High					Medium		m Low	
International									
National	tional								
Provincial									
Local									
Specific community									
3. IMPACT RATING AN	ID MITIGATION								
3.1 Impact assessment	t								

APPROXIMATE DISTANCE FROM DEVELOPMENT: 1000+ METERS NATURE OF IMPACT: Historical, Aesthetic, Social, Scientific, Intrinsic, Associational & Contextual **EXTENT OF IMPACT: Local** SPECIALIST LEVEL OF CONFIDENCE IN DEGREE OF IMPACT AND SEVERITY: High 3.2 Impact Significance and Severity Without Management* With Management* Duration Permanent: Low **Permanent: Low** General assessment of impacts on resource Intensity Low Low (Refer to Section 7.3.1) Probability **Improbable** Improbable Impact Significance Negligible Negligible 3.3 Direct Impact Rating None (the potential development does not adversely or positively affect the heritage resource) X Direct impact on resource Peripheral / Indirect (the heritage resource or its setting is located in proximity to the footprint of the potential development) Destruction / Direct (the heritage resource or site is physically located within the footprint of the potential development) Direct impact rating (Refer to Section 7.3.2) Note that a default "no impact expected" value applies where a heritage resource occurs outside the impact No impact expected. matrix or applicable conservation buffers of the development. 3.4 Recommended Management* (refer to section 7.3.3) Avoidance, Monitoring. Ensure that homestead is not impacted on. Comments on recommended management It is recommended that the proposed activity be aligned to avoid the heritage feature and proposed conservation buffer zones at all times. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on during all stages of development. 4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS National Heritage Resources Act (Act no. 25 of 1999)

- Site HP06

Local and regional provisions, laws and by-laws

1. SITE DESCRIPTION							
1.1 General Site Descript	tion						
			The site of the Luc	deke Mission Statio	n.		
1.2 Site features / artefac	cts / Other						
Site Location							
Province / District	Eastern	Cape Province		Map Number	3029DC		
Farm Name	Nkantol	o Commonage		Co-ordinates	\$30.81600		E29.71949
Site Type							
Surface sites		X		Caves and rock sh	nelters		
Larger open-air sites				Sealed sites (deposits			
River deposits				Other			
Site Function							
Living / habitation				Kill			
Ceremonial				Burial			
Trading / Barter				Art			
Quarry / Mining / Smelting				Other		X – Miss	ion Station
Site Placement							
Valley floor		Hill top		Vlei/swamp		River Mo	uth
Dam		River Bank		Slope	X	Plains	
Other / Comments							
Vegetation							

Riverine forest		Bushveld		Savannah			Mountain fore	est	
Thornveld		Grassland	X	Cultivated	X		Other		
Age Classifica	ation								1000710-79-2
Stone Age		Early Iron Age		Middle Iron Age			Later Iron Ag	е	
Historical	X	Other	X - recent						
Material Cultu	ire								
Midden		House Remains		Stone Walling		X	Stone Structu	ıres	X
Granary		Grinding Stone (L)	Grinding Stone (U	J)		Granary Star	nd	
Metal		Ceramics (Potter	r)	Ceramics (Porcel	ain)		Stone (non-li	thic)	Х
Metal slag		Tuyere		Fauna			Bead (Glass)		
Bead (OES / S	Shell)	Glass		Lithics			Smelting Res	sidues	
Other: X - Buil	ldings			Other:					
1.3 Site Condi	ition								
The condition	of the resource	is good.							
2. SITE EVAL	UATION								
2.1 Heritage V	/alue (NHRA, sec	ction 2 [3])				High	n Med	ium	Low
It has importan	nce to the commun	nity or pattern of South	Africa's history or	r pre-colonial history.		X			
				Africa's natural or cultura	l heritage.	X			
	-	on that will contribute to	an understandin	ng of South Africa's		х			
			teristics of a part	icular class of South Afri	ica's	х			
It has importan	ural and cultural heritage. of importance in demonstrating the principle characteristics of a particular class of South Afrural or cultural places or objects. as importance in exhibiting particular aesthetic characteristics valued by a particular communural group. as importance in demonstrating a high degree of creative or technical achievement at a						Х		
It has importan		ng a high degree of cre	ative or technical	I achievement at a			х		
It has marked		·	mmunity or cultu	ral group for social, cultu	ıral or	х			
	r special association		of a person, grou	up or organisation of imp	ortance in	х			
It has significar			notion of a local	sociocultural identity and	d can be	х			
<u>'</u>		history of slavery in So	outh Africa.						X
It has importan		derstanding of tempora		cultural landscapes, se	ttlement		х		
2.2 Field Reg	· · · · · · · · · · · · · · · · · · ·								
	e 1 [should be regi	stered, retained]							
	de 2 [should be re								Х
Local/Grade 3/	A [should be regist	tered, mitigation not ad	vised]						
Local/Grade 38	B [High significand	ce; mitigation, partly reta	ained]						
Generally Prote	ected A [High/Med	dium significance, mitiga	ation]						
Generally prote	ected B [Medium s	significance, to be recor	rded]						
Generally Prote	ected C [Low sign	ificance, no further action	on]						
2.3 Sphere of	Significance				High		Medium	Lo	W
International									
National									
Provincial					X				
Local									

Specific communit	у									
3. IMPACT RATIN	IG AND MITIGATION									
3.1 Impact assess	sment					The Constitution of Constituti				
	APPROXIMATE	DISTANCE FROM DEVELOP	MENT: 0 - 100 M	ETERS		W/V				
	NATURE OF IMPACT: Histori	ical, Aesthetic, Social, Scientific	c, Intrinsic, Assoc	iational & Context	ual					
		EXTENT OF IMPACT: Lo	cal							
	SPECIALIST LEVEL OF	CONFIDENCE IN DEGREE OF	IMPACT AND S	SEVERITY: High						
3.2 Impact Signifi	cance and Severity									
			Without Mana	agement*	With Management	*				
		Duration	Permanent: Medium		Permanent: Low					
	SPECIALIST LEVEL Compact Significance and Severity Impact Significance and Severity Ineral assessment of impacts on resource after to Section 7.3.1) Direct Impact Rating None (the potential development of Peripheral / Indirect (the heritage in Peri	Intensity	High		Low					
(,	Probability	Probable		Improbable					
		Impact Significance	High		Negligible					
3.3 Direct Impact	Rating									
Direct impact	None (the potential development does not adversely or positively affect the heritage resource)									
on resource	Peripheral / Indirect (the heritage res	Peripheral / Indirect (the heritage resource or its setting is located in proximity to the footprint of the potential development)								
	Destruction / Direct (the heritage reso	ource or site is physically locate	ed within the footp	orint of the potentia	al development)					
Note that a default	"no impact expected" value applies whe		outside the impac	t High	heritage impact expe	cted.				
3.4 Recommende	d Management* (refer to section 7.3.3)								
Avoidance, Monit	toring. Ensure that mission complex is	s not impacted on.								
	•									
addition, it is nec	d that the proposed activity be aligne essary that the site be monitored to e	nsure that heritage resources								
4. APPLICABLE L	EGISLATION AND LEGAL REQUIREN	IENTS								
	nal Heritage Resources Act (Act no. 29 and regional provisions, laws and by	,								

- Site BP01

1. SITE DESCRIPTION							
1.1 General Site Descrip	tion						
		A single unma	arked grave, dresse	d with a painted concr	ete structure.		
1.2 Site features / artefac	ts / Other						
Site Location							
Province / District	Eastern	Cape Province		Map Number	3029DC		
Farm Name	Ntlamv	ukazi Commonage		Co-ordinates	S30.75265		E29.70616
Site Type							
Surface sites		X		Caves and rock shelt	ers		
Larger open-air sites				Sealed sites (deposits	3		
River deposits				Other			
Site Function							
Living / habitation				Kill			
Ceremonial				Burial		X	
Trading / Barter				Art			
Quarry / Mining / Smelting				Other			
Site Placement							
Valley floor		Hill top		Vlei/swamp		River Mou	ith

Dam		River Bank		Slope	Х		Plains	i		New Section
Other / Comm	ents									
Vegetation										
Riverine forest		Bushveld		Savannah			Moun	tain forest		
Thornveld		Grassland	X	Cultivated	X		Other			
Age Classific	ation									
Stone Age		Early Iron Age		Middle Iron Age			Later	Iron Age		
Historical	X	Other	X - Recent							
Material Cult	ure						_			_
Midden		House Remains		Stone Walling				Structures		
Granary		Grinding Stone		Grinding Stone (I				ry Stand		
Metal		Ceramics (Potte	ery)	Ceramics (Porce	lain)			(non-lithic)		
Metal slag		Tuyere		Fauna				(Glass)		
Bead (OES / S	,	Glass		Lithics		Х	Smelt	ing Residue	es	
Other: X – gra				Other: X – funer	al goods					
1.3 Site Cond										
		e burial is probably of	more recent age.							
2. SITE EVAL									_	
	Value (NHRA, se		AC. 1.11.			High	1	Medium		Low
		unity or pattern of South				\		X		
		n, rare or endangered a			al heritage.	X				
natural and cu	ıltural heritage.	ion that will contribute to						X		
	nce in demonstra ural places or obj	iting the principle charac ects.	cteristics of a partic	ular class of South Afr	ica's	x				
It has important cultural group.		particular aesthetic char	acteristics valued b	y a particular commur	ity or					X
It has importar particular perio		ting a high degree of cre	eative or technical a	achievement at a						Х
	or special associ	ation with a particular co	ommunity or culture	ll group for social, culti	ural or	х				
It has strong of the history of S		tion with the life or work	of a person, group	or organisation of imp	ortance in					X
-	ince through cont a tourist destinati	ributing towards the pro	motion of a local so	ociocultural identity and	d can be					х
It has significa	ince relating to the	e history of slavery in S	outh Africa.							X
	nce to the wider unuman occupation	inderstanding of tempor	al changes within o	ultural landscapes, se	ttlement			X		
2.2 Field Reg	gister Rating									
National/Grad	e 1 [should be re	gistered, retained]								
Provincial/Gra	de 2 [should be re	egistered, retained]								
Local/Grade 3	A [should be regi	stered, mitigation not ac	dvised]							
Local/Grade 3	B [High significar	nce; mitigation, partly re	tained]							X
		edium significance, mitig								
Generally prot	ected B [Medium	significance, to be reco	rded]							
Generally Pro	tected C [Low sig	nificance, no further act	ion]							
2.3 Sphere of	Significance				High		Mediur	n	Low	
International										

National		
Provincial		
Local	X	100
Specific community		1/4/
2 IMPACT PATING AND MITIGATION		

3.1 Impact assessment

APPROXIMATE DISTANCE FROM DEVELOPMENT: 0 - 100METERS

NATURE OF IMPACT: Historical, Aesthetic, Social, Scientific, Intrinsic, Associational & Contextual

EXTENT OF IMPACT: Local

SPECIALIST LEVEL OF CONFIDENCE IN DEGREE OF IMPACT AND SEVERITY: High

3.2 Impact Significance and Severity

ı			Without Management*	With Management*
		Duration	Permanent: High	Permanent: Low
	General assessment of impacts on resource (Refer to Section 7.3.1)	Intensity	Local: High	Local: Low
	,	Probability	Probable	Improbable
		Impact Significance	Very High	Negligible

3.3 Direct Impact Rating

Direct impact	None (the potential development does not adversely or positively affect the heritage resource)	
on resource	Peripheral / Indirect (the heritage resource or its setting is located in proximity to the footprint of the potential development)	X
	Destruction / Direct (the heritage resource or site is physically located within the footprint of the potential development)	

Direct impact rating (Refer to Section 7.3.2)

Note that a default "no impact expected" value applies where a heritage resource occurs outside the impact matrix or applicable conservation buffers of the development.

High heritage impact expected.

10000 00

3.4 Recommended Management* (refer to section 7.3.3)

Avoidance & Monitoring / Mitigation

Comments on recommended management

It is recommended that all phase of the proposed activity be done in such a manner as to avoid the heritage feature or proposed conservation buffer zones. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on.

However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- **Exhumation and reburial**
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority. . .

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

Site BP02

1. SITE DESCRIPTION 1.1 General Site Description At least two unmarked graves, enclosed in a dilapidated fence structure. 1.2 Site features / artefacts / Other Site Location Province / District **Eastern Cape Province** Map Number 3029DC Farm Name Ntlamvukazi. Commonage Co-ordinates S30.75335 E29.70711



						9					ACTION OF THE PERSON OF T
Site Type											Harris Control
Surface sites			X			Caves and rock s	helters				
Larger open-air	sites					Sealed sites (dep	osits				1
River deposits						Other					
Site Function											
Living / habitat	ion					Kill					
Ceremonial						Burial			X		
Trading / Barter	ſ					Art					
Quarry / Mining	/ Smelti	ng				Other					
Site Placemen	t										
Valley floor			Hill top			Vlei/swamp			River	Mouth	
Dam			River Bank			Slope	Χ		Plain	s	
Other / Comme	nts										
Vegetation			I.								
Riverine			D 1								
forest			Bushveld			Savannah			Mour	ntain forest	
Thornveld			Grassland	X		Cultivated	X		Othe	r	
Age Classifica	tion										
Stone Age			Early Iron Age			Middle Iron Age			Later	Iron Age	
Historical	X		Other	se Remains Stone Walling							
Material Cultur	re	<u>'</u>									
Midden			House Remains						Stone	e Structures	
Granary			Grinding Stone (I					Gran	ary Stand		
Metal			Ceramics (Potter	γ)		Ceramics (Porcel	ain)		Stone	e (non-lithic)	
Metal slag			Tuyere			Fauna			Bead	(Glass)	
Bead (OES / SI	nell)		Glass	Kill Burial Art Other			X	Smel	melting Residues		
Other: X – grav	e dress	ing	Į.			Other: X – funera	l goods				
1.3 Site Condi						ı					
		or since the	burials are not m	aintaine	d and over	grown.					
2. SITE EVALU						•					
2.1 Heritage V		HRA. section	1 2 [3])			_		High		Medium	Low
				Africa's h	istory or pre	-colonial history.				Х	
							l heritage.	Х			
It has potential	to yield i	nformation th								х	
It is of importan	ce in de	monstrating t	he principle charact	teristics o	of a particula	ar class of South Afri	ca's	x			
	and cultural heritage. Importance in demonstrating the principle characteristics of a particular class of South Africa's or cultural places or objects. Importance in exhibiting particular aesthetic characteristics valued by a particular community or					ity or				х	
	proup. portance in demonstrating a high degree of creative or technical achievement at a										х
	r specia		Grinding Stone (L) Ceramics (Pottery) Tuyere Fauna Glass Cithics Other: X – funeral goo ce the burials are not maintained and overgrown. Section 2 [3]) unity or pattern of South Africa's history or pre-colonial history. on, rare or endangered aspects of South Africa's natural or cultural heritation that will contribute to an understanding of South Africa's ating the principle characteristics of a particular class of South Africa's jects. particular aesthetic characteristics valued by a particular community or ating a high degree of creative or technical achievement at a sistion with a particular community or cultural group for social, cultural or ce). ation with the life or work of a person, group or organisation of importance attributing towards the promotion of a local sociocultural identity and can be a contributing towards the promotion of a local sociocultural identity and can be a contributing towards the promotion of a local sociocultural identity and can be a contributing towards the promotion of a local sociocultural identity and can be a contributing towards the promotion of a local sociocultural identity and can be a contributing towards the promotion of a local sociocultural identity and can be a contributing towards the promotion of a local sociocultural identity and can be a contributing towards the promotion of a local sociocultural identity and can be a contributing towards the promotion of a local sociocultural identity and can be a contributed to the contribution of the								
	special	association w	vith the life or work o	of a perso	on, group or	organisation of imp	ortance in				Х
	ice throu	gh contributir	ng towards the pron	notion of	a local soci	ocultural identity and	d can be				х
It has significan	ice relati	ng to the hist	ory of slavery in So	uth Africa	a.						X
It has important	ce to the	wider unders	standing of tempora	al change	s within cult	ural landscapes, set	tlement			X	

patterns and human occupation.				Terror Co
2.2 Field Register Rating				a de la constantina della cons
National/Grade 1 [should be registered, retained]				100
Provincial/Grade 2 [should be registered, retained]				1/1/
Local/Grade 3A [should be registered, mitigation not advised]				
Local/Grade 3B [High significance; mitigation, partly retained]			Х	
Generally Protected A [High/Medium significance, mitigation]				
Generally protected B [Medium significance, to be recorded]				
Generally Protected C [Low significance, no further action]				
2.3 Sphere of Significance	High	Medium	Low	
International				
National				
Provincial				
Local	X			
Specific community				
3. IMPACT RATING AND MITIGATION				
3.1 Impact assessment				
APPROXIMATE DISTANCE FROM DEVELOPMENT:	0 - 100METERS			
NATURE OF IMPACT: Historical, Aesthetic, Social, Scientific, Intrins	sic, Associational &	Contextual		
EXTENT OF IMPACT: Local				
SPECIALIST LEVEL OF CONFIDENCE IN DEGREE OF IMPAC	CT AND SEVERITY	: High		
3.2 Impact Significance and Severity				
	hout Management*		lanagement*	
Committee of the commit	manent: High		nent: Low	
(Refer to Section 7.3.1)	al: High	Local:		
7.0202mily	bable	Improb		
	y High	Neglig	ible	
3.3 Direct Impact Rating				
Direct impact None (the potential development does not adversely or positively affect the				
on resource Peripheral / Indirect (the heritage resource or its setting is located in proximi	nity to the footprint of	f the potential deve	elopment)	X
Destruction / Direct (the heritage resource or site is physically located within	n the footprint of the	potential develop	ment)	
Direct impact rating (Refer to Section 7.3.2) Note that a default "no impact expected" value applies where a heritage resource occurs outside t matrix or applicable conservation buffers of the development.	the impact	High heritage i	mpact expec	ted.

Avoidance & Monitoring / Mitigation

Comments on recommended management

It is recommended that all phase of the proposed activity be done in such a manner as to avoid the heritage feature or proposed conservation buffer zones. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on.

However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- Exhumation and reburial
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority. .

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws

- National Heritage Resources Act (Act no. 25 of 1999) Permit from SAHRA for removal
- Site BP03

1. SITE DESC 1.1 General S		ntion							
1.1 General S	ile Descri		norked areve	dressed with a painted co	noroto o	truoturo			
1.2 Site featu	roo l ortofo		narkeu grave,	dressed with a painted co	oncrete s	tructure.			
Site Location	les / ai leid	icts / Other							
Province / Dist	riot	Eastern Cape Province		Map Number	203	9DC			
Farm Name	ITICL							F20 7470	17
		Ntlamvukazi Commonage	e 	Co-ordinates	530).75285		E29.7179)/
Site Type		V							
Surface sites		X		Caves and rock sh					
Larger open-a				Sealed sites (depo	osits				
River deposits				Other					
Site Function									
Living / habita	ition			Kill			v		
Ceremonial				Burial			Х		
Trading / Barter Quarry / Mining / Smelting				Art					
· · ·	-	9		Other					
Site Placeme	nt								
Valley floor		Hill top		Vlei/swamp			River M	louth	
Dam		River Bank		Slope	X		Plains		
Other / Comm	ents								
Vegetation									
Riverine forest		Bushveld		Savannah			Mounta	in forest	
Thornveld		Grassland	X	Cultivated	X		Other		
Age Classific	ation								
Stone Age		Early Iron Age		Middle Iron Age			Later Ir	on Age	
Historical	X	Other	X - Recent						
Material Cultu	ire								
Midden		House Remains		Stone Walling			Stone S	Structures	
Granary		Grinding Stone	(L)	Grinding Stone (U))		Granar	y Stand	
Metal		Ceramics (Potte	ry)	Ceramics (Porcela	iin)		Stone ((non-lithic)	
Metal slag		Tuyere		Fauna			Bead (Glass)	
Bead (OES / S	Shell)	Glass		Lithics		X	Smeltin	ng Residues	
Other: X – gra	ve dressir	ng		Other: X – funeral	goods				
1.3 Site Cond	ition								
Site preserva	tion is fair	and the grave is probably o	f more recent	age.					
2. SITE EVAL	UATION								
2.1 Heritage \	/alue (NH	RA, section 2 [3])				High		Medium	Low
It has importar	nce to the	community or pattern of South	Africa's history	or pre-colonial history.				X	
It possesses u	nique, unc	ommon, rare or endangered a	spects of Soutl	h Africa's natural or cultural	heritage.	Х			
It has potentia natural and cu		formation that will contribute to	an understan	ding of South Africa's				Х	
		onstrating the principle charac				X			

-		,g					
natural or cultural p	laces or objects.						PROMOTE NAME OF THE PERSON NAME
It has importance in cultural group.	exhibiting particular aesthetic characteristic	cs valued by a particular co	mmunity or			Х	
It has importance in particular period.	demonstrating a high degree of creative or	technical achievement at a				х	
It has marked or spiritual reasons (se	ecial association with a particular communit ense of place).	y or cultural group for socia	l, cultural or	x			
It has strong or spe the history of South	cial association with the life or work of a per Africa.	son, group or organisation	of importance in			х	
It has significance to developed as a tour	hrough contributing towards the promotion or rist destination.	of a local sociocultural ident	ity and can be			х	
It has significance r	elating to the history of slavery in South Afri	ca.				X	
It has importance to patterns and human	o the wider understanding of temporal chang n occupation.	ges within cultural landscape	es, settlement		X		
2.2 Field Register	Rating						
National/Grade 1 [s	hould be registered, retained]						
Provincial/Grade 2	[should be registered, retained]						
Local/Grade 3A [sh	ould be registered, mitigation not advised]					i	
Local/Grade 3B [High	gh significance; mitigation, partly retained]					Х	
Generally Protected	d A [High/Medium significance, mitigation]					i	
Generally protected	B [Medium significance, to be recorded]						
Generally Protected	C [Low significance, no further action]						
2.3 Sphere of Sign	ificance		High	Mediu	m L	ow	
International							
National							
Provincial							
Local			X				
Specific community	,						
3. IMPACT RATING	G AND MITIGATION						
3.1 Impact assess	ment						
	APPROXIMATE DIS	TANCE FROM DEVELOP	MENT: 0 - 100METE	RS			
	NATURE OF IMPACT: Historical,	Aesthetic, Social, Scientific	, Intrinsic, Association	onal & Contexto	ıal		
		EXTENT OF IMPACT: Loc	cal				
	SPECIALIST LEVEL OF COM	IFIDENCE IN DEGREE OF	IMPACT AND SEV	ERITY: High			
3.2 Impact Signific	cance and Severity						
			Without Manage	ment*	With Manag	ement*	
		Duration	Permanent: High	1	Permanent:	Low	
General assessme (Refer to Section 7	ent of impacts on resource	Intensity	Local: High		Local: Low		
(,	Probability	Probable		Improbable		
		Impact Significance	Very High		Negligible		
3.3 Direct Impact F	Rating						
Di	None (the potential development does no	ot adversely or positively aff	ect the heritage reso	ource)			
Direct impact	Peripheral / Indirect (the heritage resource	e or its setting is located in	proximity to the foot	print of the pote	ential developm	nent)	X
•		e or site is physically locate	d within the footprint	of the potentia	development)		
	Destruction / Direct (the heritage resource	e or one to priyolodily loodle					
Note that a default '	Destruction / Direct (the heritage resource or (Refer to Section 7.3.2) "no impact expected" value applies where a econservation buffers of the development.		utside the impact	High	heritage impac	ct expect	ted.
on resource Direct impact ratin Note that a default ' matrix or applicable	ng (Refer to Section 7.3.2) "no impact expected" value applies where a		utside the impact	High	heritage impad	ct expect	ted.

Comments on recommended management

It is recommended that all phase of the the proposed activity be done in such a manner as to avoid the heritage feature or proposed conservation buffer zones. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on.

However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- Exhumation and reburial
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority. . .

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

- Site BP04

1. SITE DESCI	RIPTION						
1.1 General Si	te Descrip	otion					
		Two marke	ed graves, dres	ssed with painted concre	ete structures.		
1.2 Site featur	es / artefa	cts / Other					
Site Location							
Province / Distr	rict	Eastern Cape Province		Map Number	3029DC		
Farm Name		Ntlamvukazi Commonag	е	Co-ordinates	Co-ordinates \$30.75400		E29.71921
Site Type							
Surface sites		X		Caves and rock sl	helters		
Larger open-air sites				Sealed sites (depo	osits		
River deposits				Other			
Site Function							
Living / habitat	ion			Kill			
Ceremonial				Burial		Х	
Trading / Barter				Art			
Quarry / Mining	/ Smelting	3		Other			
Site Placemen	t						
Valley floor		Hill top		Vlei/swamp		River Mo	outh
Dam		River Bank		Slope	X	Plains	
Other / Comme	ents						
Vegetation							
Riverine forest		Bushveld		Savannah		Mountair	n forest
Thornveld		Grassland	X	Cultivated	X	Other	
Age Classifica	ition						-
Stone Age		Early Iron Age		Middle Iron Age		Later Iro	n Age
Historical	X	Other	X - Recent				
Material Cultu	re						
Midden		House Remains		Stone Walling		Stone St	ructures
Granary		Grinding Stone (L)	Grinding Stone (U)	Granary	Stand
Metal		Ceramics (Potter	ry)	Ceramics (Porcela	ain)	Stone (n	on-lithic)

Metal slag		Tuyere		Fauna				Bead	(Glass)		
Bead (OES / Shell)		Glass		Lithics		X		Smelt	ting Residu	es	
Other: X – grave dress	ing			Other: X – fune	ral goods						1000
1.3 Site Condition											
Site preservation is go	ood as the bu	rials are probably of rece	nt age.								
2. SITE EVALUATION											
2.1 Heritage Value (NI	HRA, section	2 [3])					High		Medium	1	Low
It has importance to the	community o	r pattern of South Africa's hi	story or pre	-colonial history.					X		
		e or endangered aspects of			al heritage.		X				
It has potential to yield in natural and cultural herit		at will contribute to an under	standing of	South Africa's					X		
It is of importance in der natural or cultural places	-	ne principle characteristics o	f a particula	r class of South A	frica's		Х				
It has importance in exh cultural group.	ibiting particu	lar aesthetic characteristics	valued by a	a particular commu	nity or						X
It has importance in den particular period.	monstrating a	high degree of creative or te	echnical ach	ievement at a							х
It has marked or special spiritual reasons (sense		with a particular community	or cultural g	roup for social, cul	tural or		Х				
It has strong or special a		ith the life or work of a perso	n, group or	organisation of im	portance in						Х
It has significance throu developed as a tourist d	-	g towards the promotion of	a local socio	ocultural identity a	nd can be						X
It has significance relation	ng to the histo	ory of slavery in South Africa	l.								X
It has importance to the patterns and human occ		tanding of temporal change	s within cult	ural landscapes, s	ettlement				X		
2.2 Field Register Rat	ing										
National/Grade 1 [should	d be registere	ed, retained]									
Provincial/Grade 2 [show	uld be registe	red, retained]									
-	-	, mitigation not advised]									
	•	itigation, partly retained]									X
Generally Protected A [l	_										
Generally protected B [N											
Generally Protected C [I		nce, no further action]									
2.3 Sphere of Significa	ince				High			Mediur	m	Low	
International											
National											
Provincial											
Local					X						
Specific community											
3. IMPACT RATING AN		DN									
3.1 Impact assessmen	t										
		APPROXIMATE DIST									
	NATURE	E OF IMPACT: Historical, A			insic, Asso	ciatio	onal & (Contextu	ıal		
				IMPACT: Local							
		CIALIST LEVEL OF CONF	IDENCE IN	DEGREE OF IMP	ACT AND	SEV	ERITY:	High			
3.2 Impact Significanc	e and Severi	ty		-1							
General assessment o		resource			ithout Man	_			With Ma		
(Refer to Section 7.3.1	,		Duration	Po	ermanent:	High	1		Perman	ent: Lo)W

	Intensity	Local: High	Local: Low	
	Probability	Probable	Improbable	
	Impact Significance	Very High	Negligible	or pulsage
3.3 Direct Impact Rating				

3.3 Direct Impact Rating

Direct impact on resource

None (the potential development does not adversely or positively affect the heritage resource)

Peripheral / Indirect (the heritage resource or its setting is located in proximity to the footprint of the potential development)

Destruction / Direct (the heritage resource or site is physically located within the footprint of the potential development)

Direct impact rating (Refer to Section 7.3.2)

Note that a default "no impact expected" value applies where a heritage resource occurs outside the impact matrix or applicable conservation buffers of the development.

High heritage impact expected.

X

3.4 Recommended Management* (refer to section 7.3.3)

Avoidance & Monitoring / Mitigation

Comments on recommended management

It is recommended that all phase of the the proposed activity be done in such a manner as to avoid the heritage feature or proposed conservation buffer zones. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on.

However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- Exhumation and reburial
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority. .

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

- Site BP05

1. SITE DESCRIPTION							
1.1 General Site Descrip	tion						
		An informal cem	etery containing a	t least 2 graves of v	vhich 1 is marked.		
1.2 Site features / artefac	cts / Other	•					
Site Location							
Province / District	Eastern	Cape Province		Map Number	3029DC		
Farm Name	Ntlamvukazi Commonage		Co-ordinates	\$30.75490)	E29.71848	
Site Type							
Surface sites		X		Caves and rock s	helters		
Larger open-air sites				Sealed sites (dep	osits		
River deposits				Other			
Site Function							
Living / habitation				Kill			
Ceremonial				Burial		X	
Trading / Barter				Art			
Quarry / Mining / Smelting				Other			
Site Placement							
Valley floor		Hill top		Vlei/swamp		River Mo	outh
Dam		River Bank		Slope	X	Plains	
Other / Comments							

Vegetation									asses of the
Riverine forest		Bushveld		Savannah			Mountai	in forest	
Thornveld		Grassland	X	Cultivated	X		Other		
Age Classifica	tion								
Stone Age		Early Iron Age		Middle Iron Age			Later Iro	on Age	
Historical	Х	Other	X - Recent						
Material Cultu	re				ļ				
Midden		House Remains		Stone Walling				tructures	
Granary		Grinding Stone (-	Grinding Stone (-		Granary		
Metal		Ceramics (Potte	ry)	Ceramics (Porce	lain)			non-lithic)	
Metal slag		Tuyere		Fauna			Bead (C		
Bead (OES / SI		Glass		Lithics		X	Smelting	g Residues	
Other: X – grav				Other: X – funer	al goods				
1.3 Site Condi									
Site preservati									
2. SITE EVALU		0 [0]				History		Madicas	I tour
	alue (NHRA, sectio	/	Africa'a biotom	or pro colonial history		High		Medium	Low
		-		or pre-colonial history.	l haritana	X		Χ	
				n Africa's natural or culturating of South Africa's	ii nentage.	^			
natural and cult	tural heritage.							X	
	ce in demonstrating ral places or objects.		teristics of a pa	articular class of South Afr	ica's	X			
It has important cultural group.	ce in exhibiting partion	cular aesthetic chara	ecteristics value	ed by a particular commur	ity or				X
It has important particular period	-	a high degree of cre	ative or technic	cal achievement at a					Х
	or special association s (sense of place).	n with a particular co	mmunity or cul	ltural group for social, cult	ural or	Х			
It has strong or the history of S		with the life or work	of a person, gr	oup or organisation of imp	ortance in				X
	ce through contribut tourist destination.		notion of a loca	al sociocultural identity an	d can be				X
It has significan	ice relating to the his	story of slavery in Sc	outh Africa.						X
	ce to the wider unde iman occupation.	rstanding of tempora	al changes with	nin cultural landscapes, se	ttlement			Х	
2.2 Field Regi	ster Rating								
National/Grade	1 [should be registe	red, retained]							
Provincial/Grad	e 2 [should be regis	tered, retained]							
Local/Grade 3A	(should be registere	ed, mitigation not ad	vised]						
Local/Grade 3E	I [High significance;	mitigation, partly reta	ained]						X
	ected A [High/Mediur								
	cted B [Medium sigr								
	ected C [Low signific	ance, no further acti	on]						
2.3 Sphere of	Significance				High		Medium	L	ow
International									
National									
Provincial									

Local			Х					
Specific communit	у							
3. IMPACT RATIN	IG AND MITIGATION							
3.1 Impact assess	sment							
	APPROXIMATE DIS	STANCE FROM DEVELOP	MENT: 0 - 100N	METERS				
	NATURE OF IMPACT: Historical,	Aesthetic, Social, Scientific	, Intrinsic, Asso	ciational &	Contextu	al		
		EXTENT OF IMPACT: Loc	cal					
	SPECIALIST LEVEL OF COM	NFIDENCE IN DEGREE OF	IMPACT AND	SEVERITY	': High			
3.2 Impact Signifi	cance and Severity							
			Without Management*			With Management*		
	tonound accomment of immosts on manying		Permanent:	High		Permanent: Low		
	eneral assessment of impacts on resource Refer to Section 7.3.1)	Intensity	Local: High	Local: High		Local: Low		
,	,	Probability	Probable		Improbable	Improbable		
		Impact Significance	Very High			Negligible		
3.3 Direct Impact	Rating							
Direct impact	None (the potential development does no	ot adversely or positively aff	ect the heritage	resource)				
on resource	Peripheral / Indirect (the heritage resource	ce or its setting is located in	proximity to the	footprint o	f the pote	ential development)	X	
	Destruction / Direct (the heritage resource	e or site is physically locate	d within the foo	tprint of the	potential	I development)		
Note that a default	ng (Refer to Section 7.3.2) "no impact expected" value applies where a e conservation buffers of the development.	heritage resource occurs o	utside the impa	ct	High h	neritage impact exp	pected.	
3.4 Recommende	d Management* (refer to section 7.3.3)							
	nitoring / Mitigation							
Comments on rec	commended management							

Comments on recommended management

It is recommended that all phase of the proposed activity be done in such a manner as to avoid the heritage feature or proposed conservation buffer zones. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on.

However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- Exhumation and reburial
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority. .

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
 - Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal
- Site BP06

1. SITE DESCRIPTION	1				
1.1 General Site Desc	ription				
	An informal c	emetery containing at least 2 gr	raves, of which 1 is located insi	de a large wooden fenc	e structure.
1.2 Site features / arte	efacts / Other				
Site Location					
Province / District	Eastern	Cape Province	Map Number	3029DC	
Farm Name	Ntlamv	ukazi Commonage	Co-ordinates	S30.75769	E29.72098
Site Type					
Surface sites		X	Caves and rock she	elters	

Larger open-ai	ir sites				Sealed sites (dep	osits				
River deposits					Other					
Site Function										Name and Associated to the Control of the Control o
Living / habita	tion				Kill					10/4
Ceremonial					Burial			X		
Trading / Barte	er				Art					
Quarry / Mining	g / Smelt	ing			Other					
Site Placemen	_									
Valley floor			Hill top		Vlei/swamp			River M	louth	
			River Bank			X		Plains		
Dam			River Bank		Slope	^		Plains		
Other / Comm	ents									
Vegetation	_		1	7				1		
Riverine forest			Bushveld		Savannah			Mounta	in forest	
Thornveld			Grassland	X	Cultivated	X		Other		
Age Classific	ation									'
Stone Age			Early Iron Age		Middle Iron Age			Later In	on Age	
Historical	X		Other	X - Recent				. (- 1	
Material Cultu	ire									
Midden			House Remains	3	Stone Walling			Stone S	Structures	
Granary			Grinding Stone	(L)	Grinding Stone (L	J)		Granar	v Stand	
Metal			Ceramics (Potte		Ceramics (Porcel	·			non-lithic)	
Metal slag			Tuyere	,	Fauna	 ,		Bead (0		
Bead (OES / S	Shell)		Glass		Lithics		X		g Residues	
Other: X – gra	,	ina			Other: X – funera	al annds		0	9	
1.3 Site Cond		y			Outor: X Turiero	ii goods				
		ir to noor a	s the burials are p	rohahly older and	I not maintained					
2. SITE EVAL		ii to poor u	o the bundlo are p	robubly older und	mot mamtamea.					
2.1 Heritage V		UDA soctio	n 2 [2]\				High		Medium	Low
				Africa's history or	pre-colonial history.		riigi		X	LOW
				-	rica's natural or cultura	l haritage	e. X		^	
						THEIIIage	5. A			
natural and cu			hat will contribute to	o an understanding	or South Africa's				X	
			the principle charac	cteristics of a partic	cular class of South Afri	ica's				
natural or cultu		-			, a.a. 0.a00 0. 00a. 7		X			
It has importar cultural group.	nce in ext	nibiting partic	cular aesthetic char	acteristics valued b	oy a particular commun	ity or				х
It has importar particular perio		monstrating a	a high degree of cre	eative or technical	achievement at a					Х
It has marked spiritual reason			with a particular co	ommunity or cultura	al group for social, cultu	ıral or	х			
It has strong o			with the life or work	of a person, group	or organisation of impo	ortance i	n			х
	nce throu	igh contribut	ing towards the pro	motion of a local so	ociocultural identity and	d can be				х
	1.0	na to the his	story of slavery in S	outh Africa.						X
It has significa	nce relati		, ,							
	nce to the	wider under		al changes within o	cultural landscapes, set	ttlement			Х	

Nkantolo Access Road Upgrade: Archaeological in	ipact Assessme	ent Report	188	
National/Grade 1 [should be registered, retained]			¥450	
Provincial/Grade 2 [should be registered, retained]				
Local/Grade 3A [should be registered, mitigation not advised]				III agus
Local/Grade 3B [High significance; mitigation, partly retained]			X	47/
Generally Protected A [High/Medium significance, mitigation]				
Generally protected B [Medium significance, to be recorded]				
Generally Protected C [Low significance, no further action]				
2.3 Sphere of Significance	High	Medium	Low	
International				
National				
Provincial				

3. IMPACT RATING AND MITIGATION

3.1 Impact assessment

Specific community

Local

APPROXIMATE DISTANCE FROM DEVELOPMENT: 0 - 100METERS

Χ

NATURE OF IMPACT: Historical, Aesthetic, Social, Scientific, Intrinsic, Associational & Contextual

EXTENT OF IMPACT: Local

SPECIALIST LEVEL OF CONFIDENCE IN DEGREE OF IMPACT AND SEVERITY: High

3.2 Impact Significance and Severity

		Without Management*	With Management*
	Duration	Permanent: High	Permanent: Low
General assessment of impacts on resource (Refer to Section 7.3.1)	Intensity	Local: High	Local: Low
(construction,	Probability	Probable	Improbable
	Impact Significance	Very High	Negligible

3.3 Direct Impact Rating

Direct impact	
on resource	

None (the potential development does not adversely or positively affect the heritage resource)

Peripheral / Indirect (the heritage resource or its setting is located in proximity to the footprint of the potential development)

X

Destruction / Direct (the heritage resource or site is physically located within the footprint of the potential development)

Direct impact rating (Refer to Section 7.3.2)

Note that a default "no impact expected" value applies where a heritage resource occurs outside the impact matrix or applicable conservation buffers of the development.

High heritage impact expected.

3.4 Recommended Management* (refer to section 7.3.3)

Avoidance & Monitoring / Mitigation

Comments on recommended management

It is recommended that all phase of the proposed activity be done in such a manner as to avoid the heritage feature or proposed conservation buffer zones. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on.

However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- Exhumation and reburial
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority. .

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws
 - National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

Site BP07

1.1 General S	te Descrip	tion									
			The site i	s an informal bu	urial place containing 4 n	narked gr	aves.				
1.2 Site featur	es / artefa	cts / Other									
Site Location											
Province / Dist	rict	Eastern (Cape Province		Map Number 3029DC		С				
Farm Name		Nkantolo	Commonage		Co-ordinates	S	30.76	284	E29.72097		
Site Type											
Surface sites			X		Caves and rock	shelters					
Larger open-ai	r sites				Sealed sites (de	posits					
River deposits					Other						
Site Function											
Living / habita	tion				Kill						
Ceremonial					Burial			Х			
Trading / Barte	r				Art						
Quarry / Mining	g / Smelting	9			Other						
Site Placemer	nt										
Valley floor			Hill top		Vlei/swamp			Rive	er Mouth		
Dam			River Bank		Slope	Х		Pla	ins		
Other / Comme	ents			1							
Vegetation											
Riverine			Bushveld		Savannah			Man	untain forest		
forest			DUSTIVEIU		Savaillali						
Thornveld			Grassland	X	Cultivated	X		Oth	er		
Age Classifica	ation										
Stone Age			Early Iron Age		Middle Iron Age	Middle Iron Age		Late	er Iron Age		
Historical	X		Other	X - Recent							
Material Cultu	re										
Midden			House Remains		Stone Walling				ne Structures		
Granary			Grinding Stone (Grinding Stone (nary Stand		
Metal			Ceramics (Potter	ry)	Ceramics (Porce	elain)			ne (non-lithic)		
Metal slag			Tuyere		Fauna			Bea	ad (Glass)		
Bead (OES / S			Glass		Lithics		X	Sm	elting Residues		
Other: X – gra	ve dressin	g			Other: X – fune	ral goods	;				
1.3 Site Cond	tion										
•		d as the bur	ials are probably	y of recent age).						
2. SITE EVAL											
2.1 Heritage V	alue (NHF	RA, section 2	2 [3])					High	Medium	Low	
					or pre-colonial history.				Х		
					Africa's natural or cultur	al heritag	е.	Х			
It has potential natural and cu			t will contribute to	an understand	ing of South Africa's				X		
It is of importar natural or cultu		-	e principle charac	teristics of a pa	rticular class of South Af	frica's		Х			
It has importar cultural group.	ce in exhib	iting particula	ar aesthetic chara	cteristics value	d by a particular commu	nity or				X	

It has importance particular period.	in demonstrating a high degree of creati	ve or technical achievement at a	1			X
It has marked or s spiritual reasons (pecial association with a particular communication sense of place).	munity or cultural group for socia	ıl, cultural or	х		1 304
It has strong or sp the history of Sout	ecial association with the life or work of th Africa.	a person, group or organisation	of importance in			x
It has significance developed as a to	through contributing towards the promourist destination.	ntion of a local sociocultural ident	tity and can be			X
It has significance	relating to the history of slavery in Sout	h Africa.				Х
It has importance patterns and huma	to the wider understanding of temporal on occupation.	changes within cultural landscap	es, settlement		X	
2.2 Field Registe	r Rating					
National/Grade 1	[should be registered, retained]					
Provincial/Grade 2	2 [should be registered, retained]					
Local/Grade 3A [s	hould be registered, mitigation not advis	sed]				
Local/Grade 3B [H	ligh significance; mitigation, partly retain	ned]				Х
Generally Protecte	ed A [High/Medium significance, mitigation	on]				
Generally protecte	ed B [Medium significance, to be recorde	 ed]				
Generally Protects	ed C [Low significance, no further action	 .]				
2.3 Sphere of Sig	nificance		High	Mediu	m Lo	w
International						
National						
Provincial						
Local			Х			
Specific communit	Ly					
3. IMPACT RATIN	NG AND MITIGATION					
3.1 Impact asses	sment					
	APPROXIMATI	E DISTANCE FROM DEVELOP	MENT: 0 - 100MET	TERS		
	NATURE OF IMPACT: Histo	rical, Aesthetic, Social, Scientific	c, Intrinsic, Associat	ional & Contextu	ıal	
		EXTENT OF IMPACT: Lo	cal			
				VEDITY: Llich		
	SPECIALIST LEVEL OF	CONFIDENCE IN DEGREE OF	IMPACT AND SE	VERILI. HIGH		
3.2 Impact Signif	SPECIALIST LEVEL OF icance and Severity	CONFIDENCE IN DEGREE OF	FIMPACT AND SE	VERITT. High		
3.2 Impact Signif		CONFIDENCE IN DEGREE OF	Without Manag		With Manage	ment*
3.2 Impact Signif		Duration		ement*	With Manage	
General assessm	icance and Severity		Without Manag	ement*		
General assessm	icance and Severity	Duration	Without Manag	ement*	Permanent: I	
General assessm	icance and Severity	Duration Intensity	Without Manag Permanent: High Local: High	ement*	Permanent: L	
General assessm (Refer to Section	nent of impacts on resource 7.3.1)	Duration Intensity Probability	Without Manag Permanent: Hig Local: High Probable	ement*	Permanent: L Local: Low Improbable	
General assessm (Refer to Section 3.3 Direct Impact	nent of impacts on resource 7.3.1)	Duration Intensity Probability Impact Significance	Without Manag Permanent: Hig Local: High Probable Very High	ement* Jh	Permanent: L Local: Low Improbable	
General assessm (Refer to Section 3.3 Direct Impact Direct impact	nent of impacts on resource 7.3.1)	Duration Intensity Probability Impact Significance	Without Manag Permanent: Hig Local: High Probable Very High fect the heritage res	ement* jh source)	Permanent: L Local: Low Improbable Negligible	Low
General assessm (Refer to Section 3.3 Direct Impact Direct impact	nent of impacts on resource 7.3.1) Rating None (the potential development do	Duration Intensity Probability Impact Significance es not adversely or positively aff source or its setting is located in	Without Manag Permanent: Hig Local: High Probable Very High fect the heritage res proximity to the foo	ement* jh source) otprint of the pote	Permanent: L Local: Low Improbable Negligible ential developme	Low
General assessm (Refer to Section 3.3 Direct Impact Direct impact on resource Direct impact rati	nent of impacts on resource 7.3.1) Rating None (the potential development do Peripheral / Indirect (the heritage re-	Duration Intensity Probability Impact Significance ses not adversely or positively afficance or its setting is located in source or site is physically located ere a heritage resource occurs of	Without Manag Permanent: Hig Local: High Probable Very High fect the heritage responsibility to the fooded within the footpring	ement* gh source) otprint of the potential	Permanent: L Local: Low Improbable Negligible ential developme	ent) X
General assessm (Refer to Section 3.3 Direct Impact Direct impact on resource Direct impact rati Note that a defauli matrix or applicabi	nent of impacts on resource 7.3.1) Rating None (the potential development do Peripheral / Indirect (the heritage resource) Destruction / Direct (the heritage resource) ing (Refer to Section 7.3.2) t "no impact expected" value applies where	Duration Intensity Probability Impact Significance ses not adversely or positively afficance or its setting is located in source or site is physically locate ere a heritage resource occurs dent.	Without Manag Permanent: Hig Local: High Probable Very High fect the heritage responsibility to the fooder within the footpring	ement* gh source) otprint of the potential	Permanent: L Local: Low Improbable Negligible ential development	ent) X
General assessm (Refer to Section 3.3 Direct Impact Direct impact on resource Direct impact rati Note that a default matrix or applicable 3.4 Recommende	icance and Severity ment of impacts on resource 7.3.1) Rating None (the potential development do Peripheral / Indirect (the heritage resource) Destruction / Direct (the heritage resource) ing (Refer to Section 7.3.2) t "no impact expected" value applies while conservation buffers of the development	Duration Intensity Probability Impact Significance ses not adversely or positively afficance or its setting is located in source or site is physically locate ere a heritage resource occurs dent.	Without Manag Permanent: Hig Local: High Probable Very High fect the heritage responsibility to the fooder within the footpring	ement* gh source) otprint of the potential	Permanent: L Local: Low Improbable Negligible ential development	ent) X
General assessm (Refer to Section 3.3 Direct Impact Direct impact on resource Direct impact rate Note that a defaul matrix or applicable 3.4 Recommende Avoidance & More	nent of impacts on resource 7.3.1) Rating None (the potential development do Peripheral / Indirect (the heritage resource) Destruction / Direct (the heritage resource) ing (Refer to Section 7.3.2) t "no impact expected" value applies whele conservation buffers of the development and Management (refer to section 7.3.3)	Duration Intensity Probability Impact Significance ses not adversely or positively afficance or its setting is located in source or site is physically locate ere a heritage resource occurs dent.	Without Manag Permanent: Hig Local: High Probable Very High fect the heritage responsibility to the fooder within the footpring	ement* gh source) otprint of the potential	Permanent: L Local: Low Improbable Negligible ential development	ent) X



However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- **Exhumation and reburial**
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority.

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended). Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

Site BP08

1. SITE DESC							
1.1 General S	ite Descri _l						
		A sm	all informal ceme	etery containing marked	2 graves		
1.2 Site featur	res / artefa	icts / Other					
Site Location							
Province / Dist	rict	Eastern Cape Province		Map Number	30290	C	
Farm Name		Nkantolo Commonage		Co-ordinates	\$30.7	6343	E29.72028
Site Type							
Surface sites		X		Caves and rock s	helters		
Larger open-a	ir sites			Sealed sites (dep	osits		
River deposits				Other			
Site Function							
Living / habita	tion			Kill			
Ceremonial				Burial		X	
Trading / Barte	er			Art			
Quarry / Minin	g / Smeltin	g		Other			
Site Placeme	nt						
Valley floor		Hill top		Vlei/swamp		River M	outh
Dam		River Bank		Slope	X	Plains	
Other / Comm	ents						
Vegetation							
Riverine forest		Bushveld		Savannah		Mountai	n forest
Thornveld		Grassland	X	Cultivated	X	Other	
Age Classific	ation						
Stone Age		Early Iron Age		Middle Iron Age		Later Iro	n Age
Historical	X	Other	X - Recent				
Material Cultu	ıre						
Midden		House Remains		Stone Walling		Stone S	tructures
Granary		Grinding Stone (I	L)	Grinding Stone (L	J)	Granary	Stand
Metal		Ceramics (Potter	у)	Ceramics (Porcel	ain)	Stone (r	non-lithic)
Metal slag		Tuyere		Fauna		Bead (G	alass)
Bead (OES / S	Shell)	Glass		Lithics	Х	Smelting	g Residues
Other: X - gra	ve dressir	ng		Other: X – funera	l goods		

1.3 Site Condition Site preservation is good as the burials are probably of recent age. 2. SITE EVALUATION High Medium 2.1 Heritage Value (NHRA, section 2 [3]) Χ It has importance to the community or pattern of South Africa's history or pre-colonial history. Χ It possesses unique, uncommon, rare or endangered aspects of South Africa's natural or cultural heritage. It has potential to yield information that will contribute to an understanding of South Africa's X natural and cultural heritage. It is of importance in demonstrating the principle characteristics of a particular class of South Africa's χ natural or cultural places or objects. It has importance in exhibiting particular aesthetic characteristics valued by a particular community or X cultural group. It has importance in demonstrating a high degree of creative or technical achievement at a X particular period. It has marked or special association with a particular community or cultural group for social, cultural or Х spiritual reasons (sense of place). It has strong or special association with the life or work of a person, group or organisation of importance in X the history of South Africa. It has significance through contributing towards the promotion of a local sociocultural identity and can be Χ developed as a tourist destination. It has significance relating to the history of slavery in South Africa. X It has importance to the wider understanding of temporal changes within cultural landscapes, settlement X patterns and human occupation. 2.2 Field Register Rating National/Grade 1 [should be registered, retained] Provincial/Grade 2 [should be registered, retained] Local/Grade 3A [should be registered, mitigation not advised] Local/Grade 3B [High significance; mitigation, partly retained] Χ Generally Protected A [High/Medium significance, mitigation] Generally protected B [Medium significance, to be recorded] Generally Protected C [Low significance, no further action] 2.3 Sphere of Significance Medium High International National Provincial Local Х Specific community 3. IMPACT RATING AND MITIGATION 3.1 Impact assessment APPROXIMATE DISTANCE FROM DEVELOPMENT: 0 - 100METERS NATURE OF IMPACT: Historical, Aesthetic, Social, Scientific, Intrinsic, Associational & Contextual **EXTENT OF IMPACT:** Local SPECIALIST LEVEL OF CONFIDENCE IN DEGREE OF IMPACT AND SEVERITY: High 3.2 Impact Significance and Severity Without Management* With Management* Duration Permanent: High Permanent: Low General assessment of impacts on resource Local: High Local: Low Intensity (Refer to Section 7.3.1) **Probable** Improbable Probability Impact Significance Very High Negligible

Comments on recommended management

It is recommended that all phase of the proposed activity be done in such a manner as to avoid the heritage feature or proposed conservation buffer zones. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on.

However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- Exhumation and reburial
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority.

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

- Site BP09

1. SITE DESCRIPTION									
1.1 General Site Descrip	tion								
			A single unmarked	grave on a small h	ıill.				
1.2 Site features / artefac	cts / Other								
Site Location									
Province / District	Eastern	Cape Province		Map Number	302	29DC			
Farm Name	Nkantol	lo Commonage		Co-ordinates	S30	29.71868			
Site Type									
Surface sites		X		Caves and rock	shelters				
Larger open-air sites				Sealed sites (dep	osits				
River deposits				Other					
Site Function									
Living / habitation				Kill					
Ceremonial				Burial			Х		
Trading / Barter				Art					
Quarry / Mining / Smelting	1			Other					
Site Placement									
Valley floor		Hill top		Vlei/swamp			River Mouth		
Dam		River Bank		Slope	X		Plains		
Other / Comments									
Vegetation									
Riverine forest		Bushveld		Savannah			Mountain for	rest	

Thornveld			Grassland	X		Cultivated	X			Other			A STATE OF THE STA
Age Classifica	ation												potential (
Stone Age			Early Iron Age			Middle Iron Age				Later I	ron Age		10000
Historical	X		Other	X - Red	cent								
Material Cultu	re												
Midden			House Remains			Stone Walling				Stone	Structures	;	
Granary			Grinding Stone (L)		Grinding Stone (L)			Grana	ry Stand		
Metal			Ceramics (Potter	у)		Ceramics (Porcel	ain)			Stone	(non-lithic))	
Metal slag			Tuyere			Fauna				Bead ((Glass)		
Bead (OES / S	hell)		Glass			Lithics		X		Smelti	ng Residu	es	
Other: X – gra	ve dress	ing				Other: X – funera	l goods						
1.3 Site Condi	tion												
Site preservat	ion is po	or since the	concrete headsto	ne has d	ilapidated.								
2. SITE EVALU	JATION												
2.1 Heritage V	alue (Ni	IRA, section	ı 2 [3])						High		Medium	1	Low
It has importan	ce to the	community o	or pattern of South	Africa's his	story or pre-	-colonial history.					Х		
It possesses u	nique, un	common, rar	e or endangered as	spects of S	South Africa	's natural or cultural	heritage		Х				
It has potential natural and cul			at will contribute to	an under	standing of	South Africa's					х		
It is of importar		-	he principle charac	teristics of	a particula	r class of South Afri	ca's		Х				
It has importan	ce in exh	ibiting particu	ular aesthetic chara	cteristics	valued by a	particular communi	ty or						X
It has importan		nonstrating a	high degree of cre	ative or te	chnical achi	ievement at a							Х
	or special		with a particular co	mmunity o	or cultural gr	roup for social, cultu	ral or		х				
-	special	association w	vith the life or work	of a perso	n, group or	organisation of impo	ortance ir	1					X
,	nce throu	gh contributir	ng towards the pror	notion of a	local socio	ocultural identity and	can be						X
'			ory of slavery in So	uth Africa.									X
It has importan			standing of tempora	al changes	within cultu	ural landscapes, set	tlement				X		
2.2 Field Reg	ister Rat	ing											
National/Grade	1 [shoul	d be registere	ed, retained]										
Provincial/Grad	de 2 [sho	uld be registe	ered, retained]										
Local/Grade 3/	A [should	be registered	d, mitigation not ad	vised]									
Local/Grade 38	3 [High si	gnificance; m	nitigation, partly reta	ained]									X
Generally Prote	ected A [I	High/Medium	significance, mitiga	ation]									
Generally prote	ected B [N	Medium signi	ficance, to be recor	ded]									
Generally Prote	ected C [Low significa	nce, no further acti	on]									
2.3 Sphere of	Significa	ınce					High			Medium	1	Lov	I
International													
National													
Provincial													
Local							X						
Specific comm													
3. IMPACT RA	TING AN	ID MITIGATI	ON										

					SECTION OF SECTION
3.1 Impact assess	sment				44.00
	APPROXIMATE D	DISTANCE FROM DEVELOR	PMENT: 0 - 100METERS		
	NATURE OF IMPACT: Historica	al, Aesthetic, Social, Scientifi	c, Intrinsic, Associational & C	Contextual	0.08000
		EXTENT OF IMPACT: Lo	cal		
	SPECIALIST LEVEL OF C	ONFIDENCE IN DEGREE O	F IMPACT AND SEVERITY:	High	
3.2 Impact Signifi	cance and Severity				
			Without Management*	With Manage	ement*
		Duration	Permanent: High	Permanent:	Low
General assessm (Refer to Section	ent of impacts on resource	Intensity	Local: High	Local: Low	
(Itelel to occion	1.0.1)	Probability	Probable	Improbable	
		Impact Significance	Very High	Negligible	
3.3 Direct Impact	Rating				
Direct impact	None (the potential development does	not adversely or positively af	fect the heritage resource)		
on resource	Peripheral / Indirect (the heritage resor	urce or its setting is located in	proximity to the footprint of	the potential developm	ent) X
	Destruction / Direct (the heritage resou	irce or site is physically locate	ed within the footprint of the p	potential development)	
Note that a default	ng (Refer to Section 7.3.2) "no impact expected" value applies where e conservation buffers of the development	•	outside the impact	High heritage impac	t expected.
3.4 Recommende	d Management* (refer to section 7.3.3)				
Avoidance & Mon	itoring / Mitigation				
Comments on rec	commended management				
	d that all phase of the proposed activity ddition, it is necessary that the site be				nservation

- However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

 Documentation of site.
 - Exhumation and reburial
 - Full social consultation.
 - Possible conservation management and protection measures.
 - Relevant Permitting from Heritage Resources Authority. .

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

- Site BP10

1. SITE DESCRIPTION								
1.1 General Site Descript	tion							
A small informal cemetery containing at least 5 marked graves.								
1.2 Site features / artefacts / Other								
Site Location								
Province / District Eastern Cape Province Map Number 3029DC								
Farm Name	Nkantolo Commonage	Co-ordinates	S30.83117	E29.71950				
Site Type								
Surface sites	X	Caves and rock shelte	ers					
Larger open-air sites		Sealed sites (deposits	;					
River deposits Other								
Site Function								

						•					ACCOUNT OF CASE OF
Living / habitat	tion				Kill						
Ceremonial					Burial			X			
Trading / Barte	r				Art						
Quarry / Mining	J / Smelti	ng			Other						1/47
Site Placemen	ıt										
Valley floor			Hill top		Vlei/swamp			River M	outh		
Dam			River Bank		Slope	X		Plains			
Other / Comme	ents				'						
Vegetation			·								
Riverine forest			Bushveld		Savannah			Mountai	in forest		
Thornveld			Grassland	X	Cultivated	X		Other			
Age Classifica	ition			I.							
Stone Age			Early Iron Age		Middle Iron Age			Later Iro	on Age		
Historical	X		Other	X - Recent	J 3				. 5-	1	
Material Cultu											
Midden			House Remains		Stone Walling			Stone S	Structures		
Granary			Grinding Stone (L)	Grinding Stone (J)		Granary			
Metal			Ceramics (Potter		Ceramics (Porce	·			non-lithic)		1
Metal slag			Tuyere		Fauna	,		Bead (C			
Bead (OES / SI	hell)		Glass		Lithics		X		g Residue:	s	1
Other: X – grav		ina			Other: X – funer	al goods			3	-	
1.3 Site Condi		9			1 0000000						
Site preservat	ion is go	od as the bu	urials are probably	of recent age.							
2. SITE EVALU			,								
2.1 Heritage V		-IRA, section	2 [3])		_		High		Medium		Low
				Africa's history o	r pre-colonial history.				Х		
					Africa's natural or cultura	al heritage). X				
•	•		at will contribute to						.,	=	
natural and cult	-								X		
It is of importan			he principle charact	eristics of a part	ticular class of South Afr	ica's	х				
It has importan	ce in exh	ibiting particu	ılar aesthetic charad	cteristics valued	by a particular commur	ity or					Х
It has importan		nonstrating a	high degree of crea	ative or technica	I achievement at a						Х
	or special		with a particular cor	nmunity or cultu	ıral group for social, cult	ural or	х				
	special	association w	rith the life or work o	of a person, grou	up or organisation of imp	ortance i	n				Х
	nce throu	gh contributir	ng towards the prom	notion of a local	sociocultural identity an	d can be					X
<u>'</u>			ory of slavery in Sou	ıth Africa							Х
	ce to the	wider unders			n cultural landscapes, se	ttlement			X		
2.2 Field Regi		•									
National/Grade			ed retained]								
Provincial/Grad	-	-									
			d, mitigation not adv	isedì							
Local Orace SF	· [SHOUIU	po iogisteiet	2, 111109a0011 1101 auv	ioouj							

	Nkantolo Access Road	Upgrade: Archaeologic	ai impact Asses	sment Rep	ort	
Local/Grade 3B [H	ligh significance; mitigation, partly retain	ned]			X	1800500
Generally Protecte	ed A [High/Medium significance, mitigati	on]				
Generally protecte	ed B [Medium significance, to be recorde	ed]				
Generally Protecte	ed C [Low significance, no further action]				1/1/
2.3 Sphere of Sig	nificance		High	Mediu	m Low	
International						
National						
Provincial						
Local			X			
Specific communit	ty					
3. IMPACT RATIN	IG AND MITIGATION					
3.1 Impact assess	sment					
	APPROXIMATI	E DISTANCE FROM DEVELOR	PMENT: 0 - 100METE	RS		
	NATURE OF IMPACT: Histo	rical, Aesthetic, Social, Scientifi	c, Intrinsic, Associatio	nal & Contextu	ıal	
		EXTENT OF IMPACT: Lo	ocal			
	SPECIALIST LEVEL OF	CONFIDENCE IN DEGREE O	F IMPACT AND SEV	ERITY: High		
3.2 Impact Signif	icance and Severity					
			Without Manager	ment*	With Management	*
		Duration	Permanent: High	l	Permanent: Low	
General assessm (Refer to Section	nent of impacts on resource	Intensity	Local: High		Local: Low	
(110101 10 00011011		Probability	Probable		Improbable	
		Impact Significance	Very High		Negligible	
3.3 Direct Impact	Rating					
Direct impact	None (the potential development do	es not adversely or positively a	fect the heritage reso	urce)		
on resource	Peripheral / Indirect (the heritage re-	source or its setting is located in	n proximity to the foot	print of the pote	ential development)	X
	Destruction / Direct (the heritage res	source or site is physically locat	ed within the footprint	of the potentia	Il development)	
Note that a default	ing (Refer to Section 7.3.2) t "no impact expected" value applies who	•	outside the impact	High I	heritage impact expe	cted.

matrix or applicable conservation buffers of the development. 3.4 Recommended Management* (refer to section 7.3.3)

Avoidance & Monitoring / Mitigation

Comments on recommended management

It is recommended that all phase of the the proposed activity be done in such a manner as to avoid the heritage feature or proposed conservation buffer zones. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on.

However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- Exhumation and reburial
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority.

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

- Site BP11

1. SITE DESCI		ntion							
1.1 General Si	te Descrip		comotory conta	ning the remains of at leas	ot 2 mars	kod grava	nc		
1.2 Site feature	oo l outofo		cernetery contai	ining the remains of at leas	sı∠ mare	rkeu grave	ъ.		
Site Location	es r artera	Cis-/ Other							
Province / Distr	int	Egotorn Come President		Man Number	20	2000			
	ICL	Eastern Cape Province		Map Number		29DC		F20 7000	Λ.
Farm Name		Nkantolo Commonage		Co-ordinates	53	0.83619		E29.7230	U
Site Type		V							
Surface sites	**	X		Caves and rock sh					
Larger open-air	sites			Sealed sites (depo	OSITS				
River deposits Site Function				Other					
				IZIII					
Living / habitat	ion			Kill			V		
Ceremonial	•			Burial			X		
Trading / Barte Quarry / Mining		<u> </u>		Other					
Site Placemen		9		Other					
Valley floor		Hill top		Vlei/swamp			River		
Dam		River Bank		Slope	X		Plains		
Other / Comme	ents								
Vegetation									
Riverine forest		Bushveld		Savannah			Mount	ain forest	
Thornveld		Grassland	X	Cultivated	X		Other		
Age Classifica	ition								
Stone Age		Early Iron Age		Middle Iron Age			Later I	ron Age	
Historical	X	Other	X - Recent						
Material Cultu	re								
Midden		House Remains		Stone Walling			Stone	Structures	
Granary		Grinding Stone (L)	Grinding Stone (U))		Grana	ry Stand	
Metal		Ceramics (Potter	y)	Ceramics (Porcela	ain)		Stone	(non-lithic)	
Metal slag		Tuyere		Fauna			Bead ((Glass)	
Bead (OES / SI		Glass		Lithics		X	Smelti	ng Residues	
Other: X - grav	e dressir	g		Other: X – funeral	goods				
1.3 Site Condi	tion								
Site preservat	ion is god	d as the burials are probably	y of recent age						
2. SITE EVALU	JATION								
2.1 Heritage V	alue (NHI	RA, section 2 [3])				Hig	h	Medium	Low
It has importan	ce to the c	ommunity or pattern of South A	Africa's history o	or pre-colonial history.				Х	
It possesses ur	nique, uno	ommon, rare or endangered as	spects of South	Africa's natural or cultural	heritage	. Х			
It has potential natural and cult		formation that will contribute to ge.	an understandi	ng of South Africa's				х	
It is of importan		onstrating the principle charactor or objects.	teristics of a par	ticular class of South Afric	a's	х			

It has importance in							
cultural group.	n exhibiting particular aesthetic characteristic	cs valued by a particular cor	mmunity or			X	
It has importance in particular period.	n demonstrating a high degree of creative or	technical achievement at a				х	
It has marked or sp spiritual reasons (s	pecial association with a particular communitence of place).	ty or cultural group for social	l, cultural or	x			
It has strong or spe the history of South	ecial association with the life or work of a per n Africa.	rson, group or organisation of	of importance in			X	
It has significance to developed as a tou	through contributing towards the promotion or rist destination.	of a local sociocultural identi	ty and can be			Х	
It has significance	relating to the history of slavery in South Afri	ica.				X	
It has importance to patterns and huma	o the wider understanding of temporal chang n occupation.	ges within cultural landscape	es, settlement		Х		
2.2 Field Register	r Rating						
National/Grade 1 [s	should be registered, retained]						
Provincial/Grade 2	[should be registered, retained]						
Local/Grade 3A [sh	nould be registered, mitigation not advised]						
Local/Grade 3B [H	igh significance; mitigation, partly retained]					Х	
Generally Protecte	d A [High/Medium significance, mitigation]						
Generally protected	d B [Medium significance, to be recorded]						
Generally Protecte	d C [Low significance, no further action]					Ti-	
2.3 Sphere of Sign	nificance		High	Mediu	m L	_ow	
International							
National							
Provincial							
Local			Х				
Specific community	/						
3. IMPACT RATIN	G AND MITIGATION						
3.1 Impact assess	ment						
3.1 Impact assess		STANCE FROM DEVELOPI	MENT: 0 - 100MET	ERS			
3.1 Impact assess					ual		
3.1 Impact assess	APPROXIMATE DIS		, Intrinsic, Associati		ual		
3.1 Impact assess	APPROXIMATE DIS NATURE OF IMPACT: Historical,	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc	, Intrinsic, Associati	onal & Contexto	ual		
	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF COM	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc	, Intrinsic, Associati	onal & Contexto	ual		
	APPROXIMATE DIS NATURE OF IMPACT: Historical,	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc	, Intrinsic, Associati	onal & Contexto	ual With Manag	gement*	
	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF COM	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc	, Intrinsic, Associati cal IMPACT AND SEV	onal & Contexto /ERITY: High ement*			
3.2 Impact Signific	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF CONcance and Severity ent of impacts on resource	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc NFIDENCE IN DEGREE OF	Intrinsic, Associatical IMPACT AND SEV	onal & Contexto /ERITY: High ement*	With Mana	: Low	
3.2 Impact Signifi	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF CONcance and Severity ent of impacts on resource	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc NFIDENCE IN DEGREE OF Duration	Intrinsic, Associatical IMPACT AND SE Without Manage Permanent: Hig	onal & Contexto /ERITY: High ement*	With Manag	: Low	
3.2 Impact Signific	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF CONcance and Severity ent of impacts on resource	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc NFIDENCE IN DEGREE OF Duration Intensity	Intrinsic, Associatical IMPACT AND SEV Without Manage Permanent: Hig Local: High	onal & Contexto /ERITY: High ement*	With Manage Permanent Local: Low	: Low	
3.2 Impact Signification General assessment (Refer to Section)	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF CONcance and Severity ent of impacts on resource 7.3.1)	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc NFIDENCE IN DEGREE OF Duration Intensity Probability	Mithout Manage Permanent: High Probable	onal & Contexto /ERITY: High ement*	With Manage Permanent Local: Low Improbable	: Low	
3.2 Impact Signification General assessment (Refer to Section and	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF CONcance and Severity ent of impacts on resource 7.3.1)	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc NFIDENCE IN DEGREE OF Duration Intensity Probability Impact Significance	without Manage Permanent: High Probable Very High	/ERITY: High ement*	With Manage Permanent Local: Low Improbable	: Low	
3.2 Impact Signification General assessm (Refer to Section 3.3 Direct Impact Direct impact	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF CONcance and Severity ent of impacts on resource 7.3.1)	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc NFIDENCE IN DEGREE OF Duration Intensity Probability Impact Significance ot adversely or positively affer	without Manage Permanent: Hig Local: High Probable Very High	/ERITY: High ement* h	With Manage Permanent Local: Low Improbable Negligible	: Low	X
3.2 Impact Signification General assessm (Refer to Section 3.3 Direct Impact Direct impact	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF CONcance and Severity ent of impacts on resource 7.3.1) Rating None (the potential development does not	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc NFIDENCE IN DEGREE OF Duration Intensity Probability Impact Significance of adversely or positively affecte or its setting is located in	Mithout Manage Permanent: Hig Local: High Very High ect the heritage reseproximity to the foo	/ERITY: High ement* h ource) tprint of the potential	With Manage Permanent Local: Low Improbable Negligible ential developr	: Low	X
3.2 Impact Signification General assessme (Refer to Section 3.3 Direct Impact Direct impact on resource Direct impact ration (Note that a default)	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF CONcance and Severity ent of impacts on resource 7.3.1) Rating None (the potential development does not Peripheral / Indirect (the heritage resource	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc NFIDENCE IN DEGREE OF Duration Intensity Probability Impact Significance ot adversely or positively affice or its setting is located in the or site is physically located.	Intrinsic, Associational IMPACT AND SEV Without Manage Permanent: Hig Local: High Probable Very High ect the heritage resiproximity to the food within the footpring	/ERITY: High ement* h ource) tprint of the potentia	With Manage Permanent Local: Low Improbable Negligible ential developr	: Low	
3.2 Impact Signification General assessm (Refer to Section 3.3 Direct Impact Direct impact on resource Direct impact ratin Note that a default matrix or applicable	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF CONcance and Severity ent of impacts on resource 7.3.1) Rating None (the potential development does not peripheral / Indirect (the heritage resource Destruction / Direct (the heritage resource (Refer to Section 7.3.2) "no impact expected" value applies where a	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc NFIDENCE IN DEGREE OF Duration Intensity Probability Impact Significance ot adversely or positively affice or its setting is located in the or site is physically located.	Intrinsic, Associational IMPACT AND SEV Without Manage Permanent: Hig Local: High Probable Very High ect the heritage resiproximity to the food within the footpring	/ERITY: High ement* h ource) tprint of the potentia	With Manage Permanent Local: Low Improbable Negligible ential development al development	: Low	
3.2 Impact Signific General assessme (Refer to Section 3.3 Direct Impact Direct impact on resource Direct impact ratin Note that a default matrix or applicable 3.4 Recommende	APPROXIMATE DIS NATURE OF IMPACT: Historical, SPECIALIST LEVEL OF CONcance and Severity ent of impacts on resource 7.3.1) Rating None (the potential development does not peripheral / Indirect (the heritage resource peripheral / Destruction / Direct (the heritage resource peripheral / Indirect / Indirec	Aesthetic, Social, Scientific EXTENT OF IMPACT: Loc NFIDENCE IN DEGREE OF Duration Intensity Probability Impact Significance ot adversely or positively affice or its setting is located in the or site is physically located.	Intrinsic, Associational IMPACT AND SEV Without Manage Permanent: Hig Local: High Probable Very High ect the heritage resiproximity to the food within the footpring	/ERITY: High ement* h ource) tprint of the potentia	With Manage Permanent Local: Low Improbable Negligible ential development al development	: Low	

It is recommended that all phase of the proposed activity be done in such a manner as to avoid the heritage feature or proposed conservation buffer zones. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on.

However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- **Exhumation and reburial**
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority.

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925) Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

Site BP12

1.1 General Site	Description						
		A fend	ed informal ceme	tery containing 5 marked	I graves.		
1.2 Site features	/ artefacts /			, ,			
Site Location							
Province / District	Eas	stern Cape Province		Map Number	3029DC		
Farm Name	Nka	antolo Commonage		Co-ordinates	S30.83825		E29.72349
Site Type							·
Surface sites		X		Caves and rock she	elters		
Larger open-air si	tes			Sealed sites (depos	sits		
River deposits				Other			
Site Function							
Living / habitation	1			Kill			
Ceremonial				Burial		X	
Trading / Barter				Art			
Quarry / Mining / S	Smelting			Other			
Site Placement							
Valley floor		Hill top		Vlei/swamp		River Mo	outh
Dam		River Bank		Slope	X	Plains	
Other / Comments	3		'				,
Vegetation							
Riverine forest		Bushveld		Savannah		Mountair	n forest
Thornveld		Grassland	X	Cultivated	Х	Other	
Age Classification	n						
Stone Age		Early Iron Age		Middle Iron Age		Later Iro	n Age
Historical	X	Other	X - Recent				
Material Culture							
Midden		House Remains		Stone Walling		Stone St	ructures
Granary		Grinding Stone (I	-)	Grinding Stone (U)		Granary	Stand
Metal		Ceramics (Potter	y)	Ceramics (Porcelai	n)	Stone (n	on-lithic)
Metal slag		Tuyere		Fauna		Bead (G	lass)

Bead (OES / Shell)	Glass		Lithics		Х	Smelt	ing Residues	
Other: X – grave dressing			Other: X - fun	eral goods				
1.3 Site Condition								
Site preservation is good as the	e burials are probably of rece	ent age.						1/1/
2. SITE EVALUATION								
2.1 Heritage Value (NHRA, sec					High		Medium	Low
It has importance to the commun	nity or pattern of South Africa's h	istory or pre-c	colonial history.				X	
It possesses unique, uncommon				ural heritage.	X			
It has potential to yield information natural and cultural heritage.	on that will contribute to an unde	rstanding of S	South Africa's				X	
It is of importance in demonstrati natural or cultural places or object	•	of a particular	class of South	Africa's	X			
It has importance in exhibiting pacultural group.	articular aesthetic characteristics	s valued by a p	oarticular comm	nunity or				X
It has importance in demonstration particular period.	ng a high degree of creative or to	echnical achie	evement at a					X
It has marked or special associat spiritual reasons (sense of place	-	or cultural gro	oup for social, c	ultural or	х			
It has strong or special associated the history of South Africa.	on with the life or work of a perso	on, group or o	rganisation of i	mportance in				x
It has significance through contri developed as a tourist destinatio	•	a local socioc	cultural identity	and can be				x
It has significance relating to the	history of slavery in South Africa	a.						Х
It has importance to the wider un patterns and human occupation.		es within cultur	ral landscapes,	settlement			х	
2.2 Field Register Rating								
National/Grade 1 [should be regi	stered, retained]							
Provincial/Grade 2 [should be re	gistered, retained]							
Local/Grade 3A [should be regist	tered, mitigation not advised]							
Local/Grade 3B [High significand	e; mitigation, partly retained]							X
Generally Protected A [High/Med	dium significance, mitigation]							
Generally protected B [Medium s	significance, to be recorded]							
Generally Protected C [Low sign	ificance, no further action]							
2.3 Sphere of Significance				High		Mediur	n	Low
International								
National								
Provincial								
Local				X				
Specific community								
3. IMPACT RATING AND MITIG	ATION							
3.1 Impact assessment								
	APPROXIMATE DIST	ANCE FROM	DEVELOPME	NT: 0 - 100ME	TERS			
NAT	TURE OF IMPACT: Historical, A	esthetic, Soci	al, Scientific, In	trinsic, Associa	ational & (Contextu	al	
	E	EXTENT OF I	MPACT: Local					
	SPECIALIST LEVEL OF CONF	FIDENCE IN D	EGREE OF IN	IPACT AND S	EVERITY	: High		
3.2 Impact Significance and Se	everity							
Company			1	Without Mana	gement*		With Mana	gement*
General assessment of impact (Refer to Section 7.3.1)	s on resource	Duration		Permanent: H	igh		Permanen	
' '		Intensity		Local: High			Local: Lov	V

		Probability Probable		Improbable	HERO III				
		Impact Significance	Very High	Negligible					
3.3 Direct Impact	Rating								
Direct impact None (the potential development does not adversely or positively affect the heritage resource)									
on resource	Peripheral / Indirect (the heritage resource or its setting is located in proximity to the footprint of the potential development)								
	Destruction / Direct (the heritage resource or site is physically located within the footprint of the potential development)								
Direct impact rating (Refer to Section 7.3.2) Note that a default "no impact expected" value applies where a heritage resource occurs outside the impact matrix or applicable conservation buffers of the development. High heritage impact expected matrix or applicable conservation buffers of the development.									
3.4 Recommende	ed Management* (refer to section 7.3.3)								

Avoidance & Monitoring / Mitigation

Comments on recommended management

It is recommended that all phase of the proposed activity be done in such a manner as to avoid the heritage feature or proposed conservation buffer zones. In addition, it is necessary that the site be monitored to ensure that heritage resources are not impacted on.

However, if further impact occurs, or is envisaged at any stage of development and operation the following will be required:

- Documentation of site.
- Exhumation and reburial
- Full social consultation.
- Possible conservation management and protection measures.
- Relevant Permitting from Heritage Resources Authority.

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)
- Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

- Site BP13

1. SITE DESCRIPTION								
1.1 General Site Descript	ion							
		An informal cemet	ery containing at lea	st 2 marked graves	in a homestead yard			
1.2 Site features / artefac	ts / Other							
Site Location								
Province / District	Eastern	Cape Province		Map Number	3029DC			
Farm Name	Nkantol	o Commonage		Co-ordinates	\$30.85288		E29.73997	
Site Type								
Surface sites		X		Caves and rock sh	helters			
Larger open-air sites				Sealed sites (depo	osits			
River deposits				Other				
Site Function								
Living / habitation				Kill				
Ceremonial				Burial		X		
Trading / Barter				Art				
Quarry / Mining / Smelting				Other				
Site Placement								
Valley floor		Hill top		Vlei/swamp		River Mou	uth	
Dam		River Bank		Slope	X	Plains		
Other / Comments								
Vegetation								

Riverine forest		Bush	nveld		Savannah	vannah		Mountain fores	st		
Thornveld		Grassland		X Cultivated X				Other		3.5	
Age Classifica	ation					<u> </u>				The state of the s	
Stone Age		Early	Iron Age			Later Iron Age					
Historical	X	Othe	r	X - Recer	nt			· ·			
Material Cultu	ire			·							
Midden	Midden House Remains Stone Walli							Stone Structure	es		
Granary		Grino	ding Stone (l	_)	Grinding Stone (U	J)		Granary Stand			
Metal		Cera	mics (Potter	y)	Ceramics (Porcel	ain)		Stone (non-lith	ic)		
Metal slag		Tuye	ere		Fauna			Bead (Glass)			
Bead (OES / S	hell)	Glas	s		Lithics		X	Smelting Resid	dues		
Other: X – gra	ve dressin	g			Other: X – funera	l goods					
1.3 Site Cond	ition										
Site preservat	tion is goo	d as the burials a	re probably	of recent a	ige.						
2. SITE EVAL	UATION										
2.1 Heritage V	alue (NHF	RA, section 2 [3])					High	n Mediu	ım	Low	
It has importan	ice to the c	ommunity or patte	rn of South A	Africa's histo	ry or pre-colonial history.			X			
It possesses u	nique, unco	ommon, rare or en	dangered as	pects of Sou	uth Africa's natural or cultura	l heritage	. Х				
It has potential natural and cu	•		contribute to	an understa	nding of South Africa's			х			
It is of importar			ciple charact	eristics of a	particular class of South Afri	ca's	х				
It has importan	ice in exhib	iting particular aes	thetic chara	cteristics val	ued by a particular commun	ity or				х	
It has importar		onstrating a high d	egree of crea	ative or techr	nical achievement at a					х	
It has marked spiritual reason			particular cor	mmunity or c	cultural group for social, cultu	ıral or	х				
	r special as	sociation with the	life or work o	of a person,	group or organisation of impo	ortance ir	1			Х	
	nce through	n contributing towa	irds the pron	notion of a lo	ocal sociocultural identity and	I can be				х	
		to the history of s	lavery in So	uth Africa.						X	
It has importan			g of tempora	l changes w	ithin cultural landscapes, set	tlement		х			
2.2 Field Reg	ister Ratin	g									
National/Grade	1 [should	be registered, reta	ined]								
Provincial/Grad	de 2 [should	d be registered, re	tained]								
Local/Grade 3/	A [should b	e registered, mitig	ation not adv	vised]							
		nificance; mitigatio		-						X	
		gh/Medium signific									
		edium significance		-							
Generally Prot	ected C [Lo	ow significance, no	further action	on]							
2.3 Sphere of	Significan	ce				High		Medium	Lov	v	
International											
National											
Provincial											
Local						X					

Specific community	1				¥10005						
3. IMPACT RATIN	G AND MITIGATION										
3.1 Impact assess	ment										
	APPROXIMAT	E DISTANCE FROM DEVELOP	MENT: 0 - 100M	ETERS							
	NATURE OF IMPACT: Histo	orical, Aesthetic, Social, Scientific	c, Intrinsic, Assoc	iational & Contexto	ual						
		EXTENT OF IMPACT: Lo	cal								
	SPECIALIST LEVEL OF	F CONFIDENCE IN DEGREE OF	IMPACT AND S	SEVERITY: High							
3.2 Impact Signifi	cance and Severity										
			Without Mana	agement*	With Management	*					
		Duration	Permanent: H	ligh	Permanent: Low						
General assessm (Refer to Section	ent of impacts on resource	Intensity	Local: High		Local: Low						
(Neier to Section	1.0.1)	Probability	Probable		Improbable						
		Impact Significance	Very High		Negligible						
3.3 Direct Impact	Rating										
Direct impact	None (the potential development does not adversely or positively affect the heritage resource)										
on resource	Peripheral / Indirect (the heritage re	Peripheral / Indirect (the heritage resource or its setting is located in proximity to the footprint of the potential development)									
	Destruction / Direct (the heritage resource or site is physically located within the footprint of the potential development)										
Note that a default	ng (Refer to Section 7.3.2) "no impact expected" value applies whe conservation buffers of the developm	_	outside the impac	t High	heritage impact expe	cted.					
3.4 Recommende	d Management* (refer to section 7.3	.3)									
Avoidance & Mon	itoring / Mitigation										
Comments on rec	ommended management										
buffer zones. In a However, if furthe - Docur - Exhur	d that all phase of the proposed act ddition, it is necessary that the site or impact occurs, or is envisaged at nentation of site. nation and reburial ocial consultation.	be monitored to ensure that he	eritage resource	s are not impacte	d on.	ation					
	bcial consultation. ble conservation management and p	protection measures									

4. APPLICABLE LEGISLATION AND LEGAL REQUIREMENTS

- Human Tissue Act (Act 65 of 1983 as amended).
- Removal of Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925)
- Ordinance on Excavations (Ordinance no. 12 of 1980)

Relevant Permitting from Heritage Resources Authority.

- Local and regional provisions, laws and by-laws
- National Heritage Resources Act (Act no. 25 of 1999)
- Permit from SAHRA for removal

7.4 Discussion: Evaluation of Results and Impacts

Previous studies conducted in the larger Eastern Cape area suggest a rich and diverse, yet relatively understudied archaeological landscape and cognisance should be taken of archaeological material that might be present in surface and sub-surface deposits.

Sites dating to the **Historical / Colonial Period** in occur in the study area.

The remains of two small historical settlements / family unit dwellings near other homesteads in the Ntlamvukazi area (Site HP01 & Site HP03) are of medium-low significance due to poor preservation of the sites. The sites are located in the vicinity the proposed road upgrade impact zone and the impact on the sites by the proposed activity is expected to be peripheral and permanent where in essence, the impact might result the potential damage / loss of the sites. The significance of the impact on the

heritage resources is considered to be MODERATE but the threshold of the impact can be limited to a NEGLIBLE impact by the implementation of mitigation measures (avoidance, conservation, documentation, monitoring) for the sites, if / when required.

- Historical houses and structures at two sites in the Nkantolo landscape (Site HP02 & Site HP07) are considered to be of medium significance as the sites might yield an understanding of the recent occupational and social history of the area, as well as historical architectural and settlement developments in the larger landscape. The sites are located in the vicinity the proposed road upgrade impact zone and the impact on the site by the proposed activities is expected to be peripheral and permanent where in essence, the impact might result the potential damage / loss of the sites. The significance of the impact on the heritage resources is considered to be MODERATE but the threshold of the impact can be limited to a NEGLIBLE impact by the implementation of mitigation measures (avoidance, conservation, documentation, monitoring) for the sites, if / when required.
- The OR Tambo Garden of Remembrance at the northern offset of the Nkantolo access road (Site HP04) and the historical Ludeke Methodist Mission complex (Site HP06) north of Ludeke are situated in the general vicinity of the proposed road upgrade impact zone and impact on the sites, if any, is expected to be peripheral and of permanent duration where in essence, the impact might result the potential damage / loss of the sites. However, the sites are of heritage priority and the significance of the impact on the heritage resources is considered to be HIGH but the threshold of the impact can be limited to a NEGLIBLE impact by the implementation of mitigation measures (avoidance, conservation, documentation, monitoring) for the sites, if / when required.
- The OR Tambo homestead (Site HP05), situated 2km south of the Garden of Remembrance at Mdikisweni, occurs some distance away from the proposed road upgrade and as such, the impact on the site by the proposed activity is considered to be none. Even though the site is of heritage priority, the significance of the impact on the heritage resources is considered to be NEGLIBLE, and this rating is expected to remain unchanged by the implementation of mitigation measures (avoidance, conservation, documentation, monitoring) for the sites, if / when required.

Graves are generally protected and are of high significance. This applies to all informal cemeteries and burial places identified in the study area. In addition, one should also consider that burial places functions as place of "Living Heritage". Here, "Living Heritage" can broadly refer to a place of cultural heritage and sacred nature; with cultural attributions that are not generally physically manifested. This said, due cognisance should be taken of the value and intrinsic symbolic power of cemeteries as site of "Living Heritage" in the Nkantolo area.

The thirteen individual burial grounds identified along proposed Nkantolo road upgrade project (Site BP01 - Site BP13) are of high heritage sensitivity a high significance rating. Since the burials all occur in the general vicinity of the proposed road upgrade impact zone, impact on the sites, if any, is expected to be peripheral and of permanent duration where in essence, the impact might result the potential damage / loss of the graves. The significance of the impact on the heritage resources is considered to be HIGH but the threshold of the impact can be limited to a NEGLIBLE impact by the implementation of mitigation measures (avoidance, conservation, documentation, monitoring) for the sites, if / when required.

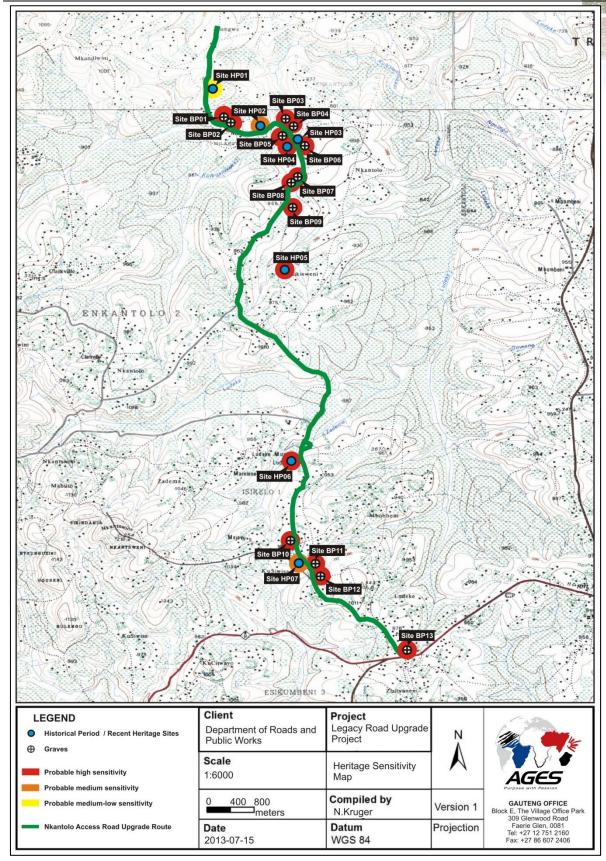


Figure 7-1: Heritage Sensitivity map for the Nkantolo Road Upgrade Project area.

Table 1: Impact assessment matrix for the Nkantolo Road Upgrade Project during the Pre-Construction, Construction, Operation and Closure Phases. Unique weight values are indicated below matrix.

Site	Activity	Impact	P	D	s	M/S	Sigr	ificance Before Mitigation		Mitigation Measures	P	D	s	M/S		Significance
Pre-Construction, Construction, Operation and Closure											Pre-Cons	truction and C	onstruction Ph	ase		
HP01 & HP03	Pre-Construction, Construction, Operation and Closure	Loss of Heritage Resource and Attributes	4	5	2	6	52	Moderate		Avoidance & Conservation	1	1	2	2	5	Negligible
HP02 & HP07	Pre-Construction, Construction, Operation and Closure	Loss of Heritage Resource and Attributes	4	5	2	6	52	Moderate		Avoidance & Conservation	1	1	2	2	5	Negligible
HP04	Pre-Construction, Construction, Operation and Closure	Loss of Heritage Resource and Attributes	4	5	3	8	64	High		Avoidance & Conservation	1	1	3	2	6	Negligible
HP05	Pre-Construction, Construction, Operation and Closure	Loss of Heritage Resource and Attributes	1	5	3	8	64	Negligible		Avoidance & Conservation	1	1	3	2	6	Negligible
HP06	Pre-Construction, Construction, Operation and Closure	Loss of Heritage Resource and Attributes	4	5	3	8	64	High		Avoidance & Conservation	1	1	3	2	6	Negligible
BP01- BP13	Pre-Construction, Construction, Operation and Closure	Loss of Heritage Resource and Attributes	4	5	3	8	64	High		Avoidance & Conservation	1	1	3	2	6	Negligible

Aspect	Description	Weight	Aspect	Description	Weight	Aspect	Description	Weight	Aspect	Description	Weight	Aspect	Description	Weight
Probability	Improbable	1	Duration	Short term	1	Scale	Local	1	Magnitude/Severity	Low	2	Significance	Sum(Duration, Scale, Magnitude) x Probability	
	Probable	2		Medium term	3		Site	2		Medium	6		Negligible	<20
	Highly Probable	4		Long term	4		Regional	3		High	8		Low	<40
	Definite	5		Permanent	5								Moderate	<60
													High	>60

8 RECOMMENDATIONS

The larger landscape around Nkantolo is rich in pre-historical and historical remnants. Cognisant of this historically significant landscape and the need for the conservation of its heritage resources, the following recommendations are made based on general observations in the Nkantolo Road Upgrade Project area:

- Fossilized material have been observed in the larger region and utmost care should be taken not to destroy previously undetected palaeontological resources. Should fossil remains such as fossil fish, reptiles or petrified wood be exposed during construction, these objects should carefully safeguarded and the relevant heritage resources authority (SAHRA) should be notified immediately so that the appropriate action can be taken by a professional palaeontologist.
- The remains of two small historical settlements at **Site HP01** & **Site HP03** are of medium-low significance due to poor preservation of the sites and it is recommended that any activities pertaining to the road upgrade development in the area be monitored in order to avoid any possible impact sites of significance in the area. Historical period remnants in the form of old western house structures (**Site HP02** & **Site HP07**) in the vicinity of the Nkantolo access road is of medium significance and it is recommended that any activities pertaining to the road upgrade development in the area be monitored in order to avoid any possible impact on the sites. However, should the structures be directly impacted by development activities, it is recommended that the sites be recorded and that the larger cultural and social context of the structures be established by means of a desktop study. Any alteration of the structures will require a destruction permit from the relevant heritage resources authority (SAHRA).
- The OR Tambo Garden of Remembrance at the northern offset of the Nkantolo access road (Site HP04) and the historical Ludeke Methodist Mission complex (Site HP06) north of Ludeke are of high heritage significance and it is recommended that the sites be avoided and any activities pertaining to the road upgrade development in the area be monitored in order to avoid any possible impact on the sites. The OR Tambo homestead (Site HP05), situated 2km south of the Garden of Remembrance at Mdikisweni, occurs some distance away from the proposed road upgrade. The site of if high heritage significance and is recommended that any activities pertaining to the road upgrade development that might occur near the homestead area be monitored in order to avoid possible impact on the site.
- Thirteen individual burial grounds identified along proposed Nkantolo road upgrade project (Site BP01 Site BP13) are of high heritage sensitivity and it is primarily recommended that all activities pertaining to the road upgrade be conducted in such a way as to avoid impact on the graves. In addition, a conservation buffer zone of at least 20m around the graves, as well as the fencing off of all cemeteries and graves are recommended. However, should the graves or the proposed 20m buffer zone inevitably be impacted in any way by the planned activities, full grave relocations are recommended for these burial grounds. This measure should be undertaken by a qualified archaeologist, and in accordance with relevant legislation and subject to any local and regional provisions and laws and by-laws pertaining to human remains. A full social consultation process should occur in conjunction with the mitigation of cemeteries and burials. As burial locations in this area follow a general (and fairly common) pattern where graves occur within the context of homestead complexes, utmost care should be taken during construction in occupation areas, not to disturb previously undetected burials.
- Due cognisance should be taken of the larger palaeontological, archaeological and historical landscape of the area in order to avoid the destruction of previously undetected heritage sites in the area. Here, care should be taken around sandstone outcrops and rock faces, as rock art is known to occur on such features. Water sources such as drainage lines, springs and pans should also be regarded as

- potentially sensitive in terms of possible Stone Age deposits. The existence of Historical Period and recent resources deriving from the area's contemporary farming history should also be considered.
- A careful watching brief monitoring process is recommended for all stages of construction and infrastructure development. Should any subsurface paleontological / archaeological / historical material be exposed during construction activities, all activities should be suspended and the archaeological specialist should be notified immediately

In addition to these site-specific recommendations, careful cognizance should be taken of the following:

- Archaeological traces of Iron Age settlements in this area are sometimes ephemeral unless the characteristic stone-wall towns are identified or surface scatters of thick-walled pottery.
- Rock art is known to exist in sandstone overhangs and rock faces in the larger landscape. Such
 geological features occur in the landscape but no rock art or markings were identified. Such sandstone
 outcrops and rock faces should nonetheless be regarded as potentially sensitive in terms of rock
 markings.
- Water sources such as drainage lines, fountains and pans would often have attracted human activity in the past. As Stone Age material seems to originate from below present soil surfaces in eroded areas, the larger landscape should be regarded as potentially sensitive in terms of possible subsurface deposits.
- As Palaeontological remains occur where bedrock has been exposed, such geological features should be regarded as sensitive in terms of impacts on fossilized resources.
- The Nkantolo area has been occupied for many centuries, and bears resemblance to important life events of historical figures. As such, places of "Living Heritage" might be present in the landscape. Here, "Living Heritage" can broadly refer to a place of cultural heritage and sacred nature; with cultural attributions that are not generally physically manifested. Such places might include initiation sites, places of ritual seclusion, old farmsteads, ritual graves and specific meeting areas. These sites and possible material residues thereof convey an intangible cultural significance beyond the site, shelter or object, where the meaning speaks directly of a sense of place and lived experience. Therefore, Historical period and recent material culture and structures should be regarded as potentially sensitive in terms of the tangible and intangible value of such resources.

9 GENERAL COMMENTS AND CONDITIONS

This AIA report serves to confirm the extent and significance of archaeological material at the site of the proposed Nkantolo Road Upgrade Project. In addition to heritage resources occurring here, the larger Eastern Cape encompasses a rich and diverse archaeological landscape and cognisance should be taken of heritage resources and archaeological material that might be present in surface and sub-surface deposits. If, during construction, any possible archaeological material culture are made, the operations must be stopped and a qualified archaeologist be contacted for an assessment of the find. Such material culture might include:

- Formal Earlier Stone Age stone tools such as handaxes, choppers and cleavers.
- Formal Middle Stone Age stone tools such as points, blades and scrapers.
- Formal Later Stone Age stone tools such a microlithic blades, points and scrapers.
- Lithic residues and debris such as stone cores and flakes.
- Decorated and undecorated potsherds.

- Iron objects.
- Beads made from ostrich eggshell and glass.
- Ash middens and cattle dung deposits and accumulations.
- Animal bones and faunal remains.
- Human remains/graves.
- Stone walling or any sub-surface structures.
- Historical glass, tin or ceramics.
- Fossils.

If such site were to be encountered or impacted by any proposed developments, recommendations contained in this report, as well as endorsement of mitigation measures as set out by SAHRA, the National Resources Act and the CRM section of ASAPA will be required. Please note that this report is an archaeological scoping study only and does not include or exempt other required heritage impact assessments.

It must be emphasised that the conclusions and recommendations expressed in this archaeological heritage sensitivity investigation are based on the visibility of archaeological sites/features and may not therefore, represent the area's complete archaeological legacy. Many sites/features may be covered by soil and vegetation and might only be located during sub-surface investigations. If subsurface archaeological deposits, artefacts or skeletal material were to be recovered in the area during construction activities, all activities should be suspended and the archaeological specialist should be notified immediately (cf. NHRA (Act No. 25 of 1999), Section 36 (6)).

It must also be clear that Archaeological Specialist Reports will be assessed by the relevant heritage resources authority. The final decision rests with the heritage resources authority, which should give a permit or a formal letter of permission for the destruction of any cultural sites.



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