PROPOSED VOSLOORUS HOSPITAL

ARCHAEOLOGICAL ASSESSMENT



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Reference: Vosloorus Hosp - 001

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EXECUTIVE SUMMARY

existing industries to the management of their Heritage Resources. which only addresses this issue at a glance, and gives guidance to developers and part historic existing operation. 1999), the surveying, capturing and management of heritage resources is an integral As we know from legislation, the National Heritage Resources Act 1999 (Act 25 of of. the greater management plan laid down for This legislation aims to underpin the existing legislation, any major development or

development area During the survey no archaeological or historical sites where found in the proposed

the hospital during the groundbreaking phase, to identify any subsurface cultural material in the area. It is recommended that an archaeologist be appointed to monitor the construction of This type of monitoring constitutes a watching brief.

Matakoma Heritage Consultants can be contacted on the way forward in this regard

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Annexure

Annexure A - Legislation extracts
Annexure B - Map of sites
Annexure C - Coordinates of sites
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1. INTRODUCTION

proposed development. Vosloorus Hospital. This report forms part of the Environmental Impact study for the conduct an Archaeological Assessment on the area earmarked for the new proposed Heritage Consultants was contracted by Jones and Wagener (Pty) Ltd to

provided by he National Heritage Resources Act of 1999 (Act 25 of 1999). the developer in managing the discovered heritage resource in a responsible manner to protect, importance within local, provincial, and national context. The aim of the study is to identify all heritage sites, document, and assess their preserve, and develop the heritage resources within the From this we aim to assist framework

foot and vehicle; and Phase 3: Reporting the outcome of the study. various sources and public consultations; Phase 2: Physical surveying of the area on The report outlines the approach and methodology utilised before which includes in Phase ļ---Archival research, information collection from and during the

finds of cultural material during construction. report outlines the proposed management measures' During the survey, no sites of cultural significance were identified. relating to Section 9 possible chance of this

This report must also be submitted to SAHRA's provincial office for scrutiny.

2. APPROACH AND METHODOLOGY

background history of the area. This was done by means of the following phases The aim of the study is to extensively cover all available data to compile

2.1 Phase 1

The first phase comprised of a desktop study with the aim of gathering data to compile a background history of the area.

2.2 Physical Surveying

ordinates noted. proposed extensive proposed development area was surveyed over one day, by means of vehicle and identify the area were Aerial photographs and 1:50 000 maps of the area were consulted and literature of topographical development area was plotted on 1:50 000 maps, and their GPS surveys studied before undertaking the survey. 35mm photographs on digital film were taken of all the sites found. 9 foot by an archaeologist. areas of possible historic and pre-historic All sites discovered The purpose of this was to activity. inside The the

The sites were mapped with a Garmin Etrex GPS receiver, utilising decimal degrees and WGS84

3. HISTORICAL BACKGROUND OF STUDY AREA

3.1 Stone Age (general)

people of South Africa who mainly relied on stone for their tools The Stone Age is divided in Early; Middle and Late Stone Age and refers to the earliest

stone tools are dominant Early Stone Age: The period from ± 2.5 million yrs - ± 250 000 yrs ago. Acheulean

Voslocrus Proposed Hospital - Archaeological Assessment

Middle Stone Age: yrs before present Various lithic industries in SA dating from \pm 250 000 yrs 1 22 000

with either Iron Age farmers or European colonists Late Stone Age: The period from \pm 22 000-yrs before present to the period of contact

all that remains of these settlements, indicating that these sites were usually transitory. periods were in fact repeatedly inhabited for brief occasions They are usually associated with briefly occupied camps put up for tasks like butchering a Stone Age communities' economic lifestyles are referred to as hunter/gatherer societies. Open-air Stone Age settlements are characterized by thin surface scatters and are often It is believed that caves or rock shelters showing signs of being inhabited for longer

equipment and relied almost solely on a digging stick. beads Age sites are items that have been used for personal adornment like bone and shell butchering to name but a few. societies consists of an array of useful and handy tools like arrow and spear points populations of between 8 and 25 people. The material culture of the different stone using for hunting. Such settlements were much smaller than later agropastrolist settlements and had site Other stone tools were Gathering of edible roots and plants require little specialist designed for cutting, scraping, Other artefacts found on Stone skinning,

3.2 Iron Age (general)

both the Pre-Historic and Historic periods. It can be divided into three distinct periods: The Iron Age as a whole represents the spread of Bantu speaking people and includes

The Early Iron Age: Most of the first millennium AD.

The Middle Iron Age: 10th to 13th centuries AD

The Late Iron Age: 14th century to colonial period.

Iron ore into implements that assisted them in creating a favourable environment to The Iron Age is characterised by the ability of these early people to manipulate and work

back of gold and copper are the occurrence of ore, which is relatively limited compared to copper that have lower melting temperatures and therefore are easier to forge. better living. Iron is a very hard metal to work with compared to gold and

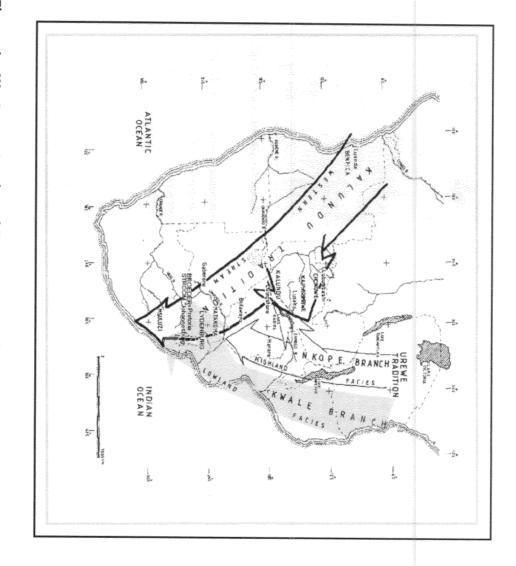
economic way of live. advanced state that permitted the smelting of Copper and Iron directly after a Stone Age where as in Eurasia there was a prolonged Copper and Bronze Age preceding the Iron In Africa, we proceeded technologically directly from the Stone Age in to the Iron Age In southern Africa, metallurgical techniques made their first appearance in a rather

to obtain enough carbon to make it mild steel. If this mild steel was repeatedly heated obtain a sufficiently high temperature for the reduction of the oxide ores, enable the iron furnaces. But the prolonged heating of ore in contact with abundant charcoal, needed to and hammered during the forge process, it will harden. melting point. reduction requires a temperature of at least 1100°C that is 400°C below the metals This scenario provides a strong argument that metallurgical technology was introduced elsewhere and did not develop locally. To effectively smelt iron oxide, To obtain a temperature this high was probably unattainable in ancient

3.2.1 Early Iron Age

mixed farming economy and had the technology to work metals like iron and copper equator and Natal. This change is marked by the appearance of a characteristic ceramic archaeological record of the greater part of eastern and southern Africa lying between the style that belongs to a single stylistic tradition. 5 the first millennium AD, there seem These Early Iron Age people practised a to be a significant change 5

sites that could be expected in the proposed development area preservation of these early sites. distribution of A meaningful interpretation of the Early Iron Age has been hampered by the uneven research conducted so far; this can be partly attributed Figure 1 demonstrates the high frequency of Iron Age to the poor



1989 Figure 1 - Western extension of Eastern Stream into the interior after Huffman

4. WORKING WITH LEGISLATION

Heritage Recourse Act. It is very important that cultural resources be evaluated according to the National In accordance with the Act, we have found the following:

- Section 9 of this document for assessment) Heritage Recourses Act 1999 These sites are classified as important based on evaluation of the National (Act No 25of 1999) section 3 (3). (Refer to
- Act 1999 (Act No 25of 1999) sections 4,5 and 6 and sections 39-47. This site should be managed through using the National Heritage Recourses
- Please refer to Section 9 for Management Guidelines

5. ASSESSMENT CRITERIA

This chapter describes the evaluation criteria used for the sites listed below.

The significance of archaeological sites was based on four main criteria:

- site integrity (i.e. primary vs. secondary context),
- enclosures), amount of deposit, range of features (e.g., stonewalling, stone tools and
- uniqueness and
- potential to answer present research questions.

The site significance rating scale is as follows:

HIGH: Must be mitigated or not impacted on at all.

LOW - MEDIUM: May require further work before development can commence.

NO SIGNIFICANCE: Do not require mitigation.

the impact on the sites, will be expressed as follows: Management actions and recommended mitigation, which will result in a reduction in

- A No further action necessary;
- B Mapping of the site and controlled sampling required;
- Preserve site, or extensive data collection and mapping of the site; and
- D Preserve site

Impacts on these sites by the development will be evaluated as follows

5.1 Impact

The potential environmental impacts that may result from construction activities

5.1.1 Nature and existing mitigation

implemented, against impacts (control, Natural conditions moderate, are considered part of the project design and therefore and conditions curb) impacts. inherent All management actions, which are 3 the project design that presently mitigate alleviate

5.2 Evaluation

5.2.1 Impact Significance

The impact significance rating scale is as follows:

and/or remedial activity would be feasible but difficult, expensive, time-consuming or some combination of these Impacts of a substantial order. In the case of negative impacts, mitigation

combination of these but these would be more difficult, expensive, time-consuming of positive impacts, other means of achieving this benefit would 9 some be

other means of achieving these benefits would be about equal, cost and effort. activity would be both feasible and easily possible. which could occur. MODERATE: Impact would be real but not substantial within the bounds In the case of negative impacts, mitigation and/or In the case of positive impacts remedial

consuming, or some combination of these achieving this impacts, mitigation and/or remedial activity would be either easily achieved or little Impact would be of low order and with little effect. required, benefit would likely be easier, cheaper, more effective, or both. E case of positive impacts, In the case of negative alternative less timemeans of

ways, than this means of achieving the benefit. alternative means would be almost all likely to be better, in one or a number of might be needed, would be easy, cheap and simple. mitigation and/or remedial activity would be needed, and any minor steps, which VERY LOW: Impact would be negligible. In the case of negative impacts, almost no In the case of positive impacts,

the system or any of its parts. NO EFFECT: There would not be any impact at all - not even a very low impact on

5.2.2 Certainty

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

occurring. PROBABLE: Over 70% sure of D particular fact, or of the likelihood of impact

occurring. POSSIBLE: Only over 40% sure of a particular fact or of the likelihood of an impact

occurring. UNSURE: Less than 40% sure 9 Q particular fact or likelihood of, an impact

5.2.3 Duration

SHORT TERM: 0 to 5 years

MEDIUM: 6 to 20 years

LONG TERM: more than 20 years

DEMOLISHED: site will be demolished or is already demolished

Example

Impact Evaluation

	Significance high negative	Certainty > 90% sure	Duration long: > 20 years	Mitigation A
Negative	high negative	> 90% sure	long: > 20 years	D

6. SITES OF SIGNIFICANCE

During the survey no archaeological or historical sites where found in the proposed development area.

consisting largely of maze and pumpkins. dumping ground for building rubble as well as small scale subsistence farming utillised as sport The site is devided into two by a residential road. The western section is currently and recreational fields, while the eastern section is utilised as

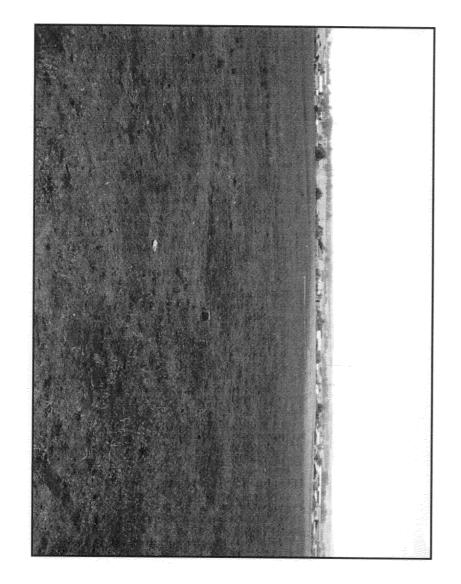


Figure 2 – General Site plan of western section of site.

7. ASSUMPTIONS AND LIMITATIONS

of development. agency should further cultural remains be unearthed or laid open during the process as possible, the survey. possibility remains that some cultural remains may not have been discovered during Due to the nature of cultural remains that occur, in most cases, below surface, the Although Matakoma Heritage Consultants surveyed the area as thorough it is incumbent upon the developer to inform the relevant heritage

8. LEGAL AND POLICY REQUIREMENTS

worthy places, a permit is required to alter or demolish any structure older than 60 are formally protected years. In areas where there has not yet been a systematic survey to identify conservation This will apply until a survey has been done and identified heritage resources

disturb them. Archaeological and palaeontological sites, materials, and meteorites are the source of understanding of the evolution of the earth, life on earth and the history of In the new legislation, permits are required to damage, People who already possess material are required to register it destroy, alter or

The and, if necessary, rescued and this means that before development takes place heritage resources are assessed management of heritage resources are integrated with environmental resources

areas), are protected. are older than 60 years and are not in a cemetery (such as ancestral graves In addition to the formal protection of culturally significant graves, all graves, which interest in the graves: The legislation protects the interests of communities they may be consulted before any disturbance in rural

be identified, cared for, protected and memorials erected in their honour. The graves of victims of conflict and those associated with the liberation struggle will

to be stopped if a heritage resource is discovered developers will be able to proceed without uncertainty about whether work will have authority and if there is reason to believe that heritage resources will be affected, an Anyone who intends to undertake a development must notify the heritage resource assessment report must be compiled at the developer's

deems it necessary to control, may be declared a heritage object, including specific or generic, that is part of the national estate and the export of which SAHRA An object or collection of objects, or a type of object or a list of objects, whether According to the National Heritage Act (Act 25 of 1999 section 32) it is stated that:

- objects recovered archaeological and palaeontological objects, meteorites and rare geological specimens from the soil or waters of South Africa, including
- visual art objects;
- military objects;
- numismatic objects;
- objects of cultural and historical significance;
- living heritage; objects to which oral traditions are attached and which are associated with
- objects of scientific or technological interest;
- archives; and Act, 1996 (Act No. 43 of 1996), or in a provincial law pertaining to records or records as defined in section 1 (xiv) of the National Archives of South Africa material, film or video or sound recordings, excluding those that are records, documents, photographic positives and negatives, graphic
- any other prescribed category.

Heritage Act (Act 25 of 1999 Sections 31-38) are included in Appendix 2. S necessary to refer to any of the above-mentioned objects, the National

remains, including graves and human remains. made that deal with, and offer protection, to all historic and pre-historic Under the new National Heritage Resources Act (Act No. 25 of 1999), provisions are cultural

Graves and Dead Bodies Ordinance (Ordinance no. 7 of 1925) as well as the younger than 60 years fall under Section 2(1) of the Removal of

Tissues Act). relocation should be authorised under Section 24 of Act 65 of 1983 (Human order to handle and transport human remains the institution conducting the local and regional provisions, laws and by-laws must also be adhered to. relevant local or regional council to where the grave is being relocated. relevant local or regional council where the grave is situated, as well as the Authorisation for exhumation and reinterment must also be obtained from the Government and Planning or in some cases the MEC for Housing and Welfare must be submitted for final approval to the Office of the relevant Provincial Human Tissues Act (Act 65 of 1983) and are the jurisdiction of the National Department of Health and the relevant Provincial Department of Health and This function is usually delegated to the Provincial MEC for Local

required and all regulations, laws and by-laws set by the cemetery authority cemetery but is to be relocated to one, permission from the local authority is the same authorisation as set out for graves younger than 60 years over and cemetery administrated by a local authority. Graves in the category located must be adhered to. inside a formal cemetery administrated by a local authority will also require applicable to graves older than 60 years that are situated outside a formal Regarding Burial Grounds and Graves (Section 36(5) of Act 25 of 1999) is Heritage Tissues Act (Act 65 of 1983) and are the jurisdiction of the South African of Act 25 of 1999 (National Heritage Resources Act) as well as the Human Graves older than 60 years, but younger than 100 years fall under Section 36 SAHRA authorisation. Resource Agency (SAHRA). If the grave is not situated inside The procedure for Consultation

Refer to **Annexure A** for further information on legislation.

9. FINDINGS AND RECOMMENDATIONS

9.1 Recommendations

material in the area. This type of monitoring constitutes a watching brief. the hospital during the groundbreaking phase, to identify any subsurface It is recommended that an archaeologist be appointed to monitor the construction of cultural

that is recommended for this project Refer to Annexure D for an outline of the proposed archaeological watching brief

disturbed or destroyed. The programme will result in the preparation of a report and ordered archive. and investigation conducted during any operation carried out for non-archaeological The definition of an archaeological watching brief is a formal program of observation This will be within a specified area or site on land, inter-tidal zone where there S D possibility that archaeological deposits

The purpose of a watching brief is:

- development or other potentially disruptive works archaeological deposits, the allow, within the resources available, 9 established presence and nature of which N S S sufficient accuracy) the preservation by record 5 could not advance be of
- satisfactory and proper standard that an archaeological find has been made for which the resources allocated To provide an opportunity, if needed, for the watching archaeologist to signal to all interested watching parties, before the destruction of the material in brief itself are not sufficient to support treatment to question,
- replace, any requirement for contingent excavation or preservation of possible preservation of known or inferred deposits, and it is intended to guide, not A watching brief is not intended to reduce the requirement for excavation or
- information about the archaeological resource existing on a site objective of ۵ watching brief is to establish and make available

Matakoma Heritage Consultants can be contacted on the way forward in this regard.

9.2 Management Guidelines

- The National Heritage Resources Act (Act 25 of 1999) states that, any person who intends to undertake a development categorised as-
- similar form of linear development or barrier exceeding 300m in length; (a) the construction of a road, wall, powerline, pipeline, canal or
- the construction of a bridge or similar structure exceeding 50m in
- 0 any development or other activity which will change the character of a
- (i) exceeding 5 000m2 in extent; or
- (ii) involving three or more existing erven or subdivisions thereof; or
- consolidated within the past five years; or (iii) involving three or more erven or divisions thereof which have been
- SAHRA or a provincial heritage resources authority; (iv)the costs of which will exceed a sum set in terms of regulations by
- 9 the re-zoning of a site exceeding 10 000m2 in extent; or
- (e) SAHRA or a provincial heritage resources authority, any other category of development provided for in regulations by

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

lodged with them into the necessity for a Heritage Impact Assessment. cultural resources survey, is to be disturbed. The South African Heritage In the event that an area previously not included in an archaeological or Agency (SAHRA) needs to be contacted. An enquiry must be

Ņ In the event that a heritage assessment is required it is advisable to utilise a qualified heritage practitioner preferably registered with the Cultural

Professional Archaeologists (ASAPA). Refer to subsection 8. Resources Management Section (CRM) of the Association of Southern African

This survey and evaluation must include:

- affected; (a) The identification and mapping of all heritage resources in the area
- under section 7 of the National Cultural Resources Act; heritage assessment criteria set out in section (b) an assessment of the significance of such resources in terms of the 9 (2) or prescribed
- an assessment of the impact of the development on such heritage
- derived from the development; resources relative to the sustainable social and economic benefits to be (b) an evaluation of the impact of the development on heritage
- impact of the development on heritage resources; proposed results development and of consultation with communities other interested parties regarding affected by the
- development, the consideration of alternatives; and (f) if heritage resources will be adversely affected by the proposed
- completion of the proposed development. (g) plans for mitigation of any adverse effects during and after the
- ω Et is earthmoving activities. This sections must include basic information on: SHEQ training given to contractors and employees involved in surface advisable that an information section on cultural resources be included in
- a. Heritage
- b. Graves;
- c. Archaeological finds; and
- d. Historical Structures,

This module must be tailor made to include all possible finds that could be expected in that area of construction.

- In the event that archaeologist contacted. activities must be halted in the area of the discovery a possible find is discovered during construction, and a qualified
- Ŋ recommendations towards possible mitigation measures. archaeologist needs to evaluate the finds 0 site and make
- 9 If mitigation is necessary, an application for a rescue permit must be lodged with SAHRA
- 7. such a site be destroyed. After mitigation an application must be lodged with SAHRA for a destruction generated during the rescue excavation. Only after the permit is issue may This application must be supported by the mitigation report
- 00 between the company and the archaeologist must be agreed upon. In the watching brief, timeframes and agreed upon schedules of actions
- 9 In the event that human remain are uncovered or previously unknown graves evaluation of the finds made נם qualified archaeologist needs to be contacted and
- 10. If the remains are to be exhumed and relocated, the relocation procedures as accepted by SAHRA needs to followed. consultation process This includes an extensive social

10. LIST OF PREPARES

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ANNEXURE A Legislation extracts

[36]36 Burial grounds and graves

- section, and it may make such arrangements for their conservation as it sees fit conserve and generally care for burial grounds and graves protected in terms of this (1) Where it is not the responsibility of any other authority, SAHRA must
- memorials associated with the grave referred to in subsection (1), and must maintain such graves which it deems to be of cultural significance and may erect memorials (2) SAHRA must identify and record the graves of victims of conflict and any
- heritage resources authority. (3) (a) No person may, without a permit issued by SAHRA or a provincial
- position or otherwise disturb the grave of a victim of conflict, or any burial ground or part thereof which contains such graves; destroy, damage, alter, exhume or remove from its original
- situated outside a formal cemetery administered by a local authority; or position or otherwise disturb any grave or burial ground older than 60 years which is 9 destroy, damage, alter, exhume, remove from its original
- the detection or recovery of metals. paragraph (a) or (b) any excavation equipment, or any equipment which assists in 0 bring onto or use at a burial ground or grave referred to =
- heritage resources authority the applicant and for the exhumation and re-interment of the contents of such graves, at the cost of for the destruction or damage of any burial ground or grave referred to in subsection (3) (a) unless it is (4) SAHRA or a provincial heritage resources authority may not issue a permit 3 satisfied that the applicant has made satisfactory arrangements accordance with any regulations made by the responsible

- accordance with regulations made by the responsible heritage resources authorityany activity under subsection (3) (b) unless it is satisfied that the applicant has, (5) SAHRA or a provincial heritage resources authority may not issue a permit for 3
- who by tradition have an interest in such grave or burial ground; and made a concerted effort to contact and consult communities and individuals
- 9 future of such grave or burial ground. reached agreements with such communities and individuals regarding the
- responsible heritage resources authoritywith the South African Police Service and in accordance with regulations of the discovery to the responsible heritage resources authority which must, in co-operation which was previously unknown, must immediately cease such activity and report the development or any other activity discovers the location of a grave, the existence of (6) Subject to the provision of any other law, any person who in the course of
- (a) community; and or not such grave is protected in terms of this Act or is of significance carry out an investigation for the purpose of obtaining information on whether to any
- and re-interment of the contents of such grave or, in the absence of such person or 9 community, make any such arrangements as it deems fit. community which is a direct descendant to make arrangements for the exhumation if such grave is protected or is of significance, assist any person who
- this section of public consultation, it believes should be included among those protected under the action of persons connected with the liberation struggle and who died in exile or as a result of submit to the Minister for his or her approval lists of graves and burial grounds of (7) (a) SAHRA must, over a period of five years from the commencement of this Act, State security forces or agents provocateur and which, after a process
- (b) The Minister must publish such lists as he or she approves in the Gazette

- heritage resources authority in terms of this section victims (8) Subject to section 56 (2), SAHRA has the power, with respect to the graves of 9 conflict outside the Republic, to perform any function of a provincial
- of that person in a prominent place in the capital of the Republic negotiations with the next of kin, or relevant authorities, it may re-inter the remains country of victims (9) SAHRA must assist other of conflict connected with the liberation struggle and, following State Departments in identifying graves 3 foreign

[37]37 Public monuments and memorials

register referred to in section 30 Public monuments and memorials must, without the need to publish a notice to this be protected in the same manner as places which are entered in a heritage

[38]38 Heritage resources management

- to undertake a development categorised as-(1) Subject to the provisions of subsections (7), (8) and (9), any person who intends
- (a) form of linear development or barrier exceeding 300m in length; the construction of a road, wall, powerline, pipeline, canal or other similar
- (b) the construction of a bridge or similar structure exceeding 50m in length;
- 0 any development or other activity which will change the character of a site-
- (i) exceeding 5 000m2 in extent; or
- (involving three or more existing erven or subdivisions thereof; or
- (III)consolidated within the past five years; or involving three 9 more erven 9 divisions thereof which have been

- $\widehat{\mathbb{Z}}$ a provincial heritage resources authority; the costs of which will exceed a sum set in terms of regulations by SAHRA or
- (b) the re-zoning of a site exceeding 10 000m2 in extent; or
- (e) provincial heritage resources authority, any other category of development provided for in regulations by SAHRA or a

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

- notification in terms of subsection (1)-(2) The responsible heritage resources authority must, within 14 days of receipt of
- (a) and professional standing in heritage resources management; or an impact assessment responsible heritage resources authority with relevant qualifications and experience person proposing the development, development, notify the person who intends to undertake the development to submit if there is reason to believe that heritage resources will be affected by such report. Such report by а must be compiled at the cost of person or persons approved þγ the the
- 9 notify the person concerned that this section does not apply
- following must be included: provided in a (3) The responsible heritage resources authority must specify the information to be report required in terms of subsection (2) (a): Provided that the
- (a) The identification and mapping of all heritage resources in the area affected;
- **(b)** assessment criteria set out in section 6 (2) or prescribed under section 7; an assessment of the significance of such resources in terms of the heritage
- 0 an assessment of the impact of the development on such heritage resources;

- **a** to the sustainable social and economic benefits to be derived from the development; an evaluation of the impact of the development on heritage resources relative
- (e) on heritage resources; development and other interested parties regarding the impact of the development the results of consultation with communities affected by the proposed
- \odot the consideration of alternatives; and if heritage resources will be adversely affected by the proposed development,
- the proposed development (g) plans for mitigation of any adverse effects during and after the completion of
- authority which must, after consultation with the person proposing the development, decide (4) The report must be considered timeously by the responsible heritage resources
- (a) whether or not the development may proceed;
- (b) any limitations or conditions to be applied to the development;
- 0 protections may be applied, to such heritage resources; what general protections in terms of this Act apply, and what formal
- damaged or destroyed as a result of the development; and 9 whether compensatory action is required in respect of any heritage resources
- (e) of the proposal. whether the appointment of specialists is required as a condition of approval
- subsection resource protected at national level unless it has consulted SAHRA D provincial heritage resources authority shall £ with respect 5 any development which impacts not make any 9 decision under $\boldsymbol{\omega}$ heritage

- (6) The resources authority to the MEC, whoapplicant may appeal against the decision of the provincial heritage
- (a) must consider the views of both parties; and
- (b) may at his or her discretion-
- 3 assessment report and the decision of the responsible heritage authority; and appoint a committee to undertake an independent review of the impact
- (ii) consult SAHRA; and
- (c) must uphold, amend or overturn such decision.
- the authority concerned decides otherwise. subsection (1) affecting any heritage resource formally protected by SAHRA unless (7) The provisions of this section do not apply to a development described in
- authority in terms of subsection (3), and any comments and recommendations of the 1989), that the taken into account prior to the granting of the consent. relevant heritage resources authority with regard to such development have been 1991), or any other legislation: Provided that the consenting authority must ensure Department of Environment Affairs and Tourism, or the Minerals Act, 1991 (Act 50 of resources is required in terms of the Environment Conservation Act, 1989 (Act 73 of subsection (8) The provisions of this section do not apply to a development as described in or the evaluation (1) if an evaluation of the impact of such development on heritage integrated fulfils the environmental management requirements of the relevant heritage guidelines issued resources by the
- place specified in the notice by notice in the Provincial Gazette, exempt from the requirements of this section any (9) The provincial heritage resources authority, with the approval of the MEC, may,

made in terms of section 42 must continue to apply with all other protections in terms of this Part, but any existing heritage agreements other requirements referred to in subsection (8), must be exempted from compliance resources authority in subsection (4) or of the MEC in terms of subsection (6) or (10) Any person who has complied with the decision of a provincial heritage

ANNEXURE B Locality Map



ANNEXURE C TABLE WITH SITE COORDINATES

GPS: Garmin - Etrex

Coordinate System: Decimal Degrees, WGS84

OUTLINE GUIDE FOR AN ARCHAEOLOGICAL WATCHING BRIEF ANNEXURE D

STANDARD AND GUIDANCE - for an Archaeological Watching Brief 1. DEFINITION OF AN ARCHAEOLOGICAL WATCHING BRIEF

The observation and investigation conducted during any operation carried out for nonreport and ordered archive. may be disturbed or destroyed. The programme will result in the preparation of a tidal zone or underwater, where there is a possibility that archaeological deposit archaeological reasons. This will be within a specified area or site on land, interdefinition of an archaeological watching brief is a formal programme of

appropriate archaeological project being designed and implemented, nor do they This definition does not cover chance observations, which should lead to an apply to monitoring for preservation of remains in situ.

2. PURPOSE OF A WATCHING BRIEF

The purpose of a watching brief is:

- To allow, within the resources available, the preservation by record development or other potentially disruptive works archaeological deposits, the presence and nature of which could not be established (or established with sufficient accuracy) in advance of. 9
- treatment to a satisfactory and proper standard. To provide an opportunity, if needed, for the watching archaeologist to signal to all interested parties, before the destruction of the material in question, allocated to the watching brief itself are not sufficient to support that an archaeological find has been made for which the
- not replace, any requirement for contingent excavation or preservation of possible deposits. or preservation of known or inferred deposits, and it is intended to guide, A watching brief is not intended to reduce the requirement for excavation
- The information about the archaeological resource existing on a site. objective of. a watching brief is to establish and make available
- advance of work commencing. An archaeologist shall only undertake a watching brief, which is governed written and agreed specification or project design prepared in
- . geographical area, specification or project design must identify the objectives, and means of dissemination of the results of the

approved in advance by the planning archaeologist or curator. brief/project programme. watching brief, The specification or project design outline and incorporate = one has been set, ۵ method and should conform to the statement must in any and case Work be

elements: The specification or project design should contain, as a minimum, the following

- Non-technical summary
- Site location (including map) and descriptions
- Context of the project
- Geological and topographical background
- Archaeological and historical background
- General and specific aims of fieldwork
- Reference to relevant legislation
- Field methodology
- Collection and disposal strategy for artefacts and ecofacts
- Arrangement for immediate conservation of artefacts
- Post-fieldwork methodology
- Report preparation (method)
- Publication and dissemination proposals
- Copyright
- Archive deposition
- Timetable
- Staffing
- Health & safety considerations
- Monitoring procedures
- Contingency arrangements (if appropriate)

3. FIELDWORK

- project design. All relevant parties must agree to any variations in writing before work commences. All work must conform to the agreed specification or All relevant parties must agree to the specification and/or project design
- and etc) 3.2 must be used to enable the project to achieve its aims, the desired quality timetable, and Sufficient and appropriate resources (staff, equipment, accommodation comply with all statutory requirements. Any contingency

undertaking the work to define appropriate staff levels. elements must be clearly identified and justified. It is the role of the archaeologist

- demonstrably fit for the defined purpose(s). techniques used nust comply with relevant legislation
- and Section of the South African Association of Archaeologists (CRM Section of SA3). preferably experienced for their project roles, and employed in line with relevant legislation IFA by-laws (see Appendix 6). The site director All staff, including be a Principal Inspector with the Cultural Resources Management subcontractors, must be suitably qualified and/or manager should and
- methodologies of the project. All equipment must be suitable for the purpose and recommendations bunos required All staff, including subcontractors, must be fully briefed and aware of the condition and comply with Health and Safety regulations under the specification, and must understand the aims and
- 3.6 elements must be clearly identified and justified. It is the role of the archaeologist undertaking the work to define appropriate staff levels. and timetable, and to comply with all statutory requirements. etc) must be used to enable the project to achieve its aims, the desired quality Sufficient and appropriate resources (staff, equipment, accommodation Any contingency
- stored in a separate location. appropriate environment, and be regularly copied or backed up, and copies sheets as applicable. Digital records created, as part of the project should comply appropriate) should be made for all work, using pro forma record specified Full and proper records (written, graphic, electronic and photographic paper and photographic records should be stored in a data standards. An archaeologist must ensure that digital secure forms and
- and techniques must be fit for the defined purpose, and understood by all staff and subcontractors Artefact and environmental data collection and discard policies, strategies
- undertaking fieldwork must do so under a defined Health and Safety Policy Health and Safety will take priority over archaeological matters. All archaeologists matter how imperative the need to record archaeological information; hence Health and Safety regulations and requirements cannot be ignored no
- relevant parties before work commences Archaeologists undertaking fieldwork must observe safe working practices; Safety arrangements must be agreed and understood γ <u>a</u>

- with responsibilities of the role of planning supervisor. specified Archaeologists must liase closely with the principal contractor and comply site rules. Archaeologists are advised to note the onerous
- has adequate insurance policies, public and employer's liability and some relevant form of civil liability indemnity or professional indemnity. The archaeologist undertaking a watching brief must ensure that he or she
- conform to their arrangements for notification of entering and leaving site other identified representative of the principal contractors or developers, On arrival on site, the archaeologist should report to the site manager or
- other contractors not cause unreasonable disruption to the maintenance of the work schedules of constraints of the nature of the archaeological resource, the archaeologist shall procedures previously agreed with the other contractors on the site. Within the suspend development work, Where the archaeologist has by instruction or agreement the power to he or she shall, in exercising such power, follow
- An archaeologist should keep a record of the date, time and duration of all visits, the number of staff concerned and any actions taken.

4. POST-FIELDWORK ANALYSES AND REPORTS

- project design before commencing work, and who should understand the work required of them, must carry out all assessment and analytical work. Suitably qualified and experienced staff, who must be apprised of the
- appropriate to the aims and purpose of the project. The level of recording and analysis of artefacts and ecofacts should be
- included in the project archive. All data generated as a result of assessment and/or analysis should be
- and/or specification All reports must address the aims and purposes of the project design
- requirements of public inquiries and courts of law if appropriate Consideration should All reports should be written in a clear, concise and logical style; technica should be given during the preparation of the report to the be explained if the report is for a non-archaeological audience
- report must be Agency (PHRA) within six months of completion of report Subject to any contractual requirements on confidentiality, copies of the submitted to the appropriate Provincial Heritage Resources

submitted to the appropriate PHRA. minimum, a site summary 9 data structure report should De

5. MONITORING

- points apply equally to internal monitors or managers. monitors from outside the organisation undertaking the work, but many of the or their nominated representatives. The guidance below is directed in general at Section of the South African Association of Archaeologists (CRM Section of SA3), the project, and if appropriate by the PHRA, the Cultural Resources Management All work must be monitored by the archaeological contractor undertaking
- appropriate specialist advice A monitor should be suitably experienced and qualified, or have access
- project design Monitoring must be undertaken against the written specification and/or
- such as staff numbers, budgets or timetable. 5.4 mind the need for flexibility, within the stated parameters, in contractual matters Monitors, where not representing the commissioning body, should bear in
- All monitoring visits must be documented, and agreed by each party.
- client if appropriate, at the earliest opportunity. pointed out by the monitor to the archaeologist undertaking the work, and their 5.6 Non-compliance with the agreed specification or project design must be
- Health and Safety, in particular reporting and advising against bad and unsafe Monitors should be aware of their professional and moral duties regarding
- or other monitor of the commencement of work with reasonable notice the archaeologist undertaking fieldwork must inform the planning archaeologist All monitoring arrangements must be agreed at the outset of the project;
- work to attend only at prearranged times and, if necessary, in the company of Monitors must respect reasonable requests from the client commissioning the inform the archaeologist undertaking the work of any intended visits in advance Although monitors may choose to visit at any time, they should normally representative
- other monitor must be agreed in writing at the outset of the project. Any costs for monitoring to be charged by the planning archaeologist or

6. REPORT CONTENTS

sections will occur in most scope of works, the nature of the results or other factors. However, the following The specific requirements of any report will necessarily vary according to the

Non-technical summary

and commissioning body. This should outline in plain, non-technical language the principal reason for the its objectives and main results. It should include reference to authorship

Introductory statements

planning background, the archaeological background, an outline nature of work, project was undertaken and by whom. the site description (including size, geology and topography, location), when the These could include acknowledgements, circumstances of the project such as

Aims and objectives

specification. should reflect or reiterate the aims set out in the project design or

Methodology

necessary by the use or period references) should be explained where necessary if the report is separated from interpretative statements. Technical terminology (including dating and/or relation to the methods used, and describing structural data, associated finds These should be set out as a series of summary statements, organised clearly in design or specification should be set out carefully, and explained as appropriate. The methods used, including the detail of any variation to the agreed project contained in appendices (below). largely non-archaeological audience. environmental data recovered. Descriptive material should be clearly of drawings and photographs; and by supporting data The results should be amplified where aimed

Conclusions

include and puts them into context (local, national or otherwise). Other elements particular factors (eg weather or problems of access). appropriate to include a section, which sums up and interprets confidence rating on techniques used, or on limitations imposed by the

Archive location

report. The final destination of the archive (records and finds) should be noted in the

Appendices

etc. It may also be appropriate to include the project design or specification for ease of reference. example lists of artefacts and contexts or details of measurements, gazetteers These should contain essential technical and supporting detail, including for

Illustrations

specified area clearly numbered and easily referenced to the National Grid and related to the minimum a location plan should be included. Any plans or sections should be Most reports will need the inclusion of one or more illustrations for clarity; as a

References and bibliography

A list of all sources used should be appended to the report.

Other

Contents list, disclaimers.

7. REFERENCES

archaeological watching brief. United Kingdom The Institute of Field Archaeologists, 2001. STANDARD AND GUIDANCE - for an

Dear Nomathemba

I am writing this letter as a follow up of our discussion this morning

system. Being thrown out in the streets is not going to benefit the university as they Five students are in the streets, despite our efforts to resolve the situation. It will be impossible to raise any money to repay the university, if they are out of the university are incapable of paying for their fees.

HOD Civil Engineering. We tried to discuss a way out of this, please see the copy of the letter written to the

Based on the June 2005 results, four of them are very good students who may have passed all their first year courses. If they a