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#### PROPOSED NEW BRICKWORKS FOR AFRICAN HERITAGE SCOPING REPORT: GAUTENG PROVINCE **FARM ZUURBEKOM 297 IQ,** BRICK CX

SUBMITTED TO: Rock Environmental Consulting DATE OF SUBMISSION: 21 March 2004

## EXECUTIVE SUMMARY

affected by this development were identified. The only aspect that could give cause for concern is the assessed in more detail. possible negative impact by air pollution (dust, smoke, gases) generated by the proposed brickworks, on the historic Zuurbekom waterworks (1899) in the immediate vicinity. This issue needs to be This report fulfils the requirements for a Level 1 (scoping) report as part of a Heritage Impact Assessment (HIA) as provided for in the National Heritage Resources Act (Act 25 of 1999). The proposed township development area was surveyed. No significant heritage resources that will be

R C DE JONG Cultmatrix co

# PART 1: REPORT ON PROJECT EXECUTION

#### 1.1 Background

This study and report is part of an environmental impact assessment required for the development of a new brickworks site by African Brick, situated on a portion of the farm Zuurbekom 297 IQ, north of Lenasia, Gauteng Province

#### 1.2 Legal context

This study constitutes a Level 1 heritage scoping investigation as part of the environmental impact assessment required for the brickworks development. In terms of Section 38 (1)(c)(i) (listing any development or activity that could change the character of a site exceeding 5000 square metres) of the National Heritage Resources Act (Act 25 of 1999), a heritage impact assessment is normally required by the responsible heritage resources agency, which, in this case, is the Gauteng office of the South African Heritage Resources Agency based in Johannesburg.

agency at the earliest possible stage about existing and potential heritage resources that may be affected by the proposed development, and to recommend mitigatory measures aimed at reducing any negative impacts on these heritage resources The purpose of this Scoping Report is to alert the developer/contractor and the heritage resources

## 1.3 Terms of reference

Cultmatrix cc, a heritage management consulting agency, was appointed by Rock Environmental Consulting to undertake a heritage impact assessment of the brickworks development area and to submit a report in this regard

## 1.4 Status of this document

This document constitutes the Level 1 (scoping) report required to submit to the environmental consultant, the developer or his/her agency and to the provincial heritage resources agency the findings and ensuing recommendations of a heritage impact assessment in terms of Section 38(3) of

#### 1.5 Project team

qualified historian and heritage management specialist The heritage scoping was undertaken by Dr R C de Jong (Principal Member of Cultmatrix cc), who is ω

### 1.6 Method of work

- Field trip on 29 February 2004 during which the entire area was surveyed on foot
- Perusal of existing databases of heritage sites
- Desktop research

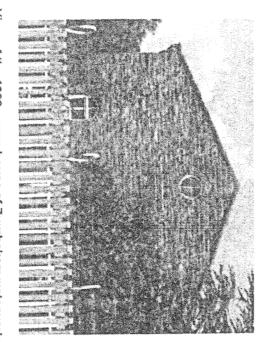
# PART 2: HERITAGE CONTEXT OF THE AFFECTED AREA

found during the site visit springs and pans. Stone Age communities have therefore inhabited it. No Stone Age artefacts were number of river valleys, herds of game in This area is characterised as the Southern Highveld, featuring rolling grasslands, the past and an abundance of water in rivers, streams, high altitudes,

favourable climatic changes. Lack of wood and an abundance of natural stone resulted in numerous stonewalled settlements. Neither traces of such settlements, nor any finds of potsherds or other Iron of Iron Age settlement would have been destroyed extensively for construction and grazing purposes for over 150 years, during which all possible traces Age material were identified during the site visit due to the fact that the Permanent occupation of black Iron Age communities only began in the 17th area has been used century due to more

settled themselves in the area. The existing farm Zuurbekom 297 IQ was established in the late 1850s when white pioneer farmers

Pumping station Resources Act. I railway line that forms the northern boundary of the development site David Draper, a geologist employed by a waterworks company owned by the goldmine and diamond magnate Barney Barnato, pointed out the site in 1895. A pumping station building was completed in 1899 and the supply from this source has been constant. Johannesburg obtained its first water of good quality from an underground source on It is situated immediately north of the now a declared provincial heritage resource in terms of the National Heritage of the Johannesburg-Soweto-Westonaria-Carletonville This water never needed filtration. SILL and diamond He 9



View of the 1899 pump house of Zuurbekom waterworks

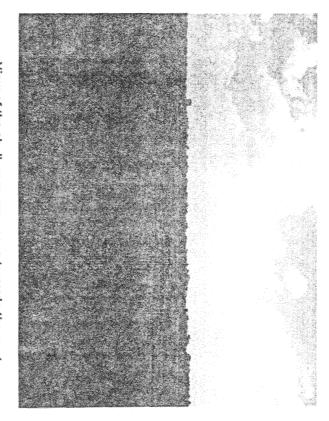
The site's western boundary is formed b an extensive forest of eucalyptus trees and black wattles, whilst a gravel road forms the eastern boundary. Located between this road and the Lenasia Extension 1 township is the Lenz military base.

# PART 3: FINDINGS AND RECOMMENDATIONS

detected specifically in the area earmarked for development. No significant archaeological and historical sites, structures, buildings and objects Were

# 3.1 Identification and mapping of heritage resources

only sign of human use is a shallow excavation that was presuma limestone and shale. This quarry is of no particular heritage significance The proposed brickworks development site is a relatively featureless plain covered with tall grass. The only sign of human use is a shallow excavation that was presumably used to quarry the local



View of the shallow quarry, seen towards the west

# 3.2 Assessment of significance of heritage resources

any particular event, individual or community. However, the neighbouring Zuurbekom waterworks are an important provincial industrial site and are protected by law. The quarry is of no particular heritage significance. The development site is also not associated with

## 3.3 Impact assessment

The proposed development will not negatively impact on this area within the context of heritage conservation. This is due to the fact that the area has already been changed significantly by recent human interventions such as stock farming. This does not mean that there are no such sites, construction work begins structures, buildings and objects at all. arming. This does not mean that there are no such sites, it can happen that they will only become visible when actual

## 3.4 Social and economic benefits

and the creation of jobs The benefits of the proposed development will be industrialisation (brick production for housing etc)

# 3.5 Consultation with affected communities

it could be possible to consult heritage specialists when the impact of the proposed development on the Zuurbekom waterworks becomes better understood with reference to possible air pollution. Since no heritage resources of significance were identified, no consultation was necessary. However,

## 3.6 Consideration of alternatives

With the possible exception of the Zuurbekom waterworks, there are no heritage resources that will be affected be the proposed development. Since the possible effects of air pollution from the brickworks air pollution are as yet unknown, it is too early to consider alternatives at this stage that will mitigate the effects of

# 3.7 Mitigation of adverse effects during and after construction

We recommend that

- structures and objects through excavation activities Construction work be monitored for the uncovering of any archaeological and historical sites
- This recommendation must be included in construction tender documents

upon the amount of dust generated by the brickworks and the prevailing wind direction unlikely that the latter will be affected negatively by the brickworks, except for possible air pollution in the form of dust, smoke and exhaust gases from kilns. This has to be taken into account, depending Due to the distance between the proposed development site and the Zuurbekom waterworks, 

urgently in more detail This aspect, which does, strictly speaking, not form part of this report, needs to be assessed

# PART 4: INFORMATION SOURCES USED IN COMPILING THIS REPORT

National Heritage Resources Act, No 25 of 1999

Standard Encyclopedia of Southern Africa, Vol 11. Cape Town: Nasou, 1976

# PART 5: TERMINOLOGY USED IN THIS REPORT

#### Development

Any physical intervention, excavation, or action, other than those caused by natural forces, which may in the opinion of a heritage resources authority in any way result in a change to the nature, appearance or physical nature of a place, or influence its stability or well-being.

### Heritage resources

Any place or object of cultural significance, including

- (a) places, buildings, structures and equipment of cultural significance
- (b) places to which oral traditions are attached or which are associated with living
- (c) historical settlements and townscapes
- landscapes and natural features of cultural significance
- (e) geological sites of scientific or cultural importance
   (f) archaeological and palaeontological sites;
   (g) graves and burial grounds, including—
- (ii) ancestral graves
- (ii) royal graves and graves of traditional leaders
- (iii) graves of victims of conflict;(iv) graves of individuals designated by the Minister by notice in the Gazette;
- historical graves and cemeteries; and

(vi) other human remains, which are not covered in terms of the Human Tissue A.C., 1983 (A.C.) No. 65 of 1983);

(h) sites of significance relating to the history of slavery in South Africa:

(i) movable objects, including

rare geological specimens; archaeological and palaeontological objects and material, meteorites and (i) objects recovered from the soil or waters of South Africa, including

living heritage (ii) objects to which oral traditions are attached or which are associated with

(iii) ethnographic art and objects

(iv) military objects;(v) objects of decorative or fine art;

(vi) objects of scientific or technological interest; and

South Africa Act, 1996 (Act No. 43 of 1996) are public records as defined in section 1(xiv) of the National Archives of (vii) books, records, documents, photographic positives and negatives, graphic, film or video material or sound recordings, excluding those that

## Heritage significance

(a) its importance in the community, or pattern of South Africa's history

natural or cultural heritage. (b) its possession of uncommon, rare or endangered aspects of South Africa's

South Africa's natural or cultural heritage, (c) its potential to yield information that will contribute to an understanding of

(d) its importance in demonstrating the principal characteristics of a particular class of South Africa's natural or cultural places or objects; (e) its importance in exhibiting particular aesthetic characteristics valued by a

(f) its importance in demonstrating a high degree of creative or technical community or cultural group

for social, cultural or spiritual reasons achievement at a particular period (g) its strong or special association with a particular community or cultural group

organisation of importance in the history of South Africa; and (h) its strong or special association with the life or work of a person, group or

(i) sites of significance relating to the history of slavery in South Africa







#### SOUTE AFRICAN TINTIAGE RESOURCES アの AUZUZ M

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9/2/283/3; 9/2/262/13

ENQUIRIES: Ms J Kitto

DATE 11 October 2004

Rock Environmental Consulting (Pty) Ltd

PO Box 40541

MORELETA PARK

BY FAX .: (012) 997-0346

Attention: Pieter van der Merwe

Dear Sir

THE FARM ZUURBEKOM 297 IQ, WESTONARIA, GAUTENG REPORT) FOR THE PROPOSED BRICKMAKING FACILITY ON PORTION 38 OF RE: ENVIRONMENTAL SCOPING REPORT (INCLUDING A HERITAGE SCOPING

- Scoping Report, refer. Please excuse the inordinate delay in responding. 2004 requesting an opportunity to comment on the Heritage Impact component of the Your notification, dated 11 March 2004, regarding the above, and our reply dated 16 April
- 2 subsequently, including a Heritage Scoping Report It is confirmed that a copy of the Environmental Scoping Report for the above was received
- (4) The following points were noted from the Heritage Scoping report
- زيخ detected specifically in the area earmarked for development no significant archaeological and historical sites, structures, buildings and objects were
- 3.2 northern boundary of the development site a provincial heritage resource, the Zuurbekom pumping station, is located just outside the

- 1. present. We therefore request a clarification of the methodology on which the findings on is a qualified historian, there is no indication that an archaeologist was also involved. Only However, it is noted that although the heritage specialist who produced the Scoping Report the archaeological aspect of the site are based an accredited archaeologist can state that there are no archaeological sites or material
- !A by SAHRA. In the meantime, the HIA recommendation that: Our final comment will be provided subject to the above written clarification being received
- construction work be monitored for the uncovering of any archaeological material through excavation activities; and sites 2
- that this recommendation be included in the construction tender documents

is supported in principle by SAHRA.

9 structures and open land are present. buildings/structures will require a heritage architect. An historian would be useful in There is also the possibility that two or more specialists would be required; eg, if both researching either the history of the over-all area or a specific site (especially if built-up) an archaeologist (or palaeontologist, eg: on dolomitic ground), while the presence of particular area. For example: open land, which may also contain graves, will usually require may be necessary for specific heritage specialists to be consulted in the assessment of a Please note for future reference, that due to the diverse nature of heritage resources

Should you require any clarification, please contact us at the above telephone or facsimile number.

Yours Sincerely,

Jennifer Kitto Assistant Manager

for MANAGER. GAUTENG OFFICE