PO Box 7296 Thohoyandou 0950 South Africa

rchaeo-Into Northern Province

for a water supply project near Giyani Heritage Impact Assessment

Evaluation of the heritage component of the Environmental Impact Assessment for a water supply project near Giyani Giyani ABP, Sub-project 2, NP058), Northern Province

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Giyani ABP, Sub-Project 2, NP058

Evaluation of the Heritage Potential of the Project

Executive Summary

Project Title: Giyani ABP, Sub-Project 2, NP058

Site name and location: Southern Giyani Municipality, Focus Area 3, including villages Bambeni, Gidya, Maboko, Mamphata, Mamphata South, Munghongoma, Nkomo A.

Magisterial district: Giyani

Developer: Department of Water Affairs and Forestry

Consultant: AINP, PO Box 7296, Thohoyandou, 0950, South Africa

Date development was mooted: September, 2001

Date of Report: 14 February 2002

Proposed date of commencement of development: March 2002

archaeological value were found. **Findings:** It is the finding of the consultant that the proposed development of the water supply system can continue, as the sites involved are already developed and no sites of cultural, historical or

Introduction

conduct a Heritage Impact Assessment (HIA) on the proposed development of a water supply system near Giyani in the villages of Bambeni, Gidya, Maboko, Mamphata, Mamphata South, Munghongoma Archaeo-Info Northern Province (AINP) was contracted by Fauna Galore Environmental Consultants to

Resources Agency (SAHRA). Resources Act (NHRA), 25 of 1999 and is intended for submission to the South African Heritage (DFA), 67 of 1995. The HIA is performed in accordance with section 38 of the National Heritage This HIA forms part of the Environmental Impact Assessment (EIA) as required by the Environmental Conservation Act (ECA) 73 of 1989, the Minerals Act, 50 of 1991 and the Development Facilitation Act

Location

following 1:50 000 maps: 2330 BC, - BD, -DA, DB and 2331 AC - CA The proposed sites are all located on existing developed sites. The mentioned villages can be found on the

The specific locations of the sites are indicated by GPS readings

Fieldwork

performed by a professional archaeologist assisted by a fieldworker. Members of AINP met with Dr. D. Engelbrecht on 6 February 2002 on site during which the survey was

using colour prints in 100 ASA format. activities during the development of the sites. Sites were plotted with GPS readings and photographed The extent of the sites was determined as well as the extent of the areas to be affected by secondary

Methodology

directional parameters supplied by the GPS and surveyed by foot. The area was surveyed using standard archaeological surveying methods. The area was surveyed using

site documentation forms as comparable medium, it enabled the surveyors to evaluate the relative importance of sites found. Furthermore GPS (Global Positioning System) readings of all finds and sites were taken. This information was then plotted using a *Magellan 2000 XL* GPS (*Cape* datum). Standard archaeological documentation formats were employed in the description of sites. Using standard

their importance. These categories are as follows: classified using a hierarchical system wherein sites were assessed using a scale of zero to four according sub-surface occurrence of archaeological material. The importance of sites was assessed by comparisons identifying sites of possible archaeological importance. with published information as well as comparative collections. All sites or possible sites found were Indicators such as surface finds, plant growth anomalies, local information and topography were used in Test probes were done at intervals to determine

Degree of significance	Justification	Score
Exceptional significance	Rare or outstanding, high degree of intactness. Can be interpreted easily.	
High significance	High degree of original fabric. Demonstrates a key element of item's significance. Alterations do not detract from significance.	رنى ا
Moderate significance	Altered or modified elements. Element with little heritage value, but which contribute to the overall significance.	2
Little significance	Alterations detract from significance. One of many. Alterations detract from significance.	
Intrusive	Damaging to the item's heritage significance.	
The company of the transport of the company of the		

Cultural Importance and Oral History

found in the study area. These could include graves, places of power or initiation schools and any other area that is seen as culturally sensitive to the local communities. communities. Furthermore there should also be looked at the possibility of culturally important areas being found on sites, but there should also be looked at the intangible aspects of cultural importance for the local The investigation of a site for heritage components should not only look at the material remains that are

No such sites were identified during the study.

The Sites

suggest that any sites of cultural or historical value was or is present in the proposed area to be developed. After extensive investigations, both on the surface and subterranean, no indication could be found to

SITE 1

Bambeni

GPS: 23° 29' 27" S

30° 42′ 12″ E

This site is already developed and the existing borehole and structure will be refurbished (photo 1). All possible finds, if any were therefor destroyed or damaged during the original development.

SITE 2

Mamphata

GPS: 23° 30" 45" S

30° 45′ 39″ E

original development. refurbished (photo 2). All possible finds, if any were therefor destroyed or damaged during the As with the previous site, this site is already developed and the existing borehole and structures will be

SITE 3

Mamphata South

GPS: 23° 30' 37" S

30° 44′ 35″ E

original development. line will take place (photo 3). All possible finds, if any were therefor destroyed or damaged during the As with the previous sites, this site is already developed and a further development of a 8 m electrified

SITE 4

Munghongoma

GPS: 23° 32' 28" S

30° 47' 12" E

development As with the previous site, this site is already developed and the existing borehole and structures will be refurbished (photo 4). Al possible finds, if any were therefor destroyed or damaged during the original

SITE 5

Gidya

GPS: 23° 33' 01" S

30° 48' 16" E

original development. As with the previous site, this site is already developed and the existing borehole and structures will be refurbished (photo 5). Al possible finds, if any were therefore destroyed or damaged during the

SITE 6

Maboko

GPS: 22° 26' 44" S

30° 45' 40" E

development. As with the previous site, this site is already developed and the existing borehole and structures will be refurbished (photo 6). Al possible finds, if any were therefore destroyed or damaged during the original

SITE 7

Nkomo A

GPS: 23° 25' 06" S

30° 47" 11" E

As with the previous site, this site is already developed. A new pipeline of 250 m will be developed between the existing borehole and a reservoir (photo 7 & 8). All possible finds, if any were therefore destroyed or damaged during the original development.

Recommendations

the conclusion of AINP that the development can continue. All 7 sites discussed were already developed and any possible finds were destroyed or damaged during the original development. No sites of cultural or historical value were identified in the proposed area and it is

Conclusion

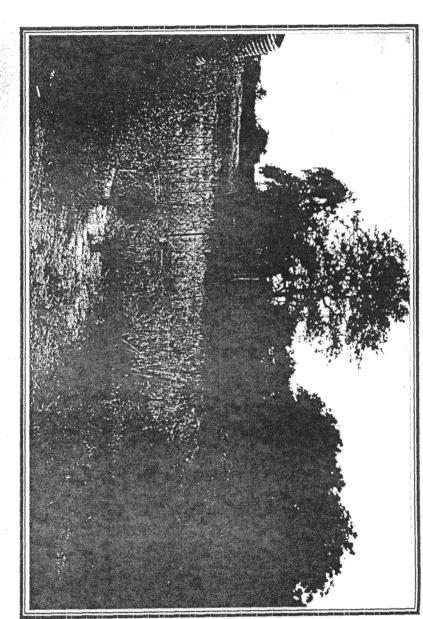
Maboko, Mamphata, Mamphata South, Munghongoma, Nkomo A. A heritage impact assessment was performed on 7 sites in villages near Giyani, namely Bambeni, Gidya.

From a cultural heritage perspective the construction of the water supply system can continue

References

- 1. Hartman, JB. & Kriel, J.D. 1991. Gazankulu en sy Mense. Pretoria: University of Pretoria
- Nasionale Museum Bloemfontein, Vol. 7, part 8. August 1991 2. Loubset, J.H.N. 1991. The Etnoarchaeology of Venda-speakers in Southern Africa. Navorsinge van die
- 3. Stayt, H.A. 1968. The Bavenda. London: Frank Cass & Co. Ltd.

PHOTOGRAPHS



hoto I. Site I (Bambeni borehole)

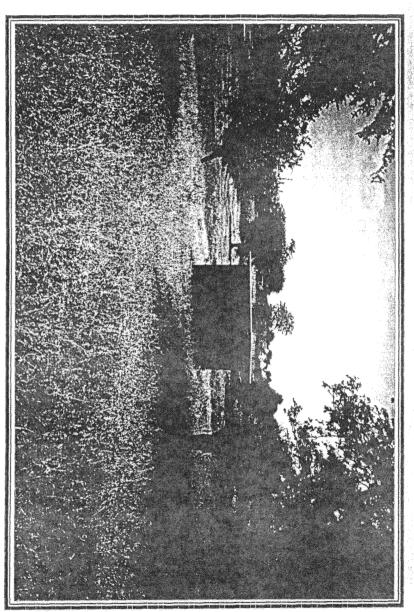


Photo 2. Site 2 (Mamphata village borehole).

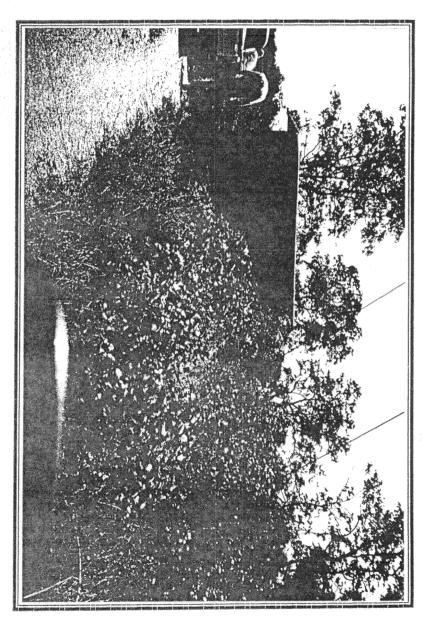


Photo 3. Site 3 (Mamphata South electrified line).

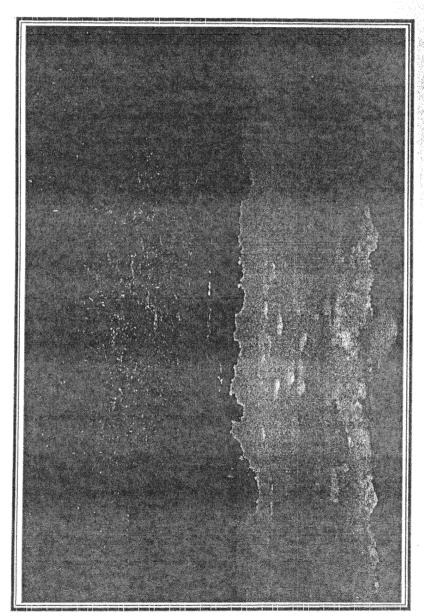


Photo 4. Site 4 (Munghongoma borehole).

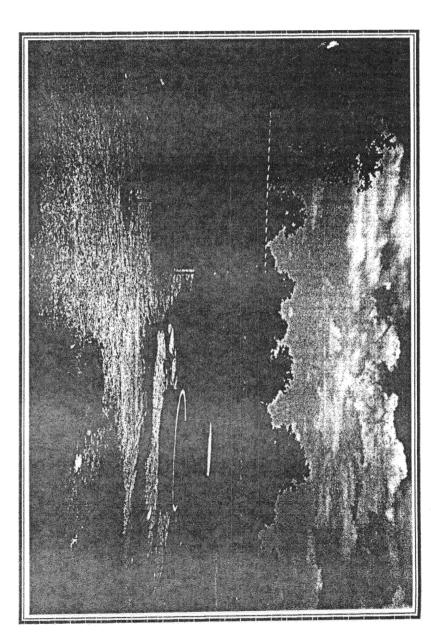


Photo 5. Site 5 (Gidya borehole).



Photo 6. Site 6 (Maboko borehole).

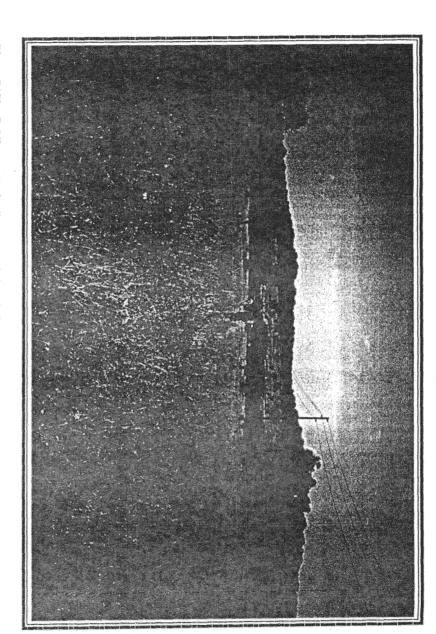


Photo 7. Site 7 (Nkomo A pipeline towards borehole).

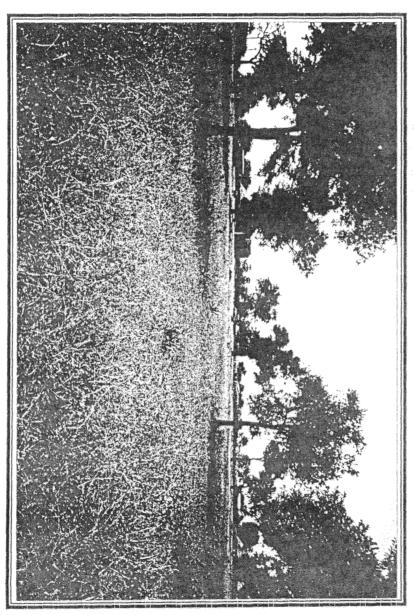
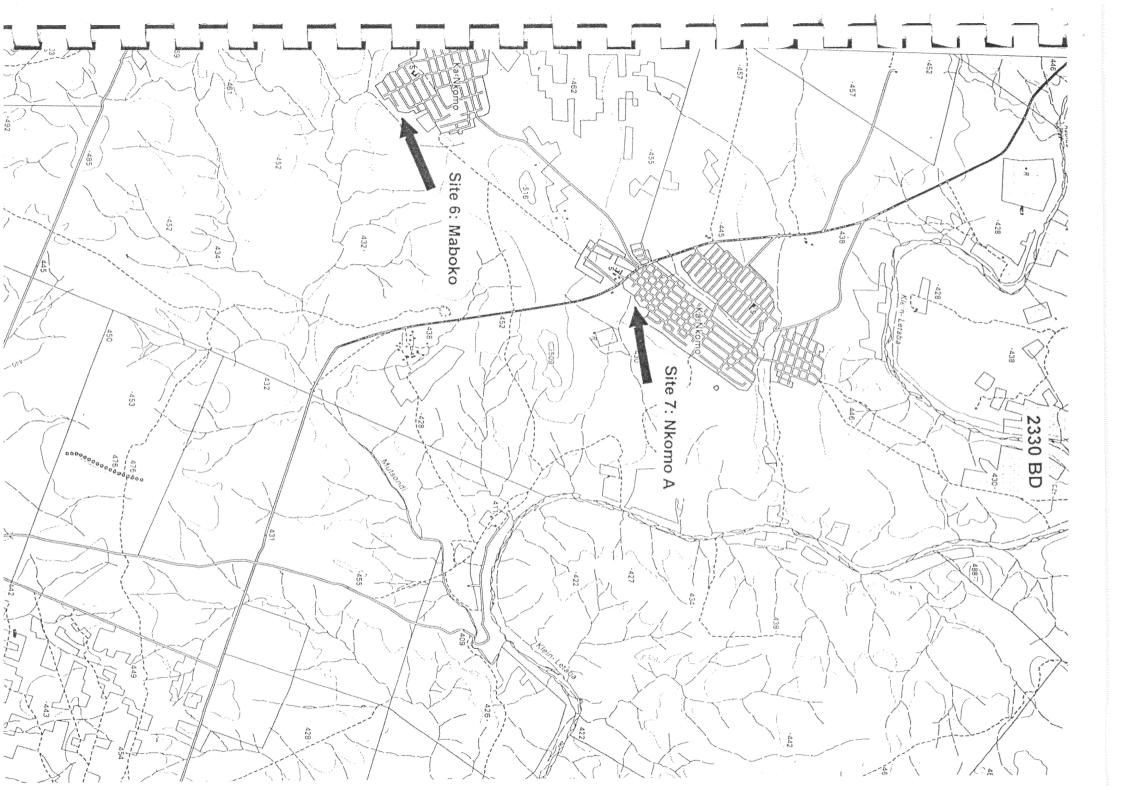


Photo 8. Site 8 (Nkomo A pipeline towards reservoir).

OCATION MAP









ADDENDUM F

Water Quality Guidelines for Domestic Use

SUMMARISED WATER QUALITY GUIDELINES FOR DOMESTIC USE

0-3	CINC
	VANADIUM
0-1(NIU)	TURBIDITY
$0 - 100 (\mu g I)$	TRIHALOMETHANES
50 - 100 (mg/l as CaC0 ₃)	TOTAL HARDNESS
Electrical Conductivity	
0-450 at $0-70$ mS/m	TOTAL DISSOLVED SOLIDS
0-5 (count/100 m)	TOTAL COLIFORMS
$0-200 (\text{mg/l as SO}_4^2)$	SULPHATE
0-100	SODIUM
0 - 20 (μg/l)	SELENIUM
0-50	POTASSIUM
$0-1 (\mu g/1)$	PHENOLS
6-9 ^t	pH
0 - 6 (mg/1 N)	NITRATENITRITE
$0-1 (\mu g/1)$	MERCURY
0-0.05	MANGANESE
0-30 (mg/1 as Mg)	MAGNESIUM
0 - 10 (μg/l)	LEAD
0-0.1	IRON
0,3-0,6	FREE AVAILABLE CHLORINE
0 1	FLUORIDE
0 (counts/ 100 ml)	FAECAL COLIFORMS
0-5 (mg C/I)	DISSOLVED ORGANIC CARBON
0-1	COPPER
0-0.050	CHROMIUMVI
0-100	CHLORIDE
0-32	CALCIUM
$0-5 (\mu g/1)$	CADMIUM
$0-2 (\mu g/1)$	ATRAZINE
0-1*10° (Fibres/1)	ASBESTOS
0-10 (µg/l)	ARSENIC
0-1 (mg/1 N)	AMMONIA
0.15 - 0.5	ALUMINIUM
CONCENTRATION*	CONSTITUENT

Source: South African water quality guidelines, Volume 1: Domestic Water Use, Second Edition, 1996

ADDENDUM G

Approval of Plan of Study

Ref 16/1/3/4 - 50

Enq:

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0787

ATTENTION: DR G.D. ENGELBRECHT

GIVANI SOUTH APPLICATION FOR AUTHORISATION: BULK WATER SUPPLY FOR

Please use abovementioned reference number in future correspondence

the abovementioned application: The Department would like to acknowledge receipt of the following documentation, for

- an Application form;
- ೦೮೭ Declaration of independence by Consultant; and
- a Plan of Study for Scoping.

as stipulated in the EIA guideline document. You are hereby requested to submit a Scoping Report, and to adhere to the guidelines

environmental constraints as well as alternative ways of undertaking construction activities, in order to lessen the impact of construction. This EMP must give guidance to the civil engineers and contractors regarding An Environmental Management Plan for construction (EMP) must also be submitted

Please feel free to contact this office if you have any queries.

Yours sincerely

for SUPERINTENDENT GENERAL

DATE 101

ADDENDUM H

Late and/or Additional Information