# ARCHAEOLOGICAL STUDY ROAD MR 6, MADLANGEMPISI MSAHWENI, SWAZILAND 

Prepared for<br>POLTECH (Pty) Ltd

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implementation of the project. consulted as to the whereabouts of more recent burial sites, prior to
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Msahweni, the following archaeological recommendations have been made. With regard to the planned upgrading of the road MR6 between Madlangempisi and negatively impacted during implementation of the project. The impact of the planned upgrading of the road MR6 on archaeological sites is
considered to be low. More recent and ancient human burial sites may, however, be

The burial sites have been given high significance ratings

 upgrading is also considered to be low.
rating. The probability of locating significant archaeological sites during planned All the archaeological sites located during the study have been given a low significance kopje close to the road MR6. fallow fields. Pot sherds were also found in unpainted rock shelters and overhangs on a slopes and terraces. A few pot sherds and stone flakes were located in ploughed and
 All the archaeological sites located during the study are in a severely disturbed context.
Sites were located in the road reserve, in road cuttings, on degraded alluvial river searched for archaeological sites.
Proposed borrow pit and quarry sites have been identified, and these were also
Msahweni. A number of deviations from the existing alignment have been proposed
 identified during the study
between Madlangempisi and Msahweni, Swaziland. Five human burial sites were also Thirty seven sites were located during an archaeological study of the road MR6
stretches through the Lowveld region of the country section of the road is situated in the Middelveld region of Swaziland, while the rest The study site for the proposed development is ilustrated in Figure 1. The existing
Madlangempisi - Msahweni Road consists of 48 kms of gravelled road. The northern The study site for the proposed development is illustrated in Figure 1. The existing
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4. to identify mitigatory measures to protect and maintain any valuable archaeological
sites, burial sites and religious interest site that may exist. development, and
3. to assess the status and significance of any impacts resulting from the planned religious interest sites,
2. to identify and map any sites of archaeological significance, including burial sites and
religious interest sites;

1. to determine whether there are likely to be any archaeological sites, burials or
religious interests sites of significance;
The terms of reference for the archaeological study were:
2. TERMS OF REFERENCE
impact.
implementation of the planned project, and to propose measures to mitigate against the religious interest sites that may be impacted by the planning, construction and
Msahweni. A number of deviations from the current alignment have been proposed The planned project involves upgrading of the gravel road between Madlangempisi and also searched for archaeological sites. Ltd to undertake a baseline archaeological study of the road MR6 between The Agency for Cultural Resource Management has been requested by Poltech (Pty)
Ltd to undertake a baseline archaeological study of the road MR6 between
1.1 Background and brief
NOILORGO\&LNI 'I
0 Beaumont at the well-known Nsangwini rock art site. notes). According to Masson (pers. comm.) , a small excavation was also carried out by Komati River in the late $1960^{\prime}$ s (John Masson, pers. comm., \& Peter Beaumont, field

 (L66I Kesput (MSA) site, upstream from the Komati River bridge was excavated (Price-Williams \&
 A large collection of Early Stone Age ${ }^{2}$ (ESA) implements was also made on the south
bank of the Komati River, a little upstream from the Kufika Gorge in 1977 (Price-
 Nineteen archaeological sites and six rock painting sites were located and recorded and some pottery remains were also located during the study (Kaplan 1998).
 the Maguga Dam Project. The entrance to the farm is immediately off the road MR6 at of the Nyonyane Sisa Government Ranch, one of two proposed resettlement areas for One rock art site, and one Middle Stone Age site was recorded during a baseline study with bangles, and pot sherds (Bobby Forester, pers. comm.). the study area, excavations for an irrigation canal in 1977 exposed a human skeleton close to the study area, however (John Masson, pers. comm.). And at Bhalekane, in

No previous detailed archaeological studies have been undertaken in the study area.

A desk top study was also undertaken. comprises a written description of the sites, Global Positioning System (GPS) co-
ordinates, mapping, and photography where appropriate. been recorded according to accepted archaeological recording techniques. This borrow pit sites. All the archaeological and burial sites located during the study have foot survey of the existing and proposed new route, including proposed quarry and The approach followed in the road MR6 archaeological study entailed a vehicle and

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Significance of finds: low MR6/2 on the right hand side of the road. The site comprises a marginal scatter of
MSA flakes, chunks and cores in quartzite, shale and quartz, in a degraded, overgrazed
environment characterised by low scrub, bush and dongas.

MR6/3 GPS reading S 2605.79E31032.52@km $£ 1.1$

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Significance of finds: low
gravel slope on the left hand side of the road. Three ESA flakes were also located severely eroded slope with deep dongas, on the left hand side of the road. At $\mathrm{km} \pm 1.3$,
some MSA flakes and an upper grindstone were located on an extensive, sheet-washed The site comprises some MSA flakes, chunks and cores in quartzite and shale, on a

MR6/2 GPS reading $\mathrm{S} 26^{\circ} 05.83 \mathrm{E} 32^{\circ} 32.54 @ \mathrm{~km} \pm 1.0$

Significance of finds: low
$\pm 0.3$, some MSA flakes and chunks were located alongside a footpath below a
boulder strewn kopje on the left hand side of the road. overlooking the town of Madlangempisi. Two ESA artefacts were also located. At km on a sheet-washed gravel terrace directly adjacent to the abandoned butchery The site comprises a handful of MSA flakes and chunks in quartzite, shale and chert,

MR6/1GPS reading S $26^{\circ} 05.43 \mathrm{E} 31^{\circ} 32.88 @ \mathrm{~km} \pm 0.0$
Thirty-five sites were recorded during the study of the existing and proposed new
route.
The road MR6 archaeological study commenced at Madlangempisi ( km 0.0 )
5. RESULTS OF THE IMPACT ASSESSMENT
implements have even been used in the construction of local huts. quarries, and on kopjes. Pottery was also found in unpainted rock overhangs. Stone paths, erosion gullies, river terraces, exposed high level gravels, borrow test pits, of archaeological occurrences in the above studies were all found in severely disturbed
contexts, such as ploughed and fallow fields, along gravel roads and tracks, in foot With the exception of Hlalakahle $1 \& 2$ (Price-Williams \& Lindsay 1977), the majority
${ }^{4}$ a term referring to the last 20000 years of precolonial history in southern Africa.

Significance of finds: low
Ranch sign, on the right hand side of the road. One decorated pot sherd was also
found, as were a number of smaller pieces of thick-walled pot sherds. on compacted, eroded red sands, directly opposite the Sisa Nyonyane Government LSA and some MSA flakes, including a few cores, in chert, quartzite and shale, located Located in the proposed new road alignment, the site comprises a marginal scatter of

MR6/8 GPS reading S 2609.29E31031.37@ km $\pm 4.0$

The site comprises relatively large numbers of LSA flakes, chunks and one
hammerstone in the road reserve and in a donga, on the right hand side of the road.

Suggested mitigation: none required
Significance of finds: low
chunks in a rutted and eroded track close to the village of Muzakeni. MR6/5, on the right hand side of the road. The site comprises a few MSA flakes and Located in the proposed new road alignment, MR6/6 is located directly adjacent to

MR6/6GPS reading $\mathrm{S} 26^{\circ} 0631 \mathrm{E} 31^{\circ} 31.72 @ \mathrm{~km} \pm 3.0$
Suggested mitigation: none required
Significance of finds: low
The site comprises some MSA and ESA flakes and chunks in a ditch and gravel
cutting, on the right hand side of the road
MR6/5 GPS reading $\mathrm{S} 26^{\circ} 06.36 \mathrm{E} 31^{\circ} 31.65 @ \mathrm{~km} \pm 2.9$
Suggested mitigation: none required
Significance of finds: low
silcrete, on a flattish sandy/gravel sheet eroded slope. Two pieces of pottery were also
found.
The site comprises some Later Stone Age ${ }^{4}$ (LSA) flakes in shale, quartz, chert and
MR6/4 GPS reading S 2606.11E31331.95@km $\times 2.3$
Suggested mitigation: none required
Significance of finds: low granite boulder-strewn kopje, about 120 metres from the road. No paintings were
found.
Some thick-walled pot sherds were located in a number of small overhangs on a
MR6/13 GPS reading S $26^{\circ} 01.96 \mathrm{E} 31^{\circ} 32.05 @ \mathrm{~km} \pm 13.5$
Suggested mitigation: none required
Significance of finds: low
A few MSA flakes were located in the road reserve on the left hand side of the road at
the Mzimnene River.
MR6/12 GPS reading S $26^{\circ} 02.49 \mathrm{E} 31^{\circ} 31.48$ @ $\mathrm{km} \pm 11.9$
Suggested mitigation: none required
Significance of finds: low
The site comprises a few pieces of pottery in the road reserve about 100 m from the
Empompini Bus Stop, on the left hand side of the road.
MR6/11 GPS reading S $26^{\circ} 03.35 \mathrm{E} 31^{\circ} 31.12 @ \mathrm{~km} \pm 9.8$
Suggested mitigation: none required
Significance of finds: low
on exposed gravel patches, on grassy terrace overlooking the Komati River.
Located in the new road alignment, the site comprises a few MSA flakes and chunks
MR6/10 GPS reading S $26^{\circ} 05.99 \mathrm{E} 31^{\circ} 31.00$ @ $\mathrm{km} \pm 4.6$
Suggested mitigation: none required
Significance of finds: low $\qquad$ The site comprises a handful of MSA flakes and chunks, and an ESA flake, on a
MR6/9 GPS reading S $26^{\circ} 06.03$ E $31^{\circ} 30.99 @ k m \pm 4.5$
Suggested mitigation: none required

The site comprises a handful of MSA flakes in shale and quartzite, located in an eroded
donga in the road reserve on the right hand side of the road.
MR6/18 GPS reading S 25 ${ }^{\circ} 58.36 \mathrm{E} 31^{\circ} 32.60 @ \mathrm{~km} \pm 21.0$

Significance of finds: low
A few MSA flakes were located in the road reserve on the right hand side of the road

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\text { MR6/17GPS reading S 2659.89E31³2.60@km } \pm 17.9
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Suggested mitigation: none required
Significance of finds: low quartzite and shale, on a fairly extensive, flattish, sheet-washed slope, on the left hand
side of the road. The site comprises a scatter of MSA and LSA flakes, chunks and chips in quartz,
MR6/16 GPS reading S $26^{\circ} 00.08 \mathrm{E} 31^{\circ} 32.62 @ \mathrm{~km} \pm 17.5$
Suggested mitigation: none required
Significance of finds: low
eroded dry river/stream course on the right hand side of the road. The site comprises some MSA flakes and chunks on a river terrace above a highly
MR6/15 GPS reading S $26^{\circ} 00.28 \mathrm{E} 31^{\circ} 32.62 @ \mathrm{~km} \pm 17.0$
Suggested mitigation: none required
Significance of finds: low
A few pieces of pottery were located in the road reserve on the left hand side of the
road, about 100 m before the Hlhlapanoi Grocery Store.
MR6/14 GPS reading S 2601.21E31³2.87@km $\pm 13.9$
$\infty$
Suggested mitigation: No earthworks, or work camps should be located near the
site
Significance of finds: high underneath the trees.
Umlahlabantfu and Umsinsi trees. Two pot sherds were found on the ground Dlamini. According to the chief the 'ancients' were sometimes buried underneath hand side of the road. The site was pointed out to the consultant by Chief Majahane The site is an ancient burial site located about 60 metres from the road on the right
MR6/22 GPS reading S $25^{\circ} 53.72 \mathrm{E} 31^{\circ} 30.68 @ \mathrm{~km} \pm 32.8$
Significance of finds: low
The site comprises some MSA flakes and a utilised blade in shale, on the eroded banks
of the Mpofu River on the left hand side of the road. A few MSA flakes were also
located on the flat river terrace at the next river crossing about 200 metres along the
road on the left had side of the road.

Significance of finds: low

## Significance of finds: low

Suggested mitigation: none required
Suggested mitigation: none required

## Suggested mitigation: none required

broken hollow-based point, in shale and quartz, in an exposed gravel deflation, about
20 metres from a fence on the right hand side of the road. The site comprises a small scatter of MSA flakes and chunks including one possible

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\text { MR6/20 GPS reading S 25ํ56.52 E } 31^{\circ} 31.03 @ \mathrm{~km} \pm 26.0
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unifacial point, in a dry river course against the eroded banks on the right hand side of
the road. The site comprises a few MSA and LSA flakes and chunks, including one broken
MR6/19GPS reading S 25058.72E31032.50@km $@ 21.4$
${ }^{5}$. this site is indicated in the Poltech feasibility report as being located at $\pm \mathrm{km} 37.5$ Significance of finds: high left hand side of the road ${ }^{5}$ (Figure). Two of the grave sites are concrete lined, and two
comprise an arrangement of rocks.

Four recent burial sites were located on a slope about 25 metres from the road on the
MR6/27 GPS reading S $25^{\circ} 49.15 \mathrm{E} 31^{\circ} 28.64 @ \mathrm{~km} \pm 39.5$

Significance of finds: low
The site comprises a handful of MSA flakes, one flake-blade, and a core, in quartzite,
shale and chert, in the road reserve, on both sides of the road. Four undecorated pot
sherds were also found. One potsherd was found embedded in the road.
MR6/26GPS reading S 25 ${ }^{\circ} 49.56 \mathrm{E} 31^{\circ} 28.76 @ \mathrm{~km} \pm 39.3$
Suggested mitigation: none required
моІ :spuy jo әoueoy!us!! Therds, on an exposed gravel bank, directly below a boulder-strewn kopje, on the left
hand side of the road.

The site comprises some MSA flakes in quartzite and shale, and a few undecorated po
MR6/25 GPS reading S $25^{\circ} 50.39 \mathrm{E} 31^{\circ} 29.62 @ \mathrm{~km} \pm 37.2$
Suggested mitigation: none required
Significance of finds: low
Two MSA flakes were located at the base of a steep cutting into a cliff, on the left
hand side of the road. A sign indicating Mayiwane pinpoints the location.
MR6/24 GPS reading S 2550.56E31²9.66@km $\pm 37.0$
Suggested mitigation: none required
Significance of finds: low
The site comprises a few MSA flakes on a soft gravel slope in the road reserve on the
right hand side of the road, at the top of a blind rise.
MR6/23 GPS reading S 25 52 2.40 E $31^{\circ} 30.38 @ k m \pm 35.0$
$\stackrel{\rightharpoonup}{0}$

Significance of finds: low the road. Located in the proposed new road alignment, directly in view of the Mhlonhlweni
River, the site comprises a marginal scatter of MSA flakes and chunks in quartzite,
shale and chert, on an exposed degraded loose gravel bank, on the right hand side of


## Suggested mitigation: none required

## Significance of finds: Iow

 A few MSA flakes in shale, silcrete and chert were located in a footpath, and on anoutcropping of ferrecrete on the left hand side of the road.
MR6/30 GPS reading S $25^{\circ} 48.80$ E $31^{\circ} 27.73 @$ km $\pm 41.7$

## Suggested mitigation: none required

## Significance of finds: low

## he road. <br> A few MSA flakes were located on a soft, moist, gravel patch, on the left hand side of

MR6/29 GPS reading S $25^{\circ} 49.05 \mathrm{E} 31^{\circ} 28.27 @ \mathrm{~km} \pm 40.7$
Suggested mitigation: none required
Significance of finds: low
the road. A few MSA flakes and chunks in shale and quartzite were also found. sheet eroded gravel patch, about 100 metres above the bridge on the right hand side of and some cores, in quartz, quartzite, shale and chert, on a fairly extensive, flattish,
The site comprises fairly large scatter of modified and unmodified LSA flakes, chunks,
MR6/28 GPS reading S $25^{\circ} 49.15 \mathrm{E} 31^{\circ} 28.64$ @ $\mathrm{km} \pm 40.0$
Suggested mitigation: family members to be consulted prior to implementation of
the project
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Significance of finds: low one core, in shale, quartzite, quartz and chert, on a small outcropping of ferrecrete
nodules, on the right hand side of the road, in the village of Timphisini. Located in the new road alignment, the site comprises a handful of MSA flakes and

## MR6/35 GPS reading S $25^{\circ} 47.13 \mathrm{E} 31^{\circ} 25.75$ @ $\mathrm{km} \pm 47.0$

## Suggested mitigation: none required

Significance of finds: low side of the road.
A few MSA flakes were located at $\mathrm{km} \pm 44.5$, in the road reserve, on the right hand also found on the river terrace side of the road. A few ESA cobble flakes were also located. Some MSA flakes were eroded river bank, about 50 metres upstream of the Ndlalambi River, on the right hand chunks and cores, in shale, on heavily eroded gravel slopes directly below a steep
The site comprices a relatively large scatter of modified and unmodified MSA flakes
MR6/34 GPS reading $\mathrm{S} 25^{\circ} 47.94 \mathrm{E} 31^{\circ} 26.87 @ \mathrm{~km} \pm 44.3$
Suggested mitigation: none required
Significance of finds: low on the gravel slopes above the river. hand side of the road. Stone tools were also found embedded in the eroded banks, and degraded gravel bank and steep dongas, overlooking the Ndlalambi River, on the right MSA flakes, chunks and cores, in shale, chert, quartz and quartzite, in a severely
Located in the proposed new road alignment, the site comprises a marginal scatter of
MR6/33 GPS reading not taken @ km $\pm 43.6$
Suggested mitigation: none required

# Significance of finds: low 

> Ndlalambi River bridge. A few ESA cobble flakes were also found MSA flakes and chunks in shale in the road reserve, on a flattish gravel slope, and
below a cutting, on the right hand side of the road, about 160 metres before the

> Located in the proposed new road alignment, the site comprises a marginal scatter of
MR6/32 GPS reading S $25^{\circ} 48.09 \mathrm{E} 31^{\circ} 27.30 @ \mathrm{~km} \pm 43.4$

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Suggested mitigation: none required
Significance of finds: low
river/stream terrace on the right hand side of the road. Some informal brickwork's are
very close to the site. chunks and cores in shale, silcrete and quartz, on a highly eroded, fairly steeply cut, dry
The site is located close to MR6/15, and comprises a scatter of MSA and LSA flakes,
$\mathrm{MR} 6 / 37 \mathrm{GPS}$ reading $\mathrm{S} 26^{\circ} 00.30 \mathrm{E} 31^{\circ} 32.60 @ \mathrm{~km} \pm 32.12$
Suggested mitigation: none required
Significance of finds: low
gravel slope in the road reserve at the top of a blind rise, on the left hand side of the
road.
The site is the same location as MR6/23, and comprises a few MSA flakes on a soft
MR6/36GPS reading $\mathrm{S} 25^{\circ} 52.40 \mathrm{E} 31030.38 @ \mathrm{~km} \pm 12.6$
Two archaeological occurrences were recorded.
The borrow pits and quarry site assessment commenced at Msahweni (km 0.0).
5.1 Borrow pits and quarries
$\stackrel{\rightharpoonup}{\omega}$
Huffman, T.N. \& Calabrese, J.A. 1977. Archaeological survey of Maguga Dam:
quarries and borrow area. A phase 1 report prepared for Steffen Robertson and Kirsten
Consulting Engineers and Scientists. Johannesburg: Archaeological Resources
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Development sites. Report prepared for Steffen Robertson and Kirsten Consulting
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Kaplan, J. 1997 a. Archaeological reconnaissance. Maguga Dam Project - reservoir
environmental impact assessment for Task MCD-6. Report prepared for
Afridev/Knight Piesold. Agency for Cultural Resource Management:Riebeek West.
Kaplan, J. 1997b. Summary report: Archaeological study - Maguga Dam Project -
reservoir environmental impact assessment for Task MCD-6. Report prepared for
Afridev Consultants (Pty) Ltd. Agency for Cultural Resource Management: Riebeek
West.
8. REFERENCES
The above recommendations are subject to approval of the Swaziland National Trust
Commission.
trees (see MR6/22), where possible human burials may be uncovered or exposed.
6. No earthworks or work camps should be located close to Umsinsi or Umlahlabantfu uncovering burial sites, and the procedure to follow. earthmoving equipment, and the site manager, must be made aware of the possibility of remains should be treated sensitively at all times. Contractors, personnel in control of National Trust Commission (Mr S.L. Mamba Chief Executive Officer. Human burial implementation of the project should immediately be reported to the Swaziland
5. Any ancient burial remains disturbed or uncovered during upgrading and
4. Communities affected by the proposed road upgrading should be consulted as to the
whereabouts of recent burial sites, prior to implementation of the project. 3. On-site monitoring during the construction period of the road MR6 is not
considered necessary. 2. No further in depth studies are required.

1. No archaeological mitigation is required.
Msahweni, the following archaeological recommendations are made.
With regard to the planned upgrading of the road MR6 between Madlangempisi and

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Kaplan, J. 1998. Archaeological study, Nyonyane Sisa Ranch, Maguga Dam Project
Environmental Impact Assessment for Task MCD-6. Report prepared for Afridev
Consultants (Pty) Ltd.

