\$100/201/2016

Res 22.9.02

PHASE 1 ARCHAEOLOGICAL IMPACT ASSESSMENT LUTZVILLE WEST VREDENDAL

Prepared for

ENVIROAFRICA

U

Jonathan Kaplan Agency for Cultural Resource Management P.O. Box 159 Riebeek West 7306

Ph/Fax: 022 461 2755 Cellular: 082 321 0172 E-mail: acrm@wcaccess.co.za

AUGUST 2002

Executive summary

located during a Phase 1 Archaeological Impact Assessment in Lutzville West in Vredendal. A few Early Stone Age tools were also found. Relatively large numbers of Middle Stone Age and Later Stone Age tools were

pipeline and oxidation dam. The proposed project comprises social housing, including the construction of a water

Most of the archaeological remains were located at the site of the proposed oxidation dam. A few tools were found in the pipeline route and in the proposed housing site

The stone artefacts were all found in an already severely degraded and altered environment. As a result the tools have been given medium to low importance

Construction of the oxidation dam will impact negatively on archaeological remains, but the significance of the impact is likely to be low.

The impact of the proposed project on archaeological remains pipeline route and in the proposed housing site is likely to be low. 3 the proposed

recommendations are made regard ð the proposed Lutzville West Housing Project, the following

- No immediate archaeological mitigation is required.
- the museum in Vredendal, or other appropriate venue. oxidation dam, and kept for possible educational and display purposes A small collection of tools could be made from the site of the proposed

No artefacts may be collected without a permit issued by SAHRA

- disturbed areas The construction camp and plant site should be located only in already
- No new access road to the oxidation dam should be constructed without an archaeological study being undertaken

Resource Agency (SAHRA) The recommendations are subject to the approval of the South African Heritage

1. INTRODUCTION

1.1 Background and brief

undertake a EnviroAfrica has requested the Agency for Cultural Resource Management to Phase 1 Archaeological Impact Assessment (AIA) in Lutzville West in

communities, including The oxidation dam proposed project excavation comprises social for a water pipeline housing for previously and construction disadvantaged of. <u>د</u>

proposed project, and to propose measures to mitigate against the impact be negatively impacted by the planning, The aim of the study is to locate, identify and map archaeological remains that may construction and implementation of the

2. TERMS OF REFERENCE

The terms of reference for the archaeological study were:

- Ö significance determine whether there <u>a</u> likely ð D O any archaeological sites 0
- Ņ to identify and map any sites of archaeological significance
- ω to assess the sensitivity and conservation significance of archaeological sites
- development, and assess the status and significance of any impacts resulting from the proposed
- 5. to identify mitigatory measures to protect and maintain any valuable archaeological sites that may exist

3. THE STUDY SITE

The study site for the proposed project is illustrated in Figure 1.

The site is located in Lutzville West, about 25 kms west of Vredendal

STUDY APPROACH AND DOCUMENTATION OF ARCHAEOLOGICAL SITES

proposed development. The approach used in the archaeological study entailed a detailed foot survey of the

the oxidation dam This included a study of the proposed housing project, the water pipeline route

A desk top study was also undertaken.

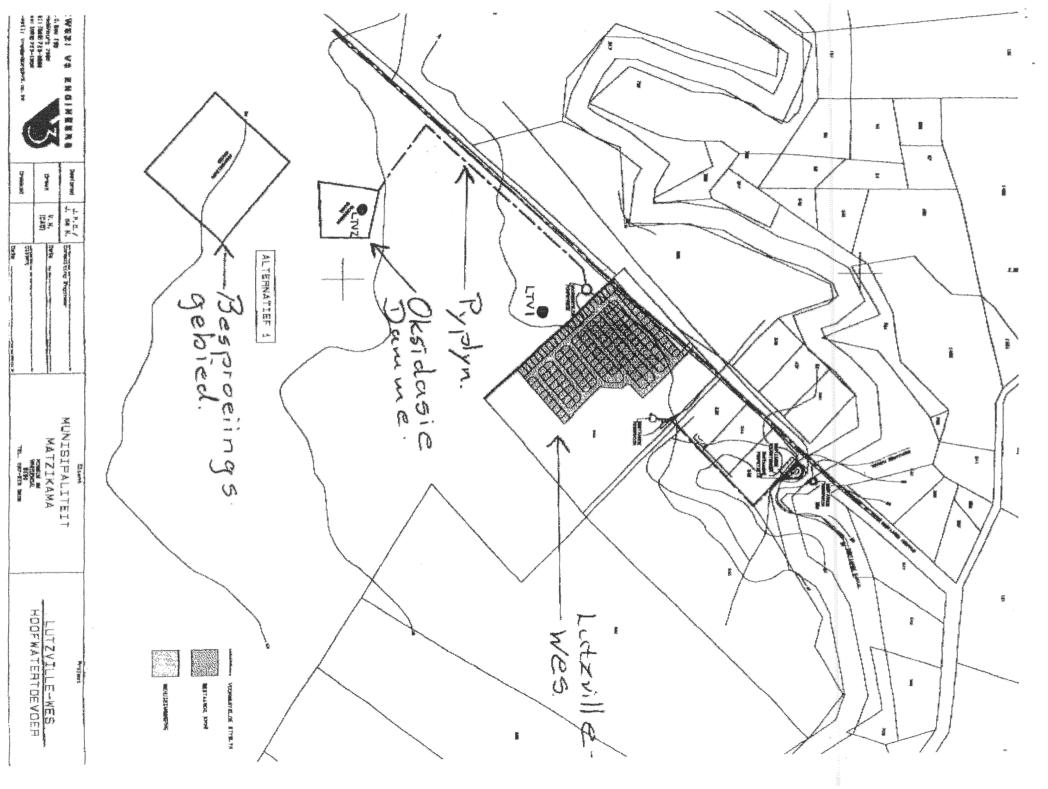


Figure 1. Phase 1 Archaeological Impact Assessment, Lutzville West: I ocality man and the proposed project Social Housing Project,

along the length of the road servicing Namaqua Sands (Hart and Lanham 1997). In any place where the ground surface has been quarried or deflated, such material is the coastal area north of the Olifants River mouth (Hart 1999; Kaplan 2001). Occurrences have been recorded in virtually every track/road, borrow pit, and quarry Middle Stone Age1 (MSA) and Early Stone Age2 (ESA) material are very common in

Some MSA and ESA tools have also been noted Papendorp, Viswater and Strandfontein (Kaplan 2000 and personal observation) (LSA) hunter-gatherer camps and coastal shell middens, have been recorded at Closer to Lutzville, large numbers of archaeological sites, mainly Later Stone Age³

Lutzville for more than one million years. The archaeological evidence shows that people have occupied the and around

LEGISLATIVE REQUIREMENTS

5.1 The National Heritage Resources Act (Act No. 25 of 1999)

5.1.1 Archaeology (Section 35 (4))

authority, destroy, damage, collect, any archaeological material or object. without a excavate, permit issued by the responsible heritage resources excavate, alter or remove from its original position, or

6. RESULTS OF THE ARCHAEOLOGICAL STUDY

6.1 The housing site (Figures 2 & 3)

(Figures 1 & 3). miscellaneous Seven Middle the site, on compacted red sands, in a large, severely degraded area retouched tool, in fine-grained quartzite were located in the southern Stone Age (MSA) flakes, including two utilised flakes one

Importance of finds: low

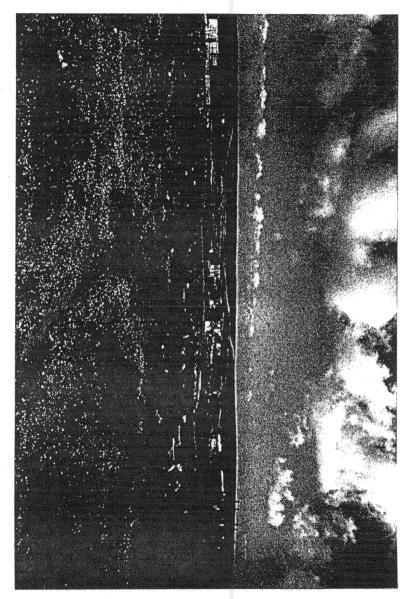
Suggested mitigation: none required

WN

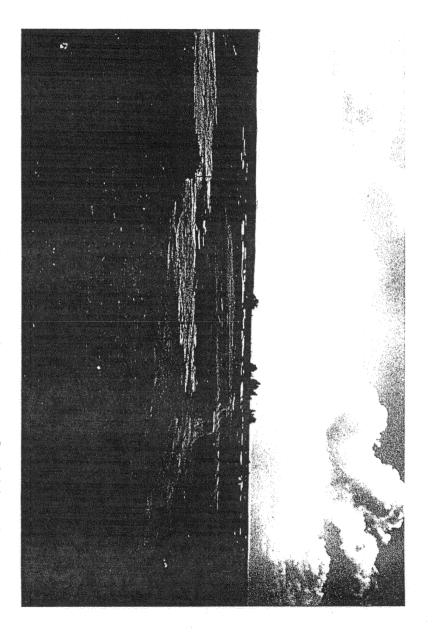
A term referring to the period between 250 000 and 20 000 years ago.

A term referring to the period between 2 million and 250 000 years ago.

A term referring to the last 20 000 years of precolonial history in southern Africa.



Lutzville West: The housing site. Figure 2. Phase 1 Archaeological Impact Assessment, Social Housing Project,



Lutzville West: The housing site. Figure 3. Phase 1 Archaeological Impact Assessment, Social Housing Project,

6.2 The oxidation dam

LTV 2

More than 40 MSA and LSA tools were located in and around the site for the proposed oxidation dam (Figures 1, 4 & 5). Some ESA tools were also found (Figure

were found The large collection of MSA tools comprise a variety of side-struck flakes, chunks, flaked stone, cores, utilised and unmodified flakes, and retouched tools. No points The large collection of MSA

pottery was found, suggesting that the LSA tools are older than 2000 years retouched tools (such as scrapers), chunks, cores and hammestones, silcrete. No The LSA tools comprises a range of mainly utilised and unmodified flakes, a few

cobbles, chunks, and a handaxe (see Figure 6). ESA tools in fine-grained quartzite included a few large flakes/cleavers, split/flaked

altered and degraded terrain. Some excavations and earthworks have already taken place in the surrounding area. These excavations may relate to the construction of a nearby shooting range. The remains of gravel road also crosses the site. The tools were located on hard gravels and compacted red sands, in a severely

Importance of finds: medium to low

Vredendal, or other appropriate venue could Suggested mitigation: none required, but perhaps a collection of be made for educational and display purposes at the museum in stone tools

6.3 The water pipeline

A few MSA flakes were found in the pipeline route leading to the proposed oxidation

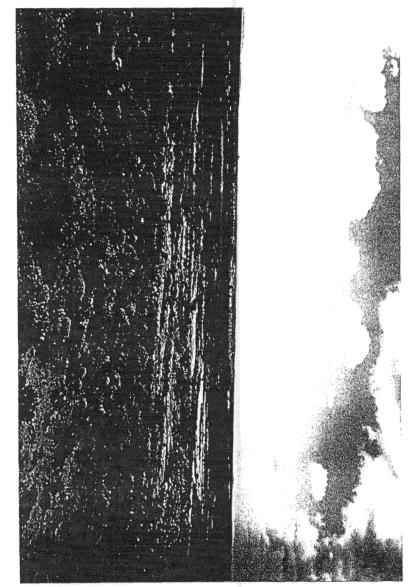
Importance of finds: low

Suggested mitigation: none required.

7. IMPACT STATEMENT

The overall impact of the proposed project on archaeological remains is likely to be

However, construction of the oxidation dam will impact negatively on archaeological remains, but the significance of the impact is likely to be low.



Lutzville West: The oxidation dam site. Arrow indicates the location of the dam. Figure 4 Phase Archaeological Impact Assessment, Social Housing Project,

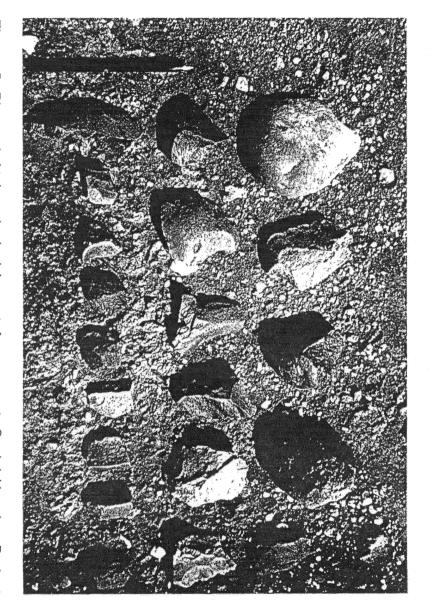


Figure 5. Phase 1 Archaeological Impact Assessment, Social Housing Project, Lutzville West: A collection of Later Stone Age and Middle Stone Age tools.

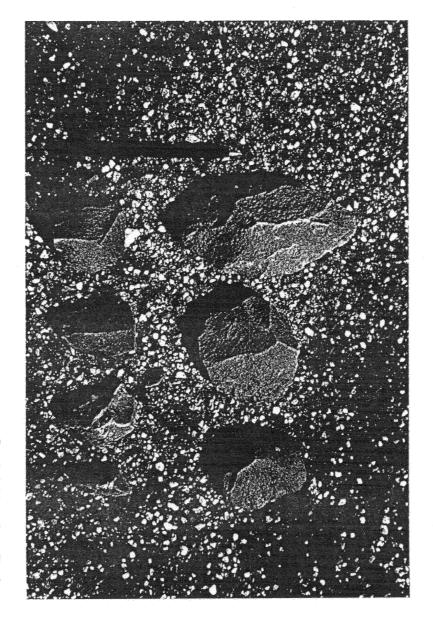


Figure 5. Phase 1 Archaeological Impact Assessment, Social Housing Project, Lutzville West: A collection of Early Stone Age and Middle Stone Age tools.

8. RECOMMENDATIONS

recommendations are made regard ð t e proposed Lutzville West Housing Project, Ħe e following

- No immediate archaeological mitigation is required.
- 0 oxidation dam, and kept for possible educational and display purposes at the museum in Vredendal, or other appropriate venue. small collection of tools could be made from the site of the proposed

No artefacts may be collected without a permit issued by SAHRA

- . disturbed The construction areas camp and plant site should be located only in already
- . an archaeological study being undertaken No new access road to the oxidation dam should be constructed without

The recommendations are subject to the approval of SAHRA

9. REFERENCES

University of Cape Town Hart, T. & Lanham, J. 1997. Phase 2 archaeological excavations at Namakwa Sands Site MS 2. Report prepared for Namankwa Sands Ltd. Archaeology Contracts Office,

Hart, Office, University of Cape Town. Bay Mine, T. 1999. A Phase 1 archaeological assessment of the proposed Liebenberg Vredendal. Report prepared for Rency (Pty) Ltd. Archaeology Contracts

prepared for Namaqua Diamond Company (Pty) Ltd Kaplan, J. 2001. Archaeological assessment, portion 3 (a portion of portion 2) of the farm Klip Vley Karoo Kop No. 153, Vredendal District, Cape West Coast. Report

Cultural Resource Management Kaplan, J. 2000. Archaeological study, Viswater/Papendorp Community Eco-Tourism Project. . Report prepared for SRK Consulting Engineers and Scientists. Agency for

Kaplan, J. 2002. Archaeological investigation proposed plant site and bulk sampling trenches Namaqua Diamond Company Vredendal District Cape West Coast. Report prepared for SRK Consulting Engineers and Scientists. Agency for Cultural Resource Management.



Agency for Cultural Resource Management

Specialists in Archaeological Studies and Heritage Resource Management

PO Box 159 Riebeek West 7306 Phone/Fax 022-461 2755 E-mail: acrm@wcaccess.co.za Cellular: 082-321 0172

30 August 2002

Mary Leslie SAHRA PO Box 4637 Cape Town 8000

Dear Mary

REPORTS: PHASE 1 ARCHAEOLOGICAL IMPACT ASSESSMENTS, PORTION 1 OF THE FARM HERMANUS-ONRUS RIVER NO. 542 CALEDON; KOEKENAAP; AND LUTZVILLE WEST

Please find copies of the above three reports

Yours sincerely

Jonathan Kaplan

