# Archaeological Excavations at CASR1

For Chand Environmental Consultants

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Sun International

Ву

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# INTRODUCTION

The site was originally surveyed in 1997, and was revisited in 2003 for re-evaluation CASR1. The site will be affected by the proposed N2 Interchange for the Sibaya Casino. Chand Environmental Consults, on behalf of Sun International, contracted the Institute Resource Management ð undertake salvage excavations

stated in the previous reports, test-pit excavations are used to determine the full potential excavations, whereby the site would be re-assessed in terms of potential future work. As pit excavations have fully mitigate this site The survey , and can indicate whether further excavations are required at the site. The testreport suggested that been completed, however, I believe further work is still required to seven days would be required for test-pit

association with Mzonjani pottery. This would be the first site on the aspect of the excavations preservation of other faunal remains components of the site domestic site yielded much information regarding features cattle remains in association with this time is the occurrence of potential domestic bovine remains in direct for both the Early Iron and finds. period. There Age and the Late Iron Age Eastern Seaboard to The more S also

The site is located just north of the Ohlanga River, and besides the N2 freeway.

#### MEIHOL

were 2 m x 2 m in size, and three were 2 m x 3 m in size sugar cane farming. A total of thirteen squares were excavated. Ten of these squares concentration of artefacts on the surface (Fig. 1). These surface artefacts are a Excavation Squares were placed throughout the site  $\exists$ areas where there

practice Artefacts Ine site and features were SPM excavated in 10 mapped according to accepted archaeological method and cm spits, unless obvious stratigraphy Sew present.

# STRATIGRAPHY

depth. Most of the LIA material is Age stone tools were located in this layer. Figures 2 and 3 illustrate the basic stratigraphy the hard brown aelion sand tends to have the EIA material. The basal layer (for the excavations) is material is also located in this layer. The following layer is Soft Brown Sand. This yellowof the site This site red clay-like is followed by a dark brown sand that varies between 15 cm and 35 has a basic layer referred to as stratigraphy. The surface sand varies from 15 associated with this layer, although some of the EIA the Berea Reds. Some Early and Middle cm to cm in CM

middens were located in the Berea Reds. Shell middens occurred in both the and EA levels. 5 square 4/4a the shell

### ARTEFACTS

#### Pottery

years ago, while the latter probably dates between 600 and 400 years ago (specifically the Mzonjani Phase) and the LIA. The former dates between 1 700 and 1 500 The pottery from the site can be divided into two phases of the Iron Age; the EIA phase

The Mzonjani pottery has various motifs that can be ascribed to this phase

- Hanging pendant motifs
- Single horizontal groove below the rim
- Cross hatching on the rim-neck
- Bands of alternate triangles on the shoulder

style has been attributed to the middle of the LIA further north along the coast undecorated Furthermore, some of these sherds have a red burnish on thin-walled pottery. This type of pottery cannot be ascribed on the rim-shoulder-body areas. ō  $\omega$ However, specific phase. several rims The pottery have lip notching tends 0 be

various functions pottery, ∃ general, includes vessels and bowls that would have been used

## Faunal Remains

that most of the larger animals are juveniles, with the occasional adult. be that of cattle, sheep/goats, and possibly small antelope. antelope. The faunal remains tend to be restricted to bovines. This includes domestic and Other animals include birds, possible suids, and fish. A brief site analyses suggests The bovine remains tend to Wild

they tend to belong to the LIA. However, the occurrence calcium carbonate, and thus preserve the organic material. Their tends to be poor preservation of faunal remains along the coast. This to increase of the soils. the preservation of such remains. This The pattern is that when faunal remains due occur on a <u>of</u> is because the shells excrete shellfish, or shell middens site. ascribed

high significance and is discussed later. The faunal remains at the site are in direct association with artefacts from both The occurrence of domestic bovines in association with Mzonjani pottery is of time

#### Metallurgy

versions were excavated Evidence for metal working at the site tends to items a few weighed approximately 1 kg. The tuyerés varied in size, and no complete include tuyerés and slag. Most of the slag be associated with the Mzonjani period pieces were on the small

few fragments of iron ore were excavated in the middle of the site

The metal working debris tends to occur in the middle of the site at Squares 6 and

#### Shellfish

but are probably not part of the diet. These include barnacles, and Ostridaea spp. (oyster) and Patella spp. (limpets). Other shell remains do occur at the site The shellfish at the site S predominantly Perna perna (brown mussel), followed by Tuvela spp

The shellfish tends to occur in shell middens across most of the site

#### Daga

grass-read impressions. The larger floor daga was observed in the middle of the site. Granary daga occurred along (or southern) parts Two kinds of daga occur at the site: Granary and hut floor daga. Only one piece of hut of the site. These granary fragments daga fragments tended varied in size and many had to be burnt on one the upper pole and

# Miscellaneous artefacts

squares occupation sorghum and millet were Several upper and lower grinding stones were excavated. All of these Other may predate the 1500s. No upper grinding stones for maize were observed stones consisted processed at the site. This in turn suggests that both phases of fire cracked rocks. These were located in several suggest that

associated with the LIA occupation. One dagga pipe fragment was excavated from the upper layers of Sq. 6. Si Ji probably

Stone Various Age flakes and stone tools were observed cores. One hand-axe was observed on the surface as at the site. These tend to be typical Middle well as several Late Stone

### FEATURES

concentrations, pottery concentrations, pits, and shell middens Several types of features OCCUI a the site. These include bone concentrations, daga

### Shell Patch 1

however it thickens in the southwestern corner. The upper parts of this steeply in the corner. charcoal and dark brown sand. The main lens fragmented This lens is concentrated along the southern part of the square, although it slopes Patch 1 is shell due located in Spit 3 Ó ploughing activity. Just above this midden of Sq. 4. It tends to extend is compacted brown mussel ± over most of the square, S midden tend to be Ø thin layer of S cm thick

fragments 8 be burnt shell do occur. remains The shell at the interface are mainly of brown mussel, although of the brown sand and some Shell Patch 1 ouster and limpet

### Shell Patch 2

cm wide, although it extends into Sq. 3A (fig.'s 5 Shell Patch 2 is located in the southern parts of Sq. 3 and in Spit 3. It is ± 170 cm x 100 & 6)

rocks, pottery, and bone were recovered. No burnt shell fragments were observed Shell Patch and partly N consists mainly of disturbed by rootlets brown mussel, oyster, and animal burrows. and limpets. Several fire-cracked The midden is

A total of 13.5 buckets of shell were removed

### Shell Patch 3

and limpet fragments. Several faunal remains occur from this midden. It occurs in the SBS (fig. 6). The shell consists mainly of brown mussels and a few oyster SP3 is a shell midden in Spits 3 - 4 inSq. 3. It is ±60 cm in diameter and ± 7 cm deep

### Shell Patch 4

pit in the middle of the pit and at its base. Each layer is separated by the brown-charcoal 4). SP4 extends southwards and dips down in the southwestern section. with SP4 is associated with the Mzonjani Phase of the site sand. A few faunal remains were removed from the pit. The decorated pottery associated layer that is flecked with charcoal and is ±25 cm deep. There are two layers of shell in this SP4 is a small pit, called Pit in SP4 (PSP4). Sp4 caps this spit. PSP4 is a brown sandy SP4 occur in Sq. 3A. SP4 occurs below SP2 and is located in the Berea Red sand (fig. At the base

### Shell Patch 5

mainly of brown mussel. A total of 4.5 buckets were removed from this midden (fig.'s 7-8). It is a compacted shell lens  $\pm$  5 cm deep with no artefacts. The shell consists SP5 occurs in Spits 4 - 9 in Sq. 11. It is a narrow shell midden running east to west

# Shell Patches 6 – 9 and Pits 7 - 8

northern section. It is located below SP5 and is separated from 3 cm -SP6 occurs in 5 cm thick. Spit 4 - 9 in Sq. 11. SP6 angles sharply downwards (at ± 80°) along the SP6 is situated above Pit 8 (fig.'s 7-8). SP5 by a sandy layer that

also located along the west section. It is ±10 cm in diameter. SP7 is located Pit 7, while SP8 is located at the base of Pit 7. SP9 occurs at the base of Pit 7 (fig.'s 7-8). a small shell patch in the west section. It is  $\pm$  30 cm x 20 cm in diameter. SP8 is at the top of

separation was evident during the excavation. Both pits are located below the Dark Brown few centimeters of sand. Whilst this does not show in the section drawings (fig. 9), the associated with the Mzonjani Phase of the site. These pits and shell patches extend into the north and west sections, respectively It appears that Pit 7 and 8 are two shell lined pits besides each other separated by a and are surrounded by the Soft Brown Sand. This suggests that these

### Small Ash Pit

cm wide and ±10 cm deep. The sand tends to be ashy with fragments of shell. Two thintotal of seven buckets of shell were removed. This ash pit is located in the north eastern corner of Sq. 4. The excavated pit is pottery sherds, an upper grinding stone and charcoal fragments were removed. A

# **Grey Sandy Feature**

size and texture of the soil suggests that it is an ash pit. 30 cm deep. No artefacts were removed from the pit, but the colouration is located in the northern section of Spit 5 in Sq. 1. It is ±100 cm x 30 cm in

#### Ash Pit 1

pit is a small ash pit of black sand with small charcoal fragments Ash Pit 1 is located in Spit 3 of Sq. 3. It is ± 50 cm in diameter and ± 10 cm deep. The

# Brown Sandy Pit

of a few Mzonjani pottery sherds. It appears to be a fire pit. The pit is defined by a soft brown-black sand pit in the Soft Brown Sand. The pit consisted Brown Sandy Pit is located in Spit 3 of Sq. 7. It is ±60 cm in diameter and 31 cm deep.

#### T-Pit

beneath it is Reds and is possibly part of the Mzonjani phase of the site. located in Spit 6 of Sq. 8. possible tibia from domestic The pit is a small bowl-shaped depression of shell and cattle. This basin is on the top of the

#### Pit 3

of shell in the pit. These occur at the top, middle, and base of the pit. Each cluster consists of ±3 brown mussels. Some charcoal occurs in the pit as well. Pit 3 is located in Spit 6 of a dark ashy soil and a few adiagnostic pottery sherds. There are three of Sq. 8. It is ±50 cm x 20 cm wide and 68 cm deep The pit

#### Pit 5

sherds 21 cm deep. Pit 5 is located in Spit 3 of Sq. 10. The pit is ±30 cm in diameter and between 11 cm Pit 5 is a small shallow pit in fine black sand and has three undecorated

#### Pit 6

appears to be a domestic bovine. sherds, and faunal remains. Pit 6 is located in between 15 Spit 4 in the southwestern corner of Sq. 6a. It is ±55 cm in diameter CM The faunal remains include a long bone and tooth of what Ö 42 SH = depth. he pit has daga tragments,

#### Pit 9

occurs in the middle of this pit. The pit appears to be lined with brown mussel, although small depression in a fragmentary shell patch (part of SP1). A large pottery sherd appears suggests that they had not been eaten after they were processed Pit 9 occurs in Spit 3 of Sq. 4. Pit 9 is 35 cm long, 27 cm wide, and 14 cm deep. It is a oyster and limpet occur as well. Many of the brown mussels are still closed. This

## Grey Ashy Soil

soil is a grey powder-like middens (that require further excavations). No artefacts are associated with this feature. GAS occurs in Spit 3 of Sq. 4A. GAS is ± 20 cm wide, 60 cm long, and 4 cm deep. The soil and appears to be ash. It is situated between two shell

### Black Ash Pit

soft blackish sand dug into the SBS. The excavated part of the pit is ±30 cm in diameter and 62 cm deep. Mzonjani pottery is associated with pit. Black Ash pit occurs in the southwestern corner of Spit 5 in Sq. 7. The pit consists 0

# Dark Grey Soil Pit

artefacts carapace, and small charcoal fragments 70 cm DGSP occurs in the eastern parts of Spit 3 of Sq. 6. It is ± 50 cm in diameter and 60 cm include: deep (fig. 9). The soils is a mixture of some charcoal flecked sand). goat/sheep incisor, small pottery fragments, a Very few artefacts were SBS, with a removed from fragment of dark grey-black this pit. These a tortoise

# Daga Concentrations

cm x grass impressions. Daga 60 cm wide, and 10 cm deep (fig. 2). The daga is granary daga and has Concentration 1 occurs in Sq. 6/6A in Spit 3 along the southern section. It is Along the southern parts of this concentration are several Mzonjani pole and

granary feature Daga daga fragments Concentration 2 and is located in tend to be burnt. Mzonjani pottery Spit 4 of Sq. 8. lt is 20 cm x 15 cm wide. S associated with These Sin

deep. It consists of several daga fragments, fire cracked rocks and shale fragments Daga Pit occurs in Spit 4 of Sq. 8. The excavated pit is ± 70 cm in diameter and 32 cm

# **Bone Concentration**

several animal. Several small rocks are located in this concentration. metapodials main Bone foreand and metacarpals/-tarsals. hindleg concentration occurs bones of a It appears possible in Spit 3 domestic bovine of Sq. 6. that this The concentration consists S the remains these of include a single the

# **Pottery Concentrations**

remains of individual pots concentrations (PC) occur in a few squares 9 the site and are probably the

pottery is undecorated but appears to be related to the Mzonjani Phase of the site PC1 occurs in Spit 4 of Sq. 6/6A. PC1 is ±50 cm in diameter and 20 cm deep.

Mzonjani pottery PC2 occurs in Spit 2 of Sq. 7. The pottery may be in a pit ±20 cm deep. The pottery is

sherds. A fragment of a bowl has a graphite burnish on the rim. PC3 occurs in Spit 6 of Sq. 8. PC3 occurs in the SBS and consists of several Mzonjani

at least three different Mzonjani vessels PC4 occurs in Spit 5 of Sq. 3. It is ± 40 cm in diameter. The pottery fragments are from

occupation black in colour PP1 is a concentration of pottery sherds and undecorated, I believe the pottery is associated and bone in Spit 5 of Sq. 10. with the LIA The

# Slag Concentration

south or west of this square extend further south. The shape of the slag suggests that a furnace may be located to the The artefacts include Mzonjani pottery, a few bone fragments, tuyeré fragments, The Slag slag, and Concentration occurs in Spit 5 of Sq. 3 small slag fragments. These occur in It is the south ± 90 cm long and 30 cm wide section and probably basin-

# CONCLUSIONS AND FUTURE MANAGEMENT

required if the test-pit excavations revealed significant information. significance CASR1 was excavated over a seven day period as of the excavations site. The survey report clearly stated that more excavations Were test-pit excavations and were used part of the initial mitigation of the to determine the might be

occur along the upper parts of the hill, while shell middens occur on the outskirts of the This suggests that houses were placed along the outskirts of the site during the Late excavations have yielded significant artefacts in terms of preservation and spatial Several pits and shell middens were located across the site. The pits tend to

settlement Little spatial information was obtained from the Early iron Age phase of the site. pottery concentrations, or pits, did occur, it is not enough to obtain a layout for the While

no Mzonjani domestic cattle remains possibly associated with the Mzonjani layer. This onto the organic preserved of the excavations. Another shell midden also requires further excavation. The main significance possible domestic cattle in the Mzonjani layers of the site by remains are a larger faunal sample from this excavating more shell middens. remains). Bone is well preserved in and below the middens. along the KwaZulu-Natal direct result of the shell middens (calcium carbonate leaching of the site is in the preservation of organic remains. The well site is thus required. This sample would be This process coastline, have had begun on the last two days yielded domestic another square is significant as One square

nearby, or below, earthmoving phase of construction. site. Several shell middens occur on the site and these would require monitoring during the faunal remains. This suggests that there is a possibility of human remains occuring at the personal observations of Late Iron Age burial practices are that they tend shell middens. CASR1 has several shell middens and well preserved

mitigation. On-site monitoring should also occur during the earthmoving phase occur before earthmoving continues. The site has significant material that necessitates this summary, the mitigation for CASR1 is incomplete and further excavations should

future time constraints of the development. the miligation immediately after the initial excavations; however, the developer queried the The mitigation should mitigation, occur as and delayed this mitigation. soon as possible. The ICRM was prepared to undertake The developer is thus liable