

The Archaeological Survey of the Zulti North Mining Lease

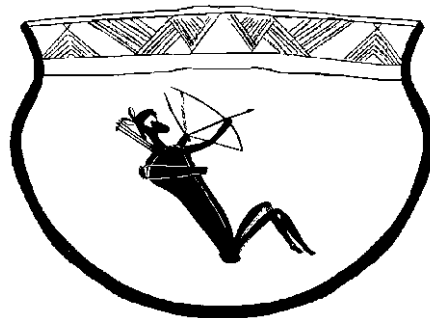
For Richards Bay Minerals

Date: 2008 Annual Report

By Gavin Anderson and Louise Anderson

**Umlando: Archaeological Tourism and Resource
Management**

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INTRODUCTION

Umlando was contracted by Richards Bay Minerals (Pty) Ltd to undertake archaeological surveys and excavations in the Zulti North mining lease. These surveys consist of bi-monthly surveys, while excavations occur when needed. A total of 25 new sites were recorded, 8 sites were continuously monitored and sampled, and 2 sites were excavated. Only one site is worthy of notice, MPE77. It appears that MPE is heading towards an archaeologically dense area, whereas the other mines seem to be heading to archaeologically less dense areas.

Some rare artefacts were observed and sampled and one site has high excavation potential.

METHOD

All sites are grouped according to low, medium, and high significance for the purpose of this report. Sites of low significance have no diagnostic artefacts, especially pottery. Sites of medium significance have diagnostic artefacts and these are sampled. Sampling includes the collection of artefacts for future analysis. All diagnostic pottery, such as rims, lips, and decorated sherds are sampled, while bone, stone, and shell are mostly noted. Sampling occurs on most sites. Sites of high significance are excavated and/or extensively sampled. Those sites that are extensively sampled have high research potential, yet poor preservation of features. We attempt to recover as many artefacts from these sites by means of systematic sampling, as opposed to sampling diagnostic artefacts only.

Defining significance

Archaeological sites vary according to significance and several different criteria relate to each type of site. However, there are several criteria that allow for a general significance rating of archaeological sites.

These criteria are:

1. State of preservation of:

1.1. Organic remains:

1.1.1. Faunal

1.1.2. Botanical

1.2. Rock art

1.3. Walling

1.4. Presence of a cultural deposit

1.5. Features:

1.5.1. Ash Features

1.5.2. Graves

1.5.3. Middens

1.5.4. Cattle byres

1.5.5. Bedding and ash complexes

2. Spatial arrangements:

2.1. Internal housing arrangements

2.2. Intra-site settlement patterns

2.3. Inter-site settlement patterns

3. Features of the site:

3.1. Are there any unusual, unique or rare artefacts or images at the site?

3.2. Is it a type site?

3.3. Does the site have a very good example of a specific time period, feature, or artefact?

4. Research:

4.1. Providing information on current research projects

4.2. Salvaging information for potential future research projects

5. Inter- and intra-site variability

5.1. Can this particular site yield information regarding intra-site variability, i.e. spatial relationships between various features and artefacts?

5.2. Can this particular site yield information about a community's social relationships within itself, or between other communities?

6. Archaeological Experience:

6.1. The personal experience and expertise of the CRM practitioner should not be ignored. Experience can indicate sites that have potentially significant aspects, but need to be tested prior to any conclusions.

7. Educational:

7.1. Does the site have the potential to be used as an educational instrument?

7.2. Does the site have the potential to become a tourist attraction?

7.3. The educational value of a site can only be fully determined after initial test-pit excavations and/or full excavations.

The more a site can fulfil the above criteria, the more significant it becomes. Test-pit excavations are used to test the full potential of an archaeological deposit. These test-pit excavations may require further excavations if the site is of significance. Sites may also be mapped and/or have artefacts sampled as a form of mitigation. Sampling normally occurs when the artefacts may be good examples of their type, but are not in a primary archaeological context. Mapping records the spatial relationship between features and artefacts.

RESULTS

MINING POND A

MPA39

MPA39 consists of diagnostic and adiaagnostic pottery, upper and lower grinding stones, bovid bone, at least two shell middens, and a human burial. The site extends across the top of the dune.

Upon arrival on the site, it was clear that the skeletal remains were no longer in tact. The mandible was the only part that was not fragmented. The remains appear to be that of an elderly person since the remaining teeth of the mandible are completely ground away. All remains were removed and the site was sampled.

Significance: The site is of medium significance and will be monitored

MINING POND C

No new sites recorded.

MINING POND D

MPD80

MPD80 consists of a scatter of adiaagnostic pottery and *P. perna* over a small area. It is very ephemeral and has been disturbed by bulldozer activity.

Significance: The site is of low significance.

MPD81

MPD81 consists of a scatter of adiaagnostic pottery and *P. perna* over a small area. The site is an ephemeral scatter of artefacts and has been disturbed by bulldozer activity.

Significance: The site is of low significance.

MPD82

MPD82 consists of a scatter of *P. perna* over a small area, as well as a single lower grinding stone. It is very ephemeral and has been disturbed by bulldozer activity.

Significance: The site is of low significance.

MPD 83

MPD 83 is located on the northeast of Shark Tooth Midden (STM). The contents of the site have been partially dispersed by bush clearance and still extend into the adjacent forest.

The site consists of the remains of the old metal charcoal burners and the living areas (made from containers) of the associated people. We believe this area was deserted between 1996 and 1999. It is not an archaeological site, but is still important in the context of Living Heritage of the area. We surveyed the area for rubbish dumps, etc. but could not locate any: these are probably still underneath the dense vegetation.

The site is of low significance and currently requires no mitigation. We will monitor the area for artefacts as it could be viewed as a Living Heritage site.

Significance: The site is of low significance.

MPD85

MPD85 was a large midden at one stage; however, it has slumped during the mining process. The site was a thick layer of large *P. perna* and oyster (~15cm thick). It appears to have been a thick midden and judging by the size of the *P. Perna*, probably dates to the Early Iron Age. The midden extended for ~20m in length, however, there is such a small amount left, that it is only worth sampling. Only a few pottery sherds remain and these are all very thick and appear to be the bases. I sampled some of the *P. perna* and oyster fragments. There were several upper grinding stones along the slope.

Significance: The site is of low significance.

MINING POND E

MPE63

MPE63 was revisited as we have been monitoring it since it was exposed in 2007. We sampled some large bovid bones.

Significance: The site is of low significance.

MPE71

MPE71 is located on a small dune in the middle of the dune system. The site consists of a single shell midden, scattered over a 10m x 10m radius. Some adiagnostic pottery occurs, as well as fish bone and white beach sandstone fragments. The latter are probably the remains of lower grinding stones. The shell midden consists mainly of *P. perna*, although there are some whelk and limpets.

Significance: The site is of low significance.

MPE72

MPE71 is located on a small dune in the middle of the dune system. The site consists of a single shell midden along the road cutting that may extend further into the vegetation. The shell includes *P. perna*, limpet and whelk. The pottery is adiagnostic.

Significance: The site is of low significance.

MPE73

MPE73 is located on the first dune from Lake Nhlabane. The site consists of an ephemeral scatter of shell, mainly *P. perna*, and some adiagnostic pottery.

Significance: The site is of low significance.

MPE74

MPE 74 is a previously recorded site, which we have revisited since its original recording in March 2008. It is located on a small dune that forms part of the larger dune ridge, closest to Lake Nhlabane. The site has been sampled before where shell-impressed decorated sherds were observed, as well as grinding stones, marine shell, and animal bones.

We expected to find human remains, although it took further clearance for them to be exposed. Upon arrival on site, it was clear that there were not one, but three burials. All three burials had partially to fully collapsed down the face of the dune.

SK1: SK1 is a fragmented human skeleton. None of the remains was *in situ*. A single, medium-sized, white glass bead was found alongside some of the remains. The skeletal remains were partially well preserved, however less than 50% were recovered. The long bones, a few digits, vertebrae, and cranium fragments were recovered. The mandible was broken in two. Judging from the mandible and teeth remains, the skeleton is that of an older male. All molars had erupted, and some had been lost. The teeth were also ground down.

SK2: SK2 is a partial human skeleton. Only the lower parts of the skeleton were recovered and all of these were lying on the surface. The long bones of both legs and the fragmented pelvic bone was recovered.

SK3: SK3 is a fragmented human skeleton. Some of the lower parts of the remains were still *in situ* and in a relatively good state of preservation. The upper parts of both legs, the lower part of the right leg, including the anklebones and a few digits were recovered from the surface. The lower part of the left leg, including the foot, as well as the right foot was *in situ*. Most of these bones were recovered.

Some adiagnostic pottery was found alongside the remains, but this may simply have filtered down from the surface.

From the surface and *in situ* positioning of all the remains, it seems as if they were buried upright, facing west, or sunset. They are approximately 30m apart and as far as was possible they were removed completely.

The site remains sensitive and will be monitored for as long as it is still in existence.

MPE75

MPE75 is located on the second dune from Lake Nhlabane. The site consists of a single shell midden, fragments of bone (bovid?), adiagnostic pottery, lower grinding stones and a *daga* floor fragment with reed mat impressions (see fig. 1).

Significance: The site is of low significance. The read mat impression is rare.

MPE76

MPE76 is located further east from MPE74 along an unused track to the right. It consists of at least three small shell middens and scatters of pottery and stone. The shell is mainly brown mussel and oyster. The pottery is adiagnostic and the stone consists of white beach sandstone fragments.

Significance: The site is of low significance.

MPE77

MPE77 is located on the back road to MPE. It possibly extends into the adjacent bush. The site consists of at least three small shell patches and two large semi-intact shell middens. The shell is mainly brown mussel. On the surface is a scatter of adiagnostic pottery, some with a black burnish. We also recorded various grinding stones and bovid bones.

The site is of medium significance and will require test pit excavations. The test-pit excavations are discussed below.

MPE78

MPE78 is located further northwest from MPE77 on a small dune ridge. The site consists of a scatter of adiagnostic pottery, brown mussel, an upper grinding stone and some iron ore.

Significance: The site is of low significance.

MPE79

MPE79 is located on the eastern side of a high dune where MPD is currently stationed. The dune is in the middle of the dune system. The site consists of at least three shell middens. The shell is mainly brown mussel .On the surface is a scatter of adiagnostic pottery and coral. We also recorded various upper grinding stones.

The site is of medium significance and we will monitor it for human remains and other artefacts.

MPE 80

MPE 80 is located directly northwest from MPE71, approximately 90m away, on the tallest dune, on the first inland dune cordon. The site consists of an ephemeral scatter of undecorated pottery and brown mussel.

The site is of low significance and needs no further mitigation.

MPE 81

MPE 81 is located directly SE from MPE 71, approximately 300m away, on the top of a high dune. The site consists of a scatter of undecorated pottery, brown mussel, white beach sandstone, lower grindstones and upper grindstones.

The site is of medium significance and will be monitored for human remains.

MPE 82

The site is a small scatter of adiagnostic sherds and one fragment of bog iron on the top of the hill. There are several small stones associated with a shell middens, and this midden is probably still under the bush.

Significance: The site is of low significance.

DRY MINING AREAS

There are three dry mining areas within the mining operations. Unlike the mining ponds, these areas are excavated by front-end loaders, and then dump the material into large (mobile) sieves. The operation is much smaller than the ponds. It is for this reason that most of the reported human remains are from these areas, as they are more easily observed.

AMS7a

This site is located near AMS7, however it is slightly more west and is not part of the iron smelting site. The pottery is undecorated with rims and lips. Two pieces of slag were found (but probably from AMS7). The stone material consists of two shale small-end scrapers, general flakes and irregular cores, a polished shale fragment, and upper/lower grinding stones. The shell is similar to that of MPD76 and AMS9. The shell consists of *Perna perna* and *Patella spp.* (more of the latter). The bone consists mostly of bovid bone, one human rib and humerus, and possible aquatic mammal remains.

More interestingly is the remains of a glass bottle. This bottle has the 'pineapple motif', and is an old cooldrink bottle. This type of bottle and motif dates to between 1890 and 1910 AD. This is interesting in that the site dates just before people were relocated from the dunes in the early 1940s. It is not often when we can obtain such a precise date from a site.

Significance: The site is of low-medium significance and will be monitored.

AMS13

AMS13 is located on the back road from MPE towards AMS North. The site possibly extends into the adjacent bush. It consists of a scatter of diagnostic pottery and a small shell patch consisting of brown mussel.

Significance: The site is of low significance.

AMS14

AMS14 is located further SW from AMS13 on the top of a high dune. The site consists of a scatter of adiagnostic pottery and limpets.

Significance: The site is of low significance.

AMS15

AMS15 is located near AMS North. The site possibly extends into the adjacent bush. It consists of an ephemeral scatter of adiagnostic pottery on the surface.

Significance: The site is of low significance. No further mitigation is required.

AMS16

AMS16 is located on the first dune cordon from the lake. It consists of an ephemeral scatter of *P. perna* and *Patella spp.* on the surface.

Significance: The site is of low significance. No further mitigation is required.

AMS17

AMS17 is located on the small dune east of AMS16. It consists of a scatter of adiagnostic pottery, white beach sandstone grinding stone and a *P. perna* midden.

The site is low significance. No further mitigation is required.

AMS 18

A fragment of an upper cranium was found in the sieves at AMS South. The cranium came from an area where there have been no recorded sites (we have surveyed that

area for over 4 months). The only other ecofact is an otolith that was located on the same hill of that dune. The remains appear to be recent in age, due to the well-preserved cranium.

EXCAVATIONS

Two sites were excavated in July and August.

STMB

STMB is a well-known site that has been excavated periodically since 2001. The main excavations were completed in 2007, however we noted that there might be a second living area after bush clearance had occurred at the southern part of the main site. We placed eight 1m x 1m squares in the cleared area, however only a few fragments of shell and a single grinding stone were observed. We now presume that the site does not extend to this area.

We also excavated a small midden that occurred on the northwestern edge of STMB. Most of this midden was removed, and only a small part remains. We will return to this area at a later stage. The midden is not significant; however, it is the last midden from STMB and we believe it is necessary to remove it as all other middens were removed.

MPE 77

MPE 77 was recorded in June 2008, and noted for test-pit excavations to establish the significance of the site. In July/August, we opened two squares from which four shell lenses were excavated. The lenses varied in thickness and size. The basal lens became two large pits. The excavations extended for ~60cm below the surface.

Some of the artefacts include well-preserved bone (small and medium bovid, bird and fish), in association with *in situ* marine shell and diagnostic pottery. This will enable us to radiocarbon date the site at a later stage. We also found an unusual glass bead. The bead was transparent glass with a bit of red on the outside (fig. 2). The excavations yielded decorated pottery that belongs to both the Early Iron Age and the Late Iron Age.

Subsequent visits to the site have noted that it extend for at least 10m westwards, and 20m northwards. A substantial deposit occurs beneath the vegetation. We also sampled a ceramic disc that appears to be an earlobe plug (fig. 3). If this proves to be correct, it would be the first earlobe plug recorded in the dune system.

The test excavations at MPE77 (fig. 4) yielded well-preserved remains, especially those of charcoal and faunal remains in conjunction with decorated pottery and marine shell. The occurrence of in situ datable charcoal and bone is rare in the dune system. We have noted possible human remains near the midden Table 1 lists the artefacts as they were excavated.

The main deposit dates between 1400 – 1600AD. However, we were surprised to find Early Iron Age material in the lower deposit as well.

The test pit excavations indicate that there is a good chance of obtaining more organic material. MPE 77 will be further excavated in future to extract as much information as possible. We intend to excavate the site for 2 weeks in 2009, whereupon we will reassess the site in terms of its value and significance. The site is marked for mining in late 2009.

TABLE 1: LIST OF ARTEFACTS FROM TWO TEST-PIT EXCAVATION SQUARES AT MPE77

Sq.	Quad	Layer	Bone (grams)	Charcoal (grams)	Fish	Bird	Small Bovid	Large Bovid	Upper G/stone	Lower G/stone	Nassa. Beads	Glass Beads	Metal	Pottery (grams)	Total Shell Weight (grams)	Bead / Pottery Description
1	all	Surface	18	14	x	-	x	-	1	1	1	0	0	50	3308	
1	NW	Lens 1	178	20	-	-	-	x	0	1	1	0	0	50	2142	
1	SE	Lens 1	58	34	x	-	x	-	0	0	0	0	0	132	3264	
1	SW	Lens 1	0.5	10	-	-	-	x	0	0	0	0	0	10	1052	
1	?	Basal 1	10	0.5	-	-	-	-	0	0	1	0	0	48	416	
1	NW	Lens 1	0.5	0.5	-	-	-	-	0	0	0	0	0	56	62	
1	NE	Lens 1	8	10	-	-	X	-	0	0	0	0	0	220	2786	1 rim
2	SE	Lens 1	18	32	x	-	X	-	1	0	0	1	0	128	2078	navy blue glass bead
2	SW	Lens 1	34	20	x	-	X	-	0	0	0	1	0	50	1372	transparent bead with red ochre
2	NW	Lens 1	16	20	-	-	X	-	0	0	0	0	0	50	1664	1 incised rim
2	NW	Basal 1	0.5	0.5	-	-	-	-	0	1	1	0	0	22	184	
2	NE	Basal 1	0.5	0.05	-	-	-	-	0	0	0	0	0	16	210	
2	SW	Basal 1	8	0.5	x	-	X	-	0	0	0	0	0	36	238	
2	SE	Basal 1	0.5	0.5	-	-	-	-	0	0	0	0	0	8	206	
2	NE	Lens 1	0.5	28	-	-	X	-	0	0	0	0	0	50	2328	
2	NE	Lens 1	18	12	-	-	-	-	0	0	0	0	0	10	1336	
Total Lens 1			369	202.55	0				2	3	4	2	0	936	22646	
1	SE	Lens 2	22	4	-	-	-	-	0	0	1	0	0	58	536	
1	?	Basal 2	20	6	X	-	x	-	0	0	3	0	0	100	1134	
1	SW	Lens 2	98	8	X	-	-	x	0	0	0	0	0	100	3000	
1	NE	Lens 2	84	0.05	X	-	x	x	0	1	0	0	0	84	1890	
2	SW	Basal 2	6	4	X	-	x	-	0	0	1	0	0	50	508	lip notching, stamped sherd
2	SW	Lens 2	74	12	X	x	x	-	0	0	2	1	0	100	1752	light green bead, comb stamped sherd, 3 rims
2	NE	Basal 2	32	6	X	-	-	x	0	0	0	0	0	100	548	horizontal line below rim, lip incisions
2	SE	Lens 2	40	14	X	-	x	-	0	0	0	0	0	20	1048	
2	SE	Basal 2	28	10	-	-	-	-	0	0	0	0	0	146	514	1 rim
2	NW	Basal 2	32	4	-	-	-	-	1	0	1	0	0	138	630	
2	NE	Lens 2	22	4	X	-	x	-	0	0	0	0	0	80	744	2 rims
2	NW	Basal 2	0	0	-	-	-	-	0	0	0	0	0	448	0	
Total Lens 2			458	72.05					1	1	8	1	0	1424	12304	

Sq.	Quad	Layer	Bone (grams)	Charcoal (grams)	Fish	Bird	Small Bovid	Large Bovid	Upper G/stone	Lower G/stone	Nassa Beads	Glass Beads	Metal	Pottery (grams)	Total Shell Weight (grams)	Bead / Pottery Description
2	NE	Basal 3	0.5	0.5	-	-	-	-	0	0	0	0	0	23	186	
2	NW	Basal 3	18	0	x	-	x	-	0	0	0	0	0	94	690	1 rim
Total Lens 3			18.5	0.5					-	0	0	0	0	117	876	
2	NE	Lens 4	58	10	x	x	x	x	0	0	0	0	0	100	1288	comb stamped, incised line, 3 oblique lines on rim (Mzonjani)
2	SW	Lens 4	28	26	x	x	x	-	0	0	0	0	0	100	1066	3xrms, 1x incised horizontal line, comb stamp motif of triangles
2	NW	Lens 4	0.5	18	x	-	x	-	0	0	0	0	0	20	928	1 incised rim
2	NE	Lens 4	40	22	x	-	-	x	0	0	0	0	0	50	1580	
2	NW	Lens 4	26	36	x	-	-	-	0	0	2	0	0	50	1284	
2	SE	Lens 4, Pit 1	52	36	x	-	x	-	0	0	0	0	0	100	2564	red burnish, comb stamping
2	SE	Lens 4, Pit 1	34	18	x	-	x	x	0	0	0	0	0	50	1476	1 rim
1	NE	Lens 4, Pit 2	34	30	x	-	x	-	0	0	2	0	0	50	1962	1x incised rim
1	SW	Lens 4, Pit 2	78	16	x	-	-	x	0	0	1	0	1	578	2300	1x rim sherd
1	SW	Lens 4, Pit 2	36	24	x	-	x	-	0	0	0	0	0	364	2052	
1	SE	Lens 4, Pit 2	28	22	x	-	x	-	0	0	0	0	0	176	2200	4 rims, 2 incised lips
1	NW	Lens 4, Pit 2	52	28	x	-	-	x	0	0	0	0	0	358	2184	
1	NW	Lens 4, Pit 2	42	20	x	-	x	x	0	0	2	0	0	170	1392	1 rim, 1 boss for rope
1	NE	Lens 4, Pit 2	26	16	x	-	x	x	0	0	0	0	0	330	1366	2 rims, 2 incised lip, 1 comb stamp
1	SE	Lens 4, Pit 2	30	14	x	-	x	-	0	0	0	0	0	230	1856	2 rims
Total Lens 4			564.5	336					0	0	7	0	1	2726	25498	
rand Total			1410	611.1	0	0	0	0	3	4	19	3	1	5203	61324	

FIG. 1: MAT IMPRESSIONS AT MPE75



FIG. 2: CLEAR GLASS BEAD FROM MPE77

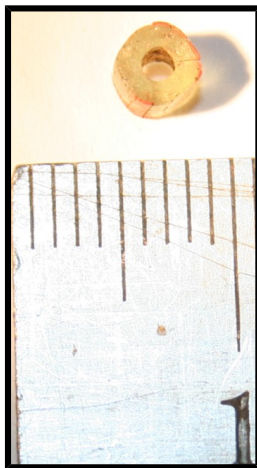


FIG. 3: POSSIBLE “EAR PLUG” FROM MPE77



FIG. 4: EXCAVATION OF TWO SQUARES AT MPE77



CONCLUSION

Umlando surveyed, monitored, and excavated various sites in the RBM mining lease in 2008. Several new sites were recorded; however most of these were of low significance. Five human skeletons were excavated and removed and two sites were excavated. Most of the sites were sampled.

The one excavated site will require further excavations and this will be undertaken in 2009 over a 2 weeks period. We will then reassesses the site in terms of its significance of organic remains artefactual content.

We have submitted the database to RBM, KZN Heritage, and the Natal Museum as per agreement.

The survey results and management of the sites is in accordance with the KZN Heritage Act.

**APPENDIX A
SITE RECORD FORMS**

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age: LSA

Early Iron Age:

Late Iron Age

Historical Period: X



Recorder's Site No.: AMS7a

Official Name:

Local Name:

Map Sheet:

Map Reference: S28 33' 39.3", E32 20' 28.8" (alt 51m)

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is along first dune cordon from the side of Lake Nhlabane.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: sampled

Threats: Yes

What threats: RBM

RECORDING:

Details of graphic record:

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 12/02/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

This site is located near AMS7, however it is slightly more west and is not part of the iron smelting site. Pottery is undecorated with rims and lips. Two pieces of slag were found (but probably from AMS7). Stone consists of 2x shale small-end scrapers and irreg. cores, polished shale fragment, upper/lower g/stones. Shell consists of *Perna perna* and *Patella spp.* (more of the latter). Bone consists of mostly bovid and possible one human rib and humerus, and possible aquatic mammal. Glass bottle has a 'pineapple motif', and is a cooldrink bottle. It dates to between 1890 and 1910 AD.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age: x

Historical Period: x

Recorder's Site No.: AMS13

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 34' 24.1" E: 32 20' 50.0" Alt: 77m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on the back road from MPE towards AMS North; it possibly extends into the adjacent bush.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: Yes

Threats: Yes

What threats: RBM Mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 09/06/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

Site consists of a small brown mussel shell patch and a scatter of adiagnostic pottery.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age: x

Historical Period: x

Recorder's Site No.: AMS14

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 34' 27.4" E: 32 20' 44, 5" Alt: 87m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on a high dune further SW from AMS13.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: Yes

Threats: Yes

What threats: RBM Mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 09/06/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of a scatter of adiagnostic pottery and limpets.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age:

Historical Period: x?

Recorder's Site No.: AMS15

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 34' 21.88" E: 32 20' 50.76" Alt: 83m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on the LHS of the back road from MPE towards AMS North.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: No

Threats: Yes

What threats: RBM Mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 04/08/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

Site consists of an ephemeral scatter of adiagnostic pottery on the surface.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age:

Early Iron Age:

Late Iron Age: x

Historical Period: x



Recorder's Site No.: AMS16

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 33' 26.3" E: 32 20' 36.7" Alt: 67m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on the first dune cordon from the lake.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: No

Threats: Yes

What threats: RBM Mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 04/11/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of an ephemeral scatter of *P. perna* and *Patella spp.*

Pottery: Adiaagnostic

Shell: Brown mussel

Stone: Upper grinding stones

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age:

Historical Period: x

Recorder's Site No.: AMS17

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 33' 27.4" E: 32 20' 43.4" Alt: 49m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

The site is located on the dune east o AMS16.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: No

Threats: Yes

What threats: RBM mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 04/10/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of a scatter of adiagnostic pottery, WBS g/stone and *P. perna* (1xmidden)

ARCHAEOLOGICAL SITE RECORD FORM

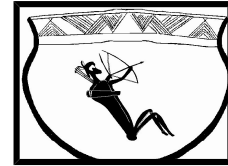
SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age?

Historical Period:?



Recorder's Site No.: AMS 18

Official Name: Bantu Reserve No.4 7638

Local Name:

Map Sheet: 2832CA KwaMbonambi

Map Reference: S28 37' 00.2", E 32 18' 17.3" 69m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is along first dune cordon from the side of the ocean.

SITE DESCRIPTION:

Type of Site: open

Merits conservation: No

Threats: yes

What threats: RBM

RECORDING:

Details of graphic record:

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 05/12/08

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

Site consists of a half human cranium (the upper half) that was found in one of the small sieves used by dry mining. No other limbs were found. The cranium appears to be new. No artefacts have been found on this dune, except for 1 fish otolith. I wonder if this is not an isolated remain of times that are more recent? This due to the exceeding fresh appearance

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age:

Early Iron Age:

Late Iron Age: x

Historical Period:



Recorder's Site No.: MPA39

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 38' 6.32" E: 32 17' 29.57" Alt: 73m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on the first dune from the ocean.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: Yes. Excavation of burial and monitoring.

Threats: Yes

What threats: RBM Mining

RECORDING:

Details of graphic record: Photographs

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 09/04/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of at least two shell middens, upper and lower grinding stones, bovid bone, pottery and a human burial. The site extends across the top of the dune.

Pottery: Diagnostic- Mzonjani and Ntshekane.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age

Historical Period:

Recorder's Site No.: MPD80

Official Name:

Local Name:

Map Sheet:

Map Reference: S28 34' 22.8 E32 20' 46.2"

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located in a valley in the central dune system

SITE DESCRIPTION:

Type of Site: open

Merits conservation: no

Threats: yes

What threats: RBM

RECORDING:

Details of graphic record:

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 12/02/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

Site consists of a scatter of adiagnostic pottery and *P. perna* over an area. It is very ephemeral and disturbed by bulldozer activity.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age

Historical Period: x

Recorder's Site No.: MPD 81

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 34 30.7 E: 32 20 40.9 Alt: 85m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

The site is located on the third dune from the ocean.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: No

Threats: Yes

What threats: RBM mining

RECORDING:

Details of graphic record: Photo's

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 18/03/08

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of a scatter of *P. perna* and some adiagnostic pottery.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age: x?

Historical Period: x?

Recorder's Site No.: MPD82

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 34' 23.5" E: 32 20' 57.1" Alt: 28m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on the third dune from the ocean.

SITE DESCRIPTION:

Type of Site: open

Merits conservation: No

Threats: yes

What threats: RBM Mining

RECORDING:

Details of graphic record: None

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 16/04/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of an ephemeral scatter of *P. perna* over a small area. Also a single upper grinding stone on white beach sandstone.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age:

Historical Period: x Modern

Recorder's Site No.: MPD 83

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 35' 51.5" E: 32 19' 41.5" Alt: 38m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

The site is located on the RHS of the road to Shark Tooth Midden (STM).

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: No

Threats: Yes

What threats: RBM mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 04/08/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of the abandoned charcoal burners and living areas of the associated people. The site is not archaeological, but rather Living Heritage.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age: LSA

Early Iron Age:

Late Iron Age

Historical Period:



Recorder's Site No.: MPD85

Official Name: Bantu Reserve No.4 7638

Local Name:

Map Sheet: 2832 CB Cape St Lucia?

Map Reference: S 28 34' 59.2", E 32 20' 38.9" (alt 45m)

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on tallest dune from the sea, but has all collapsed down due to mining

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: sampled

Threats: Yes

What threats: RBM

RECORDING:

Details of graphic record:

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 11/12/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

Site was a thick layer of large Perna perna and oyster (~15cm thick), that has now slumped down the dune and been excavated by mine. It appears to have been a thick midden and judging by the size of the P. perna, probably EIA. Only few pottery sherds remain and these are all very thick and appear to be the bases

ARCHAEOLOGICAL SITE RECORD FORM

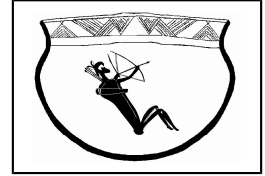
SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age ?

Historical Period:x



Recorder's Site No.: MPE71

Official Name:

Local Name:

Map Sheet:

Map Reference: S28 33' 13.7", E32 21' 3.9"

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on a small dune central to the dune system

SITE DESCRIPTION:

Type of Site: open

Merits conservation: No

Threats: yes

What threats: RBM

RECORDING:

Details of graphic record:

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 12/2/08

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

Site consists of a single shell midden, scattered over a 10m x 10m radius. Some adiaagnostic pottery occurs, as well as fish bone and White beach sandstone fragments (Lower grinding stones?). Midden consists mainly of P. perna, although there are some whelk and limpets.

ARCHAEOLOGICAL SITE RECORD FORM

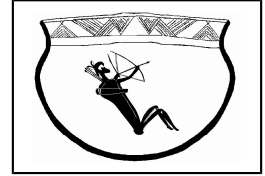
SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age

Historical Period:



Recorder's Site No.: MPE72

Official Name:

Local Name:

Map Sheet:

Map Reference: S28 33' 8.9", E32 21' 8.5" (88m)

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on a small dune central to the dune system

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: no

Threats: yes

What threats: RBM

RECORDING:

Details of graphic record:

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 12/8/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

Site consists of a single shell midden along the road cutting that may extend further into the vegetation. Shell consists of P. perna, limpet and whelk. Pottery is adiaagnostic.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age x

Historical Period:

Recorder's Site No.: MPE 73

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 33 30.4 E: 32 20 40.5 Alt: 63m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Follow the RBM Main road towards MPE. Take the back route to MPE, the site is located on the first dune from Lake Nhlabane.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: No

Threats: Yes

What threats: RBM Mining

RECORDING:

Details of graphic record: Photo's

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 18/03/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

Site consists of an ephemeral scatter of shell and some adiaagnostic pottery.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age: x

Historical Period: x

Recorder's Site No.: MPE 74

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 33 30.5 E: 32 20 40.5 Alt: 64m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Follow the RBM Main road towards MPE. Take the back route to MPE, the site is located on the first dune from Lake Nhlabane.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: No

Threats: Yes

What threats: RBM mining

RECORDING:

Details of graphic record: Photo's

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 18/03/08

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of at least 3x shell middens, faunal remains (bovid?), upper grinding stones and adiaagnostic pottery. The site may extend into the adjacent vegetation.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age: x
Historical Period:

Recorder's Site No.: MPE 75
Official Name:
Local Name:
Map Sheet:
Map Reference: S: 28 33 18.9 E: 32 20 53.1 Alt: 76m
GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Follow the RBM Main road towards MPE. Take the back route to MPE, the site is located on the second dune from Lake Nhlabane.

SITE DESCRIPTION:

Type of Site: Open
Merits conservation: Yes. Sampled
Threats: Yes
What threats: RBM mining

RECORDING:

Details of graphic record: Photo's
Recorder/Informant: Name: Umlando, Gavin and Louise Anderson
Address: PO Box 102532, Meerensee, 3901
Owner State
References:
Date: 18/03/08

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of a single shell midden, fragments of bone (bovid?), adiaagnostic pottery, a lower grinding stone and a *daga* fragment with reed mat impressions.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age:

Early Iron Age:

Late Iron Age: x

Historical Period:



Recorder's Site No.: MPE 76

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 33' 14.3" E: 32 20' 50.9" Alt: 81m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located further east from MPE 63, on an unused track to the right.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: Yes.

Threats: Yes

What threats: RBM Mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 06/05/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of at least three shell middens, WBS fragments and pottery.

Pottery: Adiaagnostic

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age:

Early Iron Age:

Late Iron Age: x

Historical Period: x



Recorder's Site No.: MPE 77

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 '33 04.9" E: 32 21' 17.8" Alt: 97m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on the back road to MPE and may possibly extend into the adjacent bush.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: Yes.

Threats: Yes

What threats: RBM Mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 09/06/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of at least three small shell patches and two large semi-intact shell middens. Pottery, stone and bone are scattered on the surface.

Pottery: LIA

Shell: Brown mussel

Stone: Upper grinding stones

Bone: Bovid

ARCHAEOLOGICAL SITE RECORD FORM

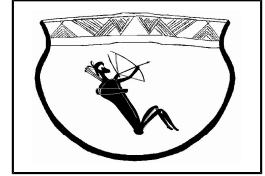
SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age: x

Historical Period: x



Recorder's Site No.: MPE78

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 33' 13.9" E: 32 21' 12.2" Alt: 109m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located further NW from MPE77 on a small dune ridge.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: Yes

Threats: Yes

What threats: RBM mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 09/06/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of a small scatter of adiagnostic pottery, some brown mussel, an upper grinding stone and iron ore.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age:

Early Iron Age:

Late Iron Age:

Historical Period: x



Recorder's Site No.: MPE 79

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 '33 24.6" E: 32 21' 15.96" Alt: 106m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located on the back road from MPE towards MPD, at the top of a high dune.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: Yes. Monitor for human remains.

Threats: Yes

What threats: RBM Mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 04/08/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of at least three shell middens. Adiaagnostic potter, coral and upper grinding stones are scattered on the surface.

Pottery: Adiaagnostic

Shell: Brown mussel

Stone: Upper grinding stones

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age:

Early Iron Age:

Late Iron Age:

Historical Period: x



Recorder's Site No.: MPE 80

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 '33 12.65" E: 32 20' 59.66" Alt: 107m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is located directly NW from MPE 71, approximately 90m away, on the top of the tallest dune on the first inland dune cordon.

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: No

Threats: Yes

What threats: RBM Mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 27/08/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of an ephemeral scatter of brown mussel and undecorated pottery.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age:

Historical Period: x

Recorder's Site No.: MPE 81

Official Name:

Local Name:

Map Sheet:

Map Reference: S: 28 33' 18.86" E: 32 21' 12.52" Alt: 126m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

The site is located directly SE from MPE 71, approximately 300m away, on top of a high dune

SITE DESCRIPTION:

Type of Site: Open

Merits conservation: Yes. Monitor for human remains.

Threats: Yes

What threats: RBM mining

RECORDING:

Details of graphic record: none

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 27/08/2008

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

The site consists of a scatter of undecorated pottery, brown mussel, white beach sandstone, lower grinding stones and upper grinding stones.

ARCHAEOLOGICAL SITE RECORD FORM

SITE CATEGORY: (X where applicable)

Stone Age

Early Iron Age:

Late Iron Age ?

Historical Period:?

Recorder's Site No.: MPE82

Official Name: Bantu Reserve No.4 7638

Local Name:

Map Sheet: 2832CA KwaMbonambi

Map Reference: S28 33' 04.1", E 32 21' 22.4" 95m

GPS reading? Yes

DIRECTIONS TO SITE: SKETCH OR DESCRIPTION.

Site is along first dune cordon from the side of Lake Nhlabane.

SITE DESCRIPTION:

Type of Site: open

Merits conservation: No

Threats: yes

What threats: RBM

RECORDING:

Details of graphic record:

Recorder/Informant: Name: Umlando, Gavin and Louise Anderson

Address: PO Box 102532, Meerensee, 3901

Owner State

References:

Date: 11/12/08

DESCRIPTION OF SITE AND ARTEFACTUAL CONTENT.

Site is a scatter of adiagnostic sherds and 1 x bog iron on the top of the hill. There are several small stones associated with a shell midden, and this midden is probably still under the bush.