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## PROPOSED BLAAUWBERG NATURE XOOLS TVDI甘OLSIH／TVDIDOTOTVHD甘V

 the effective protection and sustainable development of cultural resources in the )
 The proposed Blaauwberg Nature Reserve presents the city of Cape Town with a participation of the public.
protective measures into the planning and development policies, and the active minimise further destruction and damage to cultural resources, by the integration of

Land-use in the proposed nature reserve must therefore be controlled in order to sisodino suḷpen pue surg 'suapp!̣u already resulted in the loss of many archaeological and historical sites, including shell

 history of South Africa and Europe. And beneath the cold Atlantic ocean, in Table Bay, the remains of shipwrecks, some
dating to the mid 17th century, represent an important period of the early maritime
 The site of the Battle of Blouberg (1806) is located on the farm Bloubergsvlei, to the

The World War II buildings on top of Blouberg Hill are of historical significance lookout points for the Khoi, to alert them to ships coming into Table Bay Small caves located in the vegetated kloofs on Blouberg Hill served, apparently, as cultural material, as well as ancient animal lairs with preserved bone.


this landscape

Blouberg Hill, are testament to the indigenous Khoi communities who once peopled Shell middens and archaeological remains along the coastline, as well as to the east of

Located between Bloubergstrand and Melkbosstrand on the Cape west coast, the
proposed nature reserve represents a snapshot of South Africa's regional history.

The archaeological, historical and cultural heritage of the proposed Blaauwberg Nature
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and/or alteration to the buildings, or structures, is subject to approval by the
The buildings and structures should be retained. Any proposed restoration

With regard to the World War II buildings on top of the Blouberg Hill, the


- The establishment of an archaeological hiking trail between Bontkop and
Kreeftebaai.
- The establishment of an educational centre at Bontkop, focusing on the
cultural history of the region.


are made.


## With regard to the archaeological heritage, the following management proposal



- The establishment of a memorial to the casualties of war at Bloubergsvlei
battlefield site
- The implementation of an excavation programme at Bloubergsvlei, the
- The establishment of a museum or interpretative centre at Bloubergsvlei.
- The establishment of a battlefield tour/hiking trail
proposals are recommended.
With regard to the Battle of Blouberg, the following heritage management
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privately-owned land to the east of Blouberg Hill, incorporating portions of the farms
Blaauwberg, (Joyce's Diary), Bloubergsvlei, and Klein Melkboschplaąs.





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## historical sites that may exist.

 reserve; and
3. to identify any sites of archaeological and historical significance; significance on the site;
2. to determine whether there are likely to be any archaeological or historical sites of
> surrounding area;
> 1. to provide an overview of the archaeology and cultural history of the site and
The terms of reference for the archaeological and historical study were:
2. TERMS OF REFERENCE
the cultural heritage of the site into a development and management plan. and sensitivity of the proposed nature reserve, and to propose measures to integrate The aim of the study is to assess the archaeological, historical and cultural significance proposed Blaauwberg Nature Reserve.
Associates to undertake a preliminary archaeological and historical assessment of the The Agency for Cultural Resource Management has been requested by OVP
> 1.1 Background and brief

1. INTRODUCTION

## 4. APPROACH TO THE STUDY

A limited field study was undertaken. The field study focused on the coastal strip between Melkbosstrand and Bloubergstrand, Blouberg Hill, and the farms Blaauwberg and Bloubergsvlei. A desk-top study was also undertaken.

## 5. A REGIONAL ARCHAEOLOGICAL AND HISTORICAL OVERVIEW

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The archaeological significance of Bloubergstrand and Melkbosstrand has been well established, where more than 90 sites have been recorded and mapped (Kaplan 1993:25, 1997, 1998a).
Area of shanificarce $=$ runtal dure area
Rudner (1968) located numerous shell middens and deflated sites with shell and pottery in an almost continuous stretch among the frontal dunes, all the way from Paarden Eiland to Melkbosstrand. Many of these sites have since been lost as a result of land reclamation, and residential and recreational development.

A well preserved shell midden at the junction of Otto Du Plessis Drive and 11th Avenue in Melkbosstrand, was recently destroyed by the Investment Facility company Five Zero Two (Pty) Ltd, the developers of Milkwood Place, a residential housing development within the proposed new Melkbosstrand CBD. Bulldozer cuts into the dune had destroyed the topmost midden horizon, which formed the cap of the dune. All that remained exposed on the surface of the dune and in bulldozer tracks were scattered shell, fragments of bone and rare artefacts (Deacon and Goosen 1997). Ironically, the dune was situated on CMC property outside the area to be developed. A number of seriously damaged sites have recently been recorded in the same area (Kaplan 1998a).

A small portion of the Milkwood Place shell midden was excavated, but the valuable uppermost "contact period' (i.e. Dutch and indigenous Khoisan) deposits, had already been destroyed (Deacon and Goosen 1997).

The Milkwood Place midden was also used for educational purposes by the South African Museum, Human Sciences Department. It formed part of a practical archaeological excursion for scholars and adults that was aimed at building up a picture of coastal lives of past Khoisan people (Graham Avery, Department of Archaeology, South African Museum, pers. comm.).
Wenlood An equally large, well preserved shell midden at the end of Birkenhead Drive in DWC Melkbosstrand was also recently destroyed by the developers of a residential property development adjacent to 11 th Avenue in Melkbosstrand, who used the sand for fill purposes. This midden, containing grindstones, stone flakes, ostrich eggshell and pottery, was recorded during an archaeological study for the planned Johnnic Properties Atlantic Beach development (Kaplan 1997).

The Milkwood Place and Birkenhead Drive shell middens were two of the last remaining, well preserved shell middens in the shadow of Table Mountain, where large scale development has already destroyed about $90 \%$ of the archaeological sites in the
region. Their loss is a tragedy for archaeological research into the "contact' and precontact period of South African history.

The early Dutch settlers at the Cape would have encountered indigenous Khoisan communities on these shores and living among the dunes, and made contact with them. There are historical accounts of Bushmen and 'Strandlopers' utilising the coastal resources along the beaches at this time. Presumably, some of the remaining shell middens in the area would reflect this 'contact' period.

Excavations of a large, well preserved midden on the Johnnic site, containing pottery, shell pendants, stone tools, bone, ostrich eggshell beads, and rare ostrich eggshell water containers, and perlemoen bowls, and shell scoops, have recently been completed (Kaplan 1998c). A glass core from one of the sample excavations shows that part of the site dates from the 'contact' period. Preliminary analysis of the bone samples indicates that both sheep and cattle are present (Cedric Poggenpoel, Department of Archaeology, University of Cape Town, pers. comm.), suggesting that the site is dated within the last 2000 years BP.

If JOWWWU Recent excavations of another shell midden in the western portion of the Johnnic site, site pre 2000BP (Kaplan 1998b).
Whe fonteseyeral dozen archaeological sites are also known from Milnerton, Rietvlei, and Koeberg (Rudner 1968; Kaplan 1983, 1994, 1995a, 1995b), including the $>120000$ fecmimernationally significant Middle Pleistocene (older than 120000 years) site at Atewat wodunefontein, in the Koeberg Nature Reserve (Deacon 1976; Klein 1976). New squitican eecavations by local and international archaeologists have recently been completed at
the site.

### 5.1 Human burials

A relatively large number of Khoisan and non-indigenous burials have also been recovered between Milnerton and Melkbosstrand (Abrahams 1983; Graham Avery, South African Museum, pers comm.). According to Mr Jan Hannekom (pers. comm.) of the Melkbosstrand Paint and Pool Shop, two human burials were recovered when digging the foundations for the Palm Centre shopping complex. And a further four burials were uncovered when excavating foundations for a private house, and a service trench alongside Otto Du Plessis Drive.

A fragment of a fossil human femur bone was also found in Otto du Plessis Drive, just west of the Milkwood Place development. According to Deacon and Goosen (1997:6), the human bone probably originated from a disturbed burial in the Milkwood dune.

Two Bushman skeletons were also removed from a large sand dune on the farm Groot Oliphantskop (close to the old Mamre road) about 50 years ago by Mr D. Drury, a taxidermist at the South African Museum. The skeletons, along with a number of bored stones and ostrich eggshell beads, were later housed in a private collection at Mr Drury's home in Bloubergstrand (Kaplan 1996).
floor of the reservoir and the surface of the dune. today, but the foundations and remains relating to the fort, may be buried beneath the
 Caltex garage in Melkbosstrand, has been built on top of the foundations of a British Society, the old municipal reservoir on top of the large sand dune directly opposite the According to Mr Gary Thompson (pers. comm.) of the Melkbosstrand Conservation '8xəqnog Historical wells and freshwater springs were also dug at Rietvlei, Bloubergsvlei and a base for General Janssens during the Battle of Blouberg (1806).


 During the Dutch East India Company (VOC) period, a number of forts and trading

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 According to Major Tony Gordon (pers comm.), casualties of the war were buried in

 second British occupation of the Cape. The battle was fought mainly around the vei, Janssens were defeated by a British expeditionary force, heralding the start of the
 Blue Mountain, otherwise known as Blouberg Hill, is the most prominent landmark in
5.3 Battle of Blouberg
 three small caves/shelters are located in a vegetated kloof overlooking the West Coast According to Mr Rolf Krige (pers. comm.) of the Blaauw Mountain Nature Reserve,
5.2 Caves

### 5.6 Shipwrecks

According to Dr Bruno Werz (pers. comm.), maritime archaeologist at the Department of Archaeology, University of Cape Town, up to fifteen early shipwreck sites are located in Table Bay, and north of the mouth of the old Salt River. These include the wreck of the Nieuw Haerlem (1647) and the Oosterland (1697). Excavations of the Oosterland were undertaken in 1989. The aim of the excavation was to collect information focusing on the history of the VOC which was instrumental in the shaping of the settlement at the Cape of Good Hope in 1652 (Werz 1990, 1993). The wreck lies about 500 m south of the mouth of Milnerton Lagoon.

Described as 'frozen moments in time', shipwrecks have the potential to inform us about life at sea, vessel construction methods, the material culture of the period, and trade and trade networks, to a degree that written documents are unable to match (Gribble 1996:81). Wrecks constitute a valuable historical-archaeological resource that must be preserved and protected.

## 6. RESULTS OF THE PRELIMINARY ARCHAEOLOGICAL AND historical study - $8 T$ WD AREA

### 6.1 Shell middens

Two shell middens were located during the field study (Figure 1).


BR 1


- proposals
(radyure

BNR 1 was located on a large west-facing dune at Bontkop near the northern boundary of the proposed nature reserve (Figure 2). Located about 15 metres south of the beacon on a large partially vegetated dune, the midden has already been damaged by both human impact and natural processes. The relatively small midden comprises quantities of shellfish remains, ostrich eggshell and stone flakes. One piece of pottery was also found. Large quantities of fragmented shellfish remains, and stone flakes, including grindstone fragments, are widely scattered between the large dune and the coastal foredunes behind the exposed rocky coastline.

## BR 2

pernod >2000BP damaged.

BR 2 was located at Kreeftebaai. The midden has been severely damaged by a road/track which cuts through the sand dune (Figure 3). Midden material, including shellfish remains, stone flakes, pottery and ostrich eggshell were found on either side of the track on the low partially vegetated dune. Scattered shell fragments, stone and some pottery were also located on a flat, relatively undisturbed vegetated dune slack overlooking the carpark.

The coastal strip between Bontkop and Eerstesteen has been severely degraded by the use of 4 wheel drive and other vehicles. This has resulted in large scale damage to shell middens and other archaeological remains. Fragmented shellfish remains, pottery, ostrich eggshell, and stone flakes, were located along almost the entire coastal strip
the site to Mr Thompson (pers. comm.), pipe stems and musket balls have also been found on silcrete flake and adze, were located around the vlei during the field study. According

 The original farm house around the vlei has been demolished, but according to Mr
 the vlei, on the Bloubergsvlei farm. A portion of the battle site falls outside of the (Figure 6). According to Mr Gary Thompson (pers comm.), the battle centred around Bloubergsvlei, although some fighting also took on the eastern slopes of the Kleinberg The battlefield site of the Battle of Blouberg (1806) is located on the farm
6.4 Battle of Blouberg battlefield site
radar station was also constructed lower down the slopes of the Blouberg Hill (Figures
$4 \& 5$ ). dating to the 2nd World War have been constructed on top of the Blouberg Hill. A An artillery observation post, diesel station, and accommodation and mess buildings
6.3 World War II buildings
however, lies outside of the preliminary boundaries of the proposed nature reserve. majority of artefacts are in silcrete, with some in quartz also occurring. The site chunks, cores, scrapers, hammerstones, grindstones, ostrich eggshell and pottery. The comprises large numbers of stone tools, including, modified and unmodified flakes, vegetated land alongside a boundary fence, and adjacent to some wheat fields. The site strip about 500 metres south-east of the farm homestead, on the edge of some (Joyce's Diary). The site, comprising a wind-deflated blowout, occurs in a long wide One deflated Later Stone Age (LSA) ${ }^{1}$ site was located on the farm Blaauwberg
6.2 Deflated sites
vegetated, resulting in low archaeological visibility area also associated with extensive dune mole rat activity. This area is also heavily of the road, as well as in open spaces on the vegetated frontal dunes. Shell remains Archaeological residues were also located alongside Marine Drive, on the eastern side depths of up to 80 cm (Kaplan 1997). area. It has been noted that dune mole rats can bring up archaeological material from associated with extensive dune mole rat activity in the coastal portion of the study heavily vegetated, resulting in low archaeological visibility. Shellfish remains are Fragmented shellish remains were found south of Kreeftebaai, but the dunes here are
 between Bontkop and Kreeftebaai. Some of the material occurs in open spaces
between the relatively undisturbed low vegetated dunes south of the Cultural Centre at
(Kaplan 1996). Calcified (fossilised) dunes east of Blouberg Hill may, also contain very
old cultural material, as well as ancient animal lairs with preserved bone.
 boundaries of the proposed reserve, particularly where blow outs occur. Such sites sites are likely to be located'on the vegetated dunes east of Blouberg Hill within the




Buildings on top of the Grootberg date back to the 2nd World War (1945-49). The

The sense of 'place' of the Blouberg Hill should not be underestimated. The mountain the site of the Battle of Blouberg, as does the Clift (1997) report. Bloubergsvlei Sub-Regional Plan (1996) also highlights the historical significance of
 declared a portion of the site a Conservation Area in terms of the National Monuments Honert 1998), has already been recognised by the National Monuments Council, who Bloubergsvlei. The historical significance of the Blaauw Mountain Reserve (van den

 animal lairs with preserved bone (Clift 1997)




The dune area between the coast and Blouberg Hill is also regarded as sensitive. The south of Bontkop.
 Kreeftebaai are heavily vegetated, resulting in low archaeological visibility. Relatively Bontkop, as well as on either side of Marine Drive. The frontal dunes south of the archaeological sites were located along the entire coastal strip between Kreeftebaai and
 environment of the coastal strip. Shell middens in this area have been extensively Uncontrolled 4 wheel drive activity has already seriously degraded the cultural conservation value with the potential to preserve the cultural environment. already been recognised (Chittenden Nicks 1995:2). The area has been given a high The sensitivity of the coastal strip between Bloubergstrand and Melkbosstrand has sensitivity ratings. 'Red flag' areas denote medium-high sensitivity rating.
 The archaeological and historical sensitivity of the proposed Blaauwberg Nature

## THE PROPOSED BLAAUWBERG NATURE RESERVE

7. ARCHAEOLOGICAL, CULTURAL, AND HISTORICAL SENSITIVITY OF
Battlefield tours are a well established tourist resource in KwaZulu／Natal． positioning of the various battle garrisons（see Figure 6）．The trail thus becomes both
educational and recreational． Joyce＇s Diary（Jan Mostert＇s Farm），could be designed taking account of the behind Blouberg Hill could also be established．These trails，including a trail from Alternatively，or in conjunction with the above trail，smaller battlefield hiking trails
 northern portion of the Grootberg，and ending up at the proposed battlefield museum

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 proposed Blaauwberg Nature Reserve．Such a plan is integral to the development and the effective protection and sustainable development of cultural resources in the
 and management of the proposed reserve．
 The proposed Blaauwberg Nature Reserve presents the city of Cape Town with a the public． measures into the planning and development policies，and the active participation of further destruction and damage to cultural resources，by the integration of protective Land－use in the proposed nature reserve must be controlled in order to minimise



Uncontrolled 4 wheel drive and vehicle activity has seriously damaged middens and
stabilised, and with appropriate signage, incorporated into the proposed trail
8. The establishment of an archaeological hiking trail from the proposed education
centre at Bontkop, to Kreeftebaai. The shell midden at Kreeftebaai should be hiking trail would also start from this point.
opportunities for school groups, tourists, and local resident. The proposed battlefiel environmental education. The Bontkop site offers tremendous educational the archaeology and colonial history of Table Bay, but could also include
 place in the Melkbosstrand area, for example at the Atlantic Beach golf village. could also easily be augmented by material from other excavations which have taken proposed environmental/education centre at Bontkop. Archaeological display material midden should be excavated, and material used in an archaeological display at a Park' nature reserve is phased in, then it makes sense to start at the coast. The shel If, as was proposed at the CMC meeting on 9-10-1998, the proposed `laauwberg
sample of archaeological material for research, and possible display purposes. continue to deteriorate. The aim of the excavation would be generate a representative Kreeftebaai should be undertaken. This should take place soon, as the midden will
9. A rescue archaeological excavation of the already seriously damaged midden at

## are made. <br> With regard to the archaeological heritage, the following management proposals

 fighting took place. Recreation of the battle in the form of a relief model would situatethe viewing site in context. 4. The establishment of a battlefield viewing site on top of Kleinberg, where some interpretative centre at Bloubergsvlei.
3. The establishment of a memorial to the all the casualties of war to be located at the participation in the excavation programme is to be encouraged. contribute to the financial sustainability of the centre, and the nature reserve. Public practice in Israel, where volunteers pay to participate in digs. This would help groups and 'paying' volunteers. The system of paying volunteers is a well established proposed, involving ongoing, controlled, supervised excavations, involving school

In the longer-term, the establishment of a small research station at the vlei is also focusing on the battle, and also incorporating display material.
 parking, camping and braai facilities. The site could also be a point of departure for the be called the 'Garden Cities Gate'), from the proposed southern boundary road, with use of the existing buildings. Controlled access to the site would be through a gate (to farm Bloubergsvlei. The centre would be established around the vlei, perhaps making
2. The establishment of a Battle of Blouberg museum, or interpretative centre at the
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Chittenden Nicks Partnership. 1995. Draft local structure plan for the coastal strip Structure. (Ref: 93.219/REPORT) Metropolitan Sub-Structure and the Bloubergstrand Transitional Metropolitan SubSecond Draft. September 1996. Report prepared for the Cape Rural Transitional Bloubergsvlei Sub-Regional Plan: Frameworks \& Policies. CMC Engineering Services.
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Abrahams, G. 1983. The report on human skeletal remains and associated artefacts
from Milnerton Beach, Cape Province. South African Archaeological Bulletin 38:33-

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Council Plans Committee
The above recommendations are subject to the approval of the National Monuments however, be highlighted
The historical value of Blouberg Hill and its place in the history of the region should, existing structures, such as tea rooms, and restaurants are, therefore, acceptable WW II buildings do not retain architectural 'value' or integrity. Proposals for the Except for the obvious cultural and historical significance of Blouberg Hill itself, the over 50 years of age are protected by the National Monuments Act (Act No. 28 of
1969 as amended). buildings, is subject to approval by the National Monuments Council. 'Historical sites 1. The buildings should be retained. Any proposed restoration and/or alteration to the following recommendation is made. With regard to the World War II buildings on top of the Blouberg Hill, the

Rudner, J. 1968. Strandloper pottery from South and South West Africa. Annals of the
South African Museum 49:441-663. African Archaeological Bulletin 31:12-20 Duinefontein 2 (Melkbosstrand, South-Western Cape Province, South Africa). South Klein, R.G. 1976. A preliminary report on the 'Middle Stone Age' open-air site of West: Agency for Cultural Resource Management. Unpublished report prepared for Johnnic Property Developments (Pty) Ltd. Riebeek Kaplan, J. 1998c. Archaeological excavations at Atlantic Beach, Melkbosstrand. West: Agency for Cultural Resource Management Unpublished report prepared for Johnnic Property Developments (Pty) Ltd. Riebeek Kaplan, J. 1998b. Archaeological excavations at CA 1, Cape Atlantic, Melkbosstrand. for Cultural Resource Management. prepared for BCD Town and Regional Planners and Architects. Riebeek West: Agency Kaplan, J. 1998a. Archaeological study: proposed Melkbosstrand CBD. Report West: Agency for Cultural Resource Management. Unpublished report prepared for Johnnic Property Development (Pty) Ltd. Riebeek Kaplan, J. 1997. Archaeological study: proposed Melkbosstrand Golf Village. Agency for Cultural Resource Management Unpublished report prepared for Ninham Shand Consulting Engineers. Riebeek West Kaplan, J. 1996. Archaeological and cultural impact assessment: Omega substation pipeline. Report prepared for Eskom. Riebeek West: Agency for Cultural Resource
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## PROPOSED BLAAUWBERG NATURE RESERVE


B.1. CRITERIA FOR NATURE AND LEVEL OF SIGNIFICANCE
B. DETERMINING CULTURAL SIGNIFICANCE

- historical routes (colonial period)
historical farmstead (colonial period)
historical structures (WW II period)
geographical landmark (Blouberg Mountain)
potential historical middens
potential shipwreck sites
potential historical middens
identified and potential battle sites
potential graves (victims of conflict)
- potential pre-colonial burial sites
o potential cave sites
- identified and potential shell middens

Archaeological record (precolonial, contact and colonial period)
A. IDENTIFIED AND POTENTIAL HERITAGE RESOURCES

APPROACH TO DETERMINING THE CULTURAL SIGNIFICANCE OF
HERITAGE RESOURCES AND THEIR SENSITIVITY
BLOUBERG CONSERVATION AREA

Physical access to or location of a site

 or features, intrinsically interesting material, likely to appeal to public
imagination) Interpretative qualities or potential for public display (presence of visible artifacts
or features, intrinsically interesting material, likely to appeal to public Historical narrative qualities setting. It also encompasses the non-visual qualities of a place edges, materials, landscaping, texture, focal points, views, orientation) of a place and its or connectedness with the past. It encompasses the physical properties (scale, form, This includes the qualities, which give a place historical character, a sense of continuity
 - Intactness and evocative quality of a place relative to period of association Duration of association Significance of the person/s or event associated with the site
Intimacy of association

## known remaining physical evidence <br> 2) Associational links between a place and an event, person/s for which there is no

 Significance of the event or person/s associated with the physical fabric orevidence Representational value (outstanding, important or typical example) Presence of exceptional elements or features (some interest, considerable interest,
outstanding interest) Historical layering/archaeological sequence (complexity thereof) organic preservation) Intactness/integrity (original features, extent of damage, in situ deposits, degree of Scarcity value (how rare)
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Indigenous:

## Republic of South Africa Republic of South Africa <br> eouy ynos jo uoiun Suofoo पsıug

Transitional British/Dutch
British colony
Dutch East India Company
Herder period
Contact period
Middle Stone Age
Later Stone Age
Early Stone Age
Middle Stone Age
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- shipwrecks older than 70 years
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- declared conservation area



## B.5. STATUTORY PROTECTION <br> <br> Site context <br> <br> Site context <br> <br> Overall cultural landscape of the BCA <br> <br> Overall cultural landscape of the BCA 

} B.4. ASSESSMENT AT VARIOUS SCALES

- Outstanding
- Significant
- Some significance
- Contributing
- Potential value e.g. potential for future archaeological investigation/public display
B.4. ASSESSMENT AT VARIOUS SCALES
B.3. GRADING SIGNIFICANCE

Poor

- Good but incomplete documentary research oral history, analysis or interpretation of the significance of the
site. tested and/r mentioned in publication/researched and adequately reported). It is also
determined by assessing the method/approach used in the survey or excavation,
documentary research oral history, analysis or interpretation of the significance of the information available on the significance of a site, area or immediate vicinity (recorded,
tested and/r mentioned in publication/researched and adequately reported). It is also This is determined by assessing the type and degree of investigation carried out or

Information used to substantiate, understand and authenticate significance
B.2. STATE OF INFORMATION

CRITERIA FOR ASSESSING SENSIT VITY
(Draft outline)
4.2. Impacts on the experiential qualities

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\begin{aligned}
& \text { Locating new structures, routes, parking areas, signage or activity which would } \\
& \text { interfere with the spatial, visual or interpretative qualities of the site and its }
\end{aligned}
$$

Locating new structures, routes, parking areas, signage or activity which would
interfere with the spatial, visual or interpretative qualities of the site and its
relationship with its setting.
Lack of interpretation (on site/off site)
should be undertaken. Damage has been caused by $4 \times 4$ wheel drive and natural
Fencing of existing parking area
Recommendations of the J. Kapl
6.2. Specific sites: Kreeftebaai
8utrot!uou ioy suonepuәurшоәәу Recommendations for interpretation and public access to the site

Propose alternatives to mitigate any direct or indirect impact
Vulnerability of the site (past damage/disturbance)
Impact of intervention on significance
Significance (assessment criteria)
Establish the extent of the site should be-established
Objective/brief:

6. PROCEDURES


## 5. STATUTORY REQUIREMENTS <br> Lack of interpretation (on site/off site)



interpretation of the shell midden
If necessary, make recommendati
 If there are significant negative impacts, then make recommendations for the
mitigation any further or future negative impact and educational significance and the physical and experiential qualities of This assessment should take into account the known and potential scientific contributing to its further damage and whether the "formalization" of this area
as a parking facility will result in any further damage to this or other sites. Determine whether the existing parking area in proximity to the shell midden

Establish the location of any other sites in the area to be affected by the Below ground testing

Recific area affected by proposals
Review of baseline study information Specifi Phase $1 / 2$ survey

## Further archaeological investigations required:

incorporated into the proposed hiking trail. In situ archaeological remains should be stabilized and with appropriate signage and environmental center at Bontkop. Material from the Kreeftebaal site could be
augmented by material excavated from other sites in the area. An archaeological display area should be established at the proposed education


