# McGregor Museum Department of Archaeology 



Report on a Phase 1 Archaeological Assessment of proposed salt
mining areas on the Opstaan Pan, north of Upington, Northern Cape.

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 Methods and limitations jenoidde pue pueussesse mining, prospecting or development may take place without heritage

 relevant heritage resources authority. Section 36 protects human remains section 35 of the Act protects all archaeological and palaeontological sites (SAHRA)
 position, or collect, any archaeological material or object (defined in the Act) is affence to destroy, damage, excavate, alter, or remove from its origina


The National Heritage Resources Act (No 25 of 1999) (NHRA) provides นо!ฺе ןs! 6 бา
assessment; and mitigation measures and recommendations proceed. The report was to provide: site description; methodology; impact Terms of reference were to detail observations based on a field survey on the Terms of reference

This report also provides background information on the archaeology of the
wider region against which field survey observations may be assessed. mining areas on Opstaan Pan north of Upington, Northern Cape. The present report concerns archaeological observations on proposed salt
saved from destruction, or adequately mitigated and/or managed. to faci litate development while ensuring that what should be conserved is not all sites are equally significant. Heritage impact assessments are a means
 observed: "It is a great and spectacular history when compared to any other The a rchaeology of the Northern Cape is rich and varied, Covering long spans
of human history. Concerning Stone Age sites here, C.G. Sampson has

## miring areas on the Opstaan Pan north of Upington, Northern Cape

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A very sparse scatter of Stone Age artefacts, principally on quartzite, chert
Observations
Dune crests and slopes, where deflation exposes older surfaces, are known
frequently to bear traces of Later Stone Age sites, noted previously both to the
south (Norokei Pan, Groot Wit Pan) and to the north (adjacent to the Molopo
Lodge site, for example, at $27^{\circ} 10.986^{\prime} \mathrm{S} 20^{\circ} 24.392^{\prime}$ E).
 with Dwyka tillite, which provided ample raw material. A pan-side setting of HMOLY A1P Salls 110 y0010
exclusive pursuit into the early colonial era. In the absence of rock outcrops, drier western tracts it is probable that foraging persisted as an almos an older trajectory of stone tool making (Morris \& Beaumont 2004). In these foraging, and of ceramic and metallurgical (lron Age) technologies alongside era). The ast 2000 years was a period of increasing social complexity to the $270000-40000$ years ago), to the Later Stone Age (up to the protocolonial
era). The last 2000 years was a period of increasing social complexity to the half million to about 270000 years ago), through the Middle Stone Age (abou Broadly speaking, the archaeological record of this region reflects the long
span of human history from Earlier Stone Age times (more than one and a

## observations.

Background: archaeological resources in the region archaeologist consulted. of ostricheggshell flasks, then work should be halted and a professional event that any major feature is encountered, for example a burial or a cache features may occur at the margins of the pan where such dunes occur. In the of local ised deflation or erosion. Hence, subsurface archaeological traces and By contrast, the dunes represent processes of sedimentation and present in this environment, given the processes of deflation that create pans regarded as providing a fair estimate of the nature and range of materia When assessing archaeological resources, surface indications may be some serse of the archaeology of the surrounding dunes was de arse the aroheolable to associated infrastructure within the pan floor area, with the only impacts During the site investigation, areas of proposed mining were examined in
some clatil. Salt mining entails construction of evaporation dams and
Seacow Valley. Memoirs of the National Museum 20.
Sampson, C.G. 1985. Atlas of Stone Age settlement in the central and upper
Morris, D. \& Beaumont, P.B. 2004. Archaeology in the Northern Cape: Some
key sites. Kimberley: McGregor Museum. References
thank Ms Lindsay Weiss, Mr Ron Jennings and Mr Tsholofelo Chinkuli, who
accompanied me to the area.
Acknowledgements
accredited archaeologist for such work. are protected by legislation. The McGregor Museum would normally be in a
position to send an archaeologist at short notice, or to recommend an make recommendations for mitigation, if necessary. All archaeological traces archaeologist should be alerted immediately in order to assess the find and In the evencher are found during any part of construction or mining, an mining
Procedure in the event of sites being found during construction or
impact on the archaeological resources of the region
The proposed salt mining at this pan is not expected to have any negative
Recommendations
mitigation is regarded as being necessary
artefactsfound occurring only on the western-most fringe of the pan. No development and expansion of the salt works on the pan floor, with the only
There would be very little impact on archaeological resources during
decommissioning phases of mining.
Assessment of impacts during construction, operational and
Age siteswere found on those dunes further up the sides of the pan that were
No arte facts were found on other parts of the pan surface. No Later Stone
dune whin is eroding out at the sides of the pan
Later S tone Age occupation at a period coeval with the consolidated older one backed point, It seemed probable that the artefacts as a whole represent onto the pan floor. Artefact densities reached up to about $1 / \mathrm{m}^{2}$. They included consolidzed palaeodunes. The scatter extended not more than about 30 m clear th althese artefacts were eroding out of adjacent slightly calicified


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