

Our Ref:



an agency of the
Department of Arts and Culture

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South African Heritage Resources Agency | 111 Harrington Street | Cape Town
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CaseID: 12082

Date: Thursday January 18, 2018
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Interim Comment

In terms of Section 38(3), 38(8) of the National Heritage Resources Act (Act 25 of 1999)

Attention: Sivest - Gauteng

PO BOX 2921
Rivonia
2128

Proposed Construction of the Ithemba On-site Eskom Substation, Linking Substation and Associated 132kV Power Line near Loeriesfontein, Northern Cape Province

SiVEST Environmental has been appointed by SA Mainstream Renewable Power Developments (Pty) Ltd to conduct an Environmental Authorisation (EA) Application process for the proposed Ithemba On-site Eskom Substation, Linking Substation and associated 132kV Power Line, near Loeriesfontein, Northern Cape Province. A draft Basic Assessment Report (dBAR) has submitted in terms of the National Environmental Management Act, 1998 (NEMA), and the NEMA 2017 Environmental Impact Assessment (EIA) Regulations. The proposed development will include the construction of a 2 ha on-site substation (two locations are being considered), a 5 ha linking substation (two locations are being considered) and a 132kV powerline between 56 and 49.6 km in length (4 route options are being considered). The powerline will have a servitude of 31 m.

PGS Heritage (Pty) Ltd was appointed to conduct the heritage component of the BAR.

Fourie, W, Angel, J and Hutten, M. 2017. Ithemba Wind Energy Facility (WEF) – 132kV Grid connection and substation: Heritage Impact Assessment.

No heritage resources were identified within the development footprint.

Recommendations provided in the report include the following:

- A walk-down of the final layout to determine if any significant sites will be affected;
- Any heritage features of significance identified during this walk down will require formal mitigation or where possible a slight change in design could accommodate such resources;
- Monitor findspot areas if construction is going to take place through them;
- A management plan for the heritage resources needs to be implemented during construction and operations; and



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- Possible surface collections for sites with a medium to high significance as well as conducting a watching brief by heritage practitioner are to be undertaken during the construction phase.

Butler, E. 2016. Palaeontological Desktop Impact Assessment for the Proposed Development of four Leeuwberg Wind Farms and Basic Assessments for the Associated Grid Connection near Loeriesfontein, Northern Cape Province.

It was noted that no separate assessment has been done for this application; it is rather part of a larger development encompassing four farms in total. Different sensitivities and thus different outcomes may apply for each of these farms.

The farm is underlain by unfossiliferous Karoo dolerite as well as sediments of the Prince Albert Formation (Ecca Group). The excavations and site clearance will involve substantial excavations into the superficial sediment cover as well as locally into the underlying bedrock. These excavations will modify the existing topography and may disturb damage, destroy or permanently seal-in fossils at or below the ground surface that are then no longer available for scientific research. According to the geology of the development site there is a possibility of finding fossils in the Ecca Group but the palaeontological sensitivity is low.

Recommendations provided in the report include the following:

- Recommended mitigation of the inevitable damage and destruction of fossil within the proposed development area would involve the surveying, recording, description and collecting of fossils within the development footprint by a professional palaeontologist. This work should take place after initial vegetation clearance has taken place, but before the ground is leveled for construction;
- Impacts on fossil heritage are generally irreversible. Well-documented records and further palaeontological studies of any fossils exposed during construction would represent a positive impact from a scientific perspective. The possibility of a negative impact on the palaeontological heritage of the area can be reduced by the implementation of adequate damage mitigation procedures. If damage mitigation is properly undertaken the benefit scale for the project will lie within the beneficial category;
- Should fossil remains be discovered during any phase of construction, either on the surface or exposed by fresh excavations, the ECO responsible for these developments should be alerted immediately. Such discoveries ought to be protected (preferably in situ) and the ECO should alert SAHRA so that appropriate mitigation (e.g. recording, sampling or collection) can be taken by a professional paleontologist. The specialist involved would require a collection permit from SAHRA. Fossil material must be curated in an approved collection (e.g. museum or university collection) and all fieldwork and reports should meet the minimum standards for palaeontological impact studies

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developed by SAHRA.

The submitted Environmental Management Programme (EMPr) notes the following additional mitigation measures with regards to heritage resources:

- Any finds must be reported to the nearest National Monuments office to comply with the National Heritage Resources Act (Act No 25 of 1999) and to DEA;
- Any finds must be reported to the nearest National Monuments office to comply with the National Heritage Resources Act (Act No 25 of 1999) and to DEA. Local museums as well as the South African Heritage Resource Agency (SAHRA) should be informed if any artefacts are uncovered in the affected area;
- The contractor must ensure that his workforce is aware of the necessity of reporting any possible historical or archaeological finds to the ECO so that appropriate action can be taken;
- Any discovered artefacts shall not be removed under any circumstances. Any destruction of a site can only be allowed once a permit is obtained and the site has been mapped and noted. Permits shall be obtained from the South African Heritage Resources Association (SAHRA) should the proposed site affect any world heritage sites or if any heritage sites are to be destroyed or altered;
- Should any archaeological sites / graves be uncovered during construction, their existence shall be reported to the Project Company and MC immediately.

Interim Comment

The SAHRA Archaeology, Palaeontology and Meteorites (APM) Unit disagrees with the low sensitivity given to the Prince Albert Formation as it is deemed to be of high palaeontological sensitivity according to the SAHRIS Fossil Heritage Layer Browser (<http://www.sahra.org.za/sahris/fossil-layers/prince-albert-formation>). Therefore, and in line with recommendations that include that surveying be done by a professional palaeontologist (p.31, Table 1 of the report), the APM Unit endorses such recommendation and requires a professional palaeontologist to survey the proposed development footprint. The surveying report must be submitted to SAHRA before the commencement of any development-related activities. It must be noted that the palaeontological description of the Prince Albert Formation was rather sparse and does not include references.

Further comments will be issued upon receipt of the above.

Should you have any further queries, please contact the designated official using the case number quoted above in the case header.

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Yours faithfully

Natasha Higgitt
Heritage Officer
South African Heritage Resources Agency

Phillip Hine
Acting Manager: Archaeology, Palaeontology and Meteorites Unit
South African Heritage Resources Agency

ADMIN:

Direct URL to case: <http://www.sahra.org.za/node/487631>
(DEA, Ref:)

Terms & Conditions:

1. This approval does not exonerate the applicant from obtaining local authority approval or any other necessary approval for proposed work.
2. If any heritage resources, including graves or human remains, are encountered they must be reported to SAHRA immediately.
3. SAHRA reserves the right to request additional information as required.