



K2 SAHRA Submission and Response



an agency of the
Department of Arts and Culture

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Case ID: 22458

Date: Thursday, 1 August, 2024

Final Decision

In terms of Section 38(2) of the National Heritage Resources Act (Act 25 of 1999)

Justine Wyngaardt
JUWI Renewable Energies (Pty) Ltd
20th floor, The Halyard, 4 Christiaan Barnard Street
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The Applicant, JUWI Renewable Energies (Pty) Ltd., intends to develop the approximately 290 ha Carpe Diem North property as an independent SPP with an electricity generation capacity of up to 150 MW developed in two 75 MW sections, which share all associated bulk infrastructure, as well as the on-site SPP substation. The on-site SPP substation and part of the grid connection/overhead power line (OPL) corridor footprints form part of the Carpe Diem North SPP footprint. The proposed development is located on portion 5 of the Farm Varkenslaagte No. 119, Merafong City Local Municipality, West Rand District Municipality, Gauteng Province.

A Background Information Document (BID) and a Site Sensitivity Verification Report (SSVR) has been submitted to SAHRA for commenting in terms of Section 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA). The actual solar PV array area, inverter-stations, transformers and an internal electrical reticulation (with underground/ trenched cabling), operation and maintenance (O&M) buildings, above ground potable water storage, on-site PV BESS, temporary and permanent laydown areas, an on-site SPP substation (which comprises and collector station and switching station), fencing, internal roads, a main access road, and a main entrance guard/ security office, a possible telecommunications mast, stormwater management ditches/ swales, potential visual screening berms and access control gates. The preferred OPL development footprint (Alternative 1) which proposes a Li,Lo grid connection tie-in via an existing 132 kV OPL which runs immediately to the east of the on-site SPP substation.

On 06/05/2024, SAHRA issued an interim comment requesting for a field-based Phase 1 palaeontological assessment to be undertaken. The PIA report was submitted to the case. On 23/07/2024 a report requesting for registration for exclusion from the requirements of obtaining an EA was submitted to SAHRA.

PGS Heritage has been appointed to provide heritage specialist input as part of the EA process in terms of section 24(4)b(iii) of NEMA and section 38(8) of the National Heritage Resources Act, Act 25 of 1999 (NHRA).



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Sachse, M. 2024. Proposed Carletonville Solar Photovoltaic Plant and Associated Grid Connection Infrastructure on the Farms Tywfelvlakte 105 IQ, Welverdiend 97 IQ, Doornfontein 118 IQ and Varkenslaagte 119 IQ, near Carletonville, Gauteng Province.

The fieldwork identified no archaeological sites or burial grounds and graves. However, it was recommended that the following measures applies:

- Implement a chance to find procedures in case where possible heritage finds are uncovered.
- A detailed “walk down” of the final approved footprints will be required before construction commences.
- Any significant features of significance identified during this walkdown will require formal mitigation (i.e., permitting where required) or where possible a slight change in design could accommodate such resources.
- A Heritage Management plan (HMP) for heritage resources needs to be compiled and approved for implementation during construction and operations where heritage features of significance are identified.

Butler, E. 2024. PALAEONTOLOGICAL IMPACT ASSESSMENT PROPOSED CARPE DIEM SOLAR PHOTOVOLTAIC PLANT AND ASSOCIATED INFRASTRUCTURE ON THE FARMS VARKENSLAAGTE 119 IQ AND DOORNFONTEIN 118 IQ, NEAR CARLETONVILLE, GAUTENG PROVINCE.

The Proposed Carpe Diem Solar Photovoltaic Plant (SPP) and associated infrastructure is largely underlain by the Vaalian aged Malmani Subgroup (Chuniespoort Group, Transvaal Supergroup) with a small portion in the south underlain by the Timeball Hill Formation and Rooihoogte Formations of the Pretoria Group (Transvaal Supergroup). A very small portion in the south is underlain by unfossiliferous diabase). The Malmani Subgroup is undifferentiated in this area. Updated geology (Council for Geosciences, Pretoria) indicates that the study area is underlain by the Malmani Subgroup (anml) as well as the Timeball Hill and Rooihoogte Formations of the Pretoria Group. No fossiliferous outcrop was detected in the proposed development. Based on the site investigation as well as desktop research it is concluded that fossil heritage of scientific and conservational interest in the development footprint is rare.

It is consequently recommended that no further palaeontological heritage studies, ground truthing and/or specialist mitigation are required pending the discovery of newly discovered fossils. If fossil remains are discovered during any phase of construction, either on the surface or exposed by excavations the Chance



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Find Protocol must be implemented by the ECO/site manager in charge of these developments. These discoveries ought to be protected (if possible, in situ) and the ECO/site manager must report to SAHRA so that mitigation (recording and collection) can be carry out by a paleontologist. Preceding any collection of fossil material, the specialist would need to apply for a collection permit from SAHRA. Fossil material must be curated in an accredited collection (museum or university collection), while all fieldwork and reports should meet the minimum standards for palaeontological impact studies suggested by SAHRA.

Final Decision

The following comments are made as a requirement in terms of section 38(4) of the NHRA:

- 38(4)a – The SAHRA Development Application Unit (DAU) has no objections to the proposed development;
- 38(4)b – The recommendations provided by the heritage specialists are supported and must be adhered to.
- 38(4)c(i) – If any evidence of archaeological sites or remains (e.g. remnants of stone-made structures, indigenous ceramics, bones, stone artefacts, ostrich eggshell fragments, charcoal and ash concentrations), fossils or other categories of heritage resources are found during the proposed development, SAHRA DAU (Nokusho Ngobeni/Natasha Higgitt 021 202 8660) must be alerted as per section 35(3) of the NHRA. Non-compliance with this section of the NHRA is an offence in terms of section 51(1)e of the NHRA and item 5 of the Schedule;
- 38(4)c(ii) – If unmarked human burials are uncovered, the SAHRA DAU (Nokusho Ngobeni/Natasha Higgitt 021 202 8660), must be alerted immediately as per section 36(6) of the NHRA. Non-compliance with this section of the NHRA is an offence in terms of section 51(1)e of the NHRA and item 5 of the Schedule;
- 38(4)d – See section 51(1) of the NHRA;
- 38(4)e – The following conditions apply with regards to the appointment of specialists:
 - i) If heritage resources are uncovered during the course of the development, a professional archaeologist or palaeontologist, depending on the nature of the finds, must be contracted as soon as possible to inspect the heritage resource. If the newly discovered heritage resources prove to be of archaeological or palaeontological significance, a Phase 2 rescue operation may be required subject to permits issued by SAHRA.

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

Carpe Diem North Solar Photovoltaic Plant and Associated Grid Connection Infrastructure Project



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above in the case header.

Yours faithfully

Nokusho Ngobeni

South African Heritage Resources Agency

Natasha Higgitt
Manager: Development Applications Unit
South African Heritage Resources Agency

ADMIN:

Direct URL to case: <https://sahris.org.za/node/349296>

Carpe Diem North Solar Photovoltaic Plant and Associated ...

CaseDetails

Official Use

Summary

Case ID: 22458
Case Status: Closed (Approved).
Heritage Authority(s): SAHRA
PHRA-G

Proposal Description

The Applicant, JUWI Renewable Energies (Pty) Ltd., intends to develop the approximately 290 ha Carpe Diem North property as an independent SPP with an electricity generation capacity of up to 150 MW developed in two 75 MW sections, which share all associated bulk infrastructure, as well as the on-site SPP substation. The on-site SPP substation and part of the grid connection/overhead power line (OPL) corridor footprints form part of the Carpe Diem North SPP footprint. The proposed Carpe Diem North SPP development entails permanent and temporary/construction infrastructure:

Province(s): Gauteng
Author: pgs.heritage
Post date: 19/04/2024 - 13:21
Last modified: 11/11/2024 - 13:23

Reports

Heritage Reports linked to this Case

Heritage Impact Assessment Specialist Reports	04/26/2022	HIA for the Proposed Carpe Diem Solar Photovoltaic Plant and Associated Infrastructure On the Farms Varkenslaagte 119 IQ and Doornfontein 118 IQ, near Carletonville, Gauteng Province.	Michelle Sachse, Wouter Fourie, Nikki Mann	download
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Palaeontological Specialist Reports	05/22/2024	PIA: PROPOSED CARPE DIEM SOLAR PHOTOVOLTAIC PLANT AND ASSOCIATED INFRASTRUCTURE	Elize Butler	download
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Location

RoDs/Permits

Location



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