

COMMENTS INSERTED AS CAPTURED IN THE COMMENTS  
AND RESPONSES REPORT

South African Heritage Resources Agency

Our Ref:



an agency of the  
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4509 | E: info@sahra.org.za  
South African Heritage Resources Agency | 111 Harrington Street | Cape Town  
P.O. Box 4637 | Cape Town | 8001  
www.sahra.org.za

Enquiries: Natasha Higgitt  
Tel: 021 462 4502  
Email: nhiggitt@sahra.org.za  
CaseID: 9373

Date: Friday May 31, 2019  
Page No: 1

## Final Comment

**In terms of Section 38(4), 38(8) of the National Heritage Resources Act (Act 25 of 1999)**

Attention: Great Karoo Wind Farm (Pty) Ltd

**Great Karoo Wind Farm (Pty) Ltd received an Environmental Authorisation (EA) for the construction of the Great Karoo Wind Energy Facility near Sutherland in the Northern Cape (DEA ref: 12/12/20/2370/3) on 12 August 2014.**

Savannah Environmental (Pty) Ltd has been appointed by Great Karoo Wind Farm (Pty) Ltd to conduct an Amendment Process for the authorised Great Karoo Wind Energy Facility, near Sutherland, Northern Cape Province (DEA Ref No: 12/12/20/2370/3/AM2).

An Amendment Motivation report has been submitted as per the National Environmental Management Act, Act 107 of 1998 (NEMA) and the NEMA Environmental Impact Assessment (EIA) Regulations (As amended).

Amendments to the authorised facility include the following:

- A reduction in the number of wind turbines from the authorised 52, to up to 42;
- An increase to the rotor diameter for each wind turbine from the authorised diameter of up to 140m, to up to 180m;
- An increase in hub height from up to 120m, to a range of up to 150m;
- Turbine capacity from 3,6 MW, to up to 6,5 MW per turbine;
- Update the layout as required based on the revised turbine numbers and turbine specifications;
- Extend the validity period by an additional 5 years.

The Motivation report finds that the proposed amendments will not increase the significance of impacts original identified in the EIA report or lead to any additional impacts.

It is noted that the turbine layout has altered slightly compared to the authorised layout.

### Final Comment

This must be read in conjunction with Interim Comment dated 21 October 2016 for SAHRIS Case ID 218.

Our Ref:



an agency of the  
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4509 | E: [info@sahra.org.za](mailto:info@sahra.org.za)  
South African Heritage Resources Agency | 111 Harrington Street | Cape Town  
P.O. Box 4637 | Cape Town | 8001  
[www.sahra.org.za](http://www.sahra.org.za)

Enquiries: Natasha Higgitt  
Tel: 021 462 4502  
Email: [nhiggitt@sahra.org.za](mailto:nhiggitt@sahra.org.za)  
CaseID: 9373

Date: Friday May 31, 2019  
Page No: 2

The SAHRA Archaeology, Palaeontology and Meteorites (AMP) Unit has no objections to the proposed amendments, given that the following conditions are to be adhered to:

- As per previous comments issued for this application, the outstanding archaeological walk-down for the Great Karoo Wind Energy Facility (WEF) must be conducted prior to construction;
- A map of the identified palaeontological resources relative to the layout of the proposed development must be emailed to the case officer and the ECO must monitor all excavations in the Great Karoo WEF;
- The Final Amendment Motivation Report and EMPr must be uploaded to the SAHRIS application for record purposes;
- 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 APM Unit (Natasha Higgitt/Phillip Hine 021 462 5402) must be alerted as per section 35(3) of the NHRA. If unmarked human burials are uncovered, the SAHRA Burial Grounds and Graves (BGG) Unit (Thingahangwi Tshivhase/Mimi Seetelo 012 320 8490), must be alerted immediately as per section 36(6) of the NHRA. A professional archaeologist or palaeontologist, depending on the nature of the finds, must be contracted as soon as possible to inspect the findings. 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;
- The decision regarding the Amended EA Application must be communicated to SAHRA and uploaded to the SAHRIS Case application.

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

Yours faithfully

---

Natasha Higgitt  
Heritage Officer

Our Ref:



an agency of the  
Department of Arts and Culture

T: +27 21 462 4502 | F: +27 21 462 4509 | E: [info@sahra.org.za](mailto:info@sahra.org.za)  
South African Heritage Resources Agency | 111 Harrington Street | Cape Town  
P.O. Box 4637 | Cape Town | 8001  
[www.sahra.org.za](http://www.sahra.org.za)

Enquiries: Natasha Higgitt  
Tel: 021 462 4502  
Email: [nhiggitt@sahra.org.za](mailto:nhiggitt@sahra.org.za)  
CaseID: 9373

Date: Friday May 31, 2019  
Page No: 3

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/361270>  
(DEA, Ref: 12/12/20/2370/3)

**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.

Department of Agriculture Forestry and Fisheries



# agriculture, forestry & fisheries

Department:  
Agriculture, Forestry and Fisheries  
REPUBLIC OF SOUTH AFRICA

Directorate: Forestry Management (Other Regions)  
P.O. Box 2782, Uptington, 8800, Tel 054 338 5909, Fax 054 334 0030

Enquiries: J Mans  
E-mail: [JacolineMa@daff.gov.za](mailto:JacolineMa@daff.gov.za)  
Date: 26 April 2019  
Ref: 40.8.14.2/NC/157

Savannah Environmental (Pty) Ltd  
P.O. Box 148  
Sunninghill  
2157

Attention: Nicolene Venter ([nicolene@Savannah.com](mailto:nicolene@Savannah.com); [mabel@savannah.com](mailto:mabel@savannah.com))

## COMMENTS ON MOTIVATION FOR AMENDMENT OF ENVIRONMENTAL AUTHORISATION GREAT KAROO WIND ENERGY FACILITY (DEA REF: 12/12/20/2370/3)

### 1. DEPARTMENTAL MANDATE

The Directorate: Forestry Management (Other Regions) in the Department of Agriculture, Forestry and Fisheries (DAFF) is responsible for administration of the **National Forests Act, Act 84 of 1998 (NFA)** and **the National Veld and Forest Fires Act, Act 101 of 1998** as amended. The developer must take note of the following sections of the NFA:

#### 1.1 Section 12(1): "The Minister may declare-

- (a) a particular tree,
- (b) a particular group of trees,
- (c) a particular woodland; or
- (d) trees belonging to a particular species, to be a protected tree, group of trees, woodland or species.

#### 1.2 Section 15(1): "No person may-

- (a) Cut, disturb, damage or destroy any protected tree; or
- (b) Possess, collect, remove, transport, export, purchase, sell, donate or in any other manner acquire or dispose of any protected tree, or any forest product derived from a protected tree, except-
  - (i) under a license granted by the Minister; or
  - (ii) in terms of an exemption from the provision of this subsection published by the Minister in the Gazette on the advice of the Council."

#### 1.3 "Any person who contravenes the prohibition on-

- (i) The cutting, disturbance, damage or destruction of temporarily protected trees or groups of trees referred to in section 14(2) or protected trees referred to in section 15(1)(a); or

- (ii) The possession, collection, removal, transport, export, purchase or sale of temporarily protected trees or groups of trees referred to in section 14(2) or protected trees referred to in section 15(1)(b), or any forest product derived from a temporarily protected tree, group of trees or protected tree, is guilty of a first category offence.

1.4 Section 58 (1): "Any person who is guilty of a first category offence referred to in sections 62 and 63 may be sentenced to a fine or imprisonment for a period of up to three years, or to both a fine and such imprisonment."

1.5 The list of protected tree species under section 12(1) (d) of the National Forests Act, 1998 (Act No. 84 of 1998) is published annually; the most recent publication was in GN536 of 7 September 2018.

## 2. COMMENTS ON APPLICATION FOR AMENDMENT TO ENVIRONMENTAL AUTHORISATION

2.1 In the unlikely event that protected trees such as Yellowwoods are encountered on site, the developer must apply for a Forest Act License prior to disturbance of protected trees. Getting a Forest Act License can take up to 30 days. License application forms are available on the Departmental website or at any Forestry Office. The Department may ask supporting documentation when assessing a license application. For construction activities of this nature, the following supporting documents are normally requested:

- Completed License Application Form
- Accurate estimation of the number of trees to be felled per species
- Copy of the I.D. of the applicant (developer's representative)
- Copy of the Environmental Authorisation
- Flora Permit Reference Number
- Copy of Fauna Permit (if applicable)

2.2 Trees with bird nests may not be disturbed without a valid Fauna Permit from Nature Conservation, under the Northern Cape Nature Conservation Act, Act 9 of 2009 (NC NCA), if affected.

2.3 The amended turbine layout shows that some of the wind turbines are located in a Critical Biodiversity Area (CBA). Impacts on CBA's must be avoided as far as possible and unavoidable impacts can trigger a biodiversity offset. If the provincial Department of Environment and Nature Conservation (DENC) has no objection against the proposed amendments, then the DAFF has no further comments to make.


Thank you for notifying the Department of the proposed amendments.

Kind Regards,



Jacoline Mans (Chief Forester: NFA Regulation)

DATE: 25/04/2019

DEPT. VAN LANDBOU, BOSBOU & VISSERY	
	NORTHERN CAPE REGION
2019 -04- 26	
PO BOX 2782, UPINGTON 8800 TEL: 054 338 5908/09/10 FAX: 054 334 0030	
DEPT. OF AGRICULTURE, FORESTRY & FISHERIES	

Department of Environment Affairs





## **environmental affairs**

Department:  
Environmental Affairs  
**REPUBLIC OF SOUTH AFRICA**

Private Bag X 447 · PRETORIA · 0001 · Environment House · 473 Steve Biko Road · PRETORIA  
Tel (+ 27 12) 399 9372

**DEA Reference:** 12/12/20/2370/3/AM3

**Enquiries:** Ms Zesipho Makhosayafana

**Telephone:** (012) 399 8741 **E-mail:** [zmakhosayafana@environment.gov.za](mailto:zmakhosayafana@environment.gov.za)

Mr Gideon Raath  
Savannah Environmental (Pty) Ltd  
PO Box 148  
**SUNNINGHILL**  
2157

Tel: (011) 656 3237

E-mail: [gideon@savannahsa.com](mailto:gideon@savannahsa.com)

### **PER E-MAIL / MAIL**

Dear Mr Raath

### **COMMENTS ON THE DRAFT ENVIRONMENTAL AUTHORISATION AMENDMENT REPORT FOR THE 140 MEGAWATTS GREAT KAROO WIND FARM (PHASE 3) AND ITS ASSOCIATED INFRASTRUCTURE ON THE FARM KENTUCKY 206 AND PORTION 1 (WELGEMOED) OF THE FARM WOLVENKOP 207 WITHIN THE KAROO HOOGLAND LOCAL MUNICIPALITY IN THE NORTHERN CAPE PROVINCE**

The draft Environmental Authorisation (EA) Amendment Report dated April 2019 and received by this Department on 25 April 2019, refers.

This Department has the following comments on the abovementioned application:

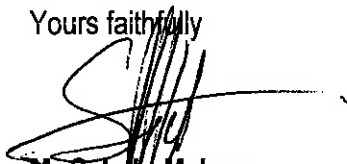
- (i) The Department requests that you submit the details as well as declarations of the Specialists that prepared the specialist reports and/ or comment letters as per appendix 6, regulation 1 (1) (a) and (b) of the EIA Regulations, 2014, as amended.
- (ii) Please ensure that all issues raised and comments received during the circulation of the draft amendment report from registered I&APs and organs of state which have jurisdiction in respect of the proposed activity are adequately addressed in the Final amendment report.
- (iii) Should you be unable to obtain comments, proof should be submitted to the Department of the attempts that were made to obtain comments.
- (iv) The Public Participation Process must be conducted in terms of Regulation 39, 40, 41, 42, 43 and 44 of the EIA Regulations 2014.
- (v) Updated site layout map must be incorporated with the final Amendment Report for approval. All available biodiversity information must be used in the updated site layout map.
- (vi) The EMPr must be amended to include additional information resulting from the amendment and measures as dictated by the final site lay-out map and micro-siting, and the provisions of the environmental authorisation.
- (vii) The EMPr must reflect the changes or improvements the proposed amendment application will have on the EA and the previous EMPr.
- (viii) The updated EMPr must include all the management plans and mitigation measures were requested to be included in the amended EMPr.

You are requested to submit one hard copy of the final Amendment Report to the Department and at least one unprotected electronic copy (USB/CD/DVD) of the complete final report with the hard copy documents.

Further note that in terms of Regulation 45 of the EIA Regulations 2014, this application will lapse if the applicant fails to meet any of the timeframes prescribed in terms of these Regulations, unless an extension has been granted in terms of Regulation 3(7).

You are hereby reminded of Section 24F of the National Environmental Management Act, Act No 107 of 1998, as amended, that no activity may commence prior to an environmental authorisation being granted by the Department.

Yours faithfully



**Mr Sabelo Malaza**

**Chief Director: Integrated Environmental Authorisations**

**Department of Environmental Affairs**

**Signed by: Ms Sindiswa Dlomo**

**Designation: Deputy Director: National Infrastructure Projects**

**Date: 13/05/2019**

cc:	Mr Richard Gordon	Great Karoo Wind Farm (Pty) Ltd	Email: <a href="mailto:Richard.gordon@aimafrica.com">Richard.gordon@aimafrica.com</a>
-----	-------------------	---------------------------------	---

Department of Water and Sanitation



## water & sanitation

Department:  
Water and Sanitation  
REPUBLIC OF SOUTH AFRICA

Northern Cape Provincial Operations, Private Bag X 6101, Kimberley, 8301, 28 Central Road Beaconsfield  
Kimberley, Tel: 053 836 7600, Fax: 053 842 3258

	053 830 8825		Vhonani Ramugondo
	<a href="mailto:ramugondov@dws.gov.za">ramugondov@dws.gov.za</a>		053 836 7648

### Great Karoo Wind Farm (Pty) Ltd

P.O. Box 148  
Sunninghill  
2157

Email: [publicprocess@savannahsa.com](mailto:publicprocess@savannahsa.com)

### By Email/Registered Mail

Attention: Ms Nicolene Venter

### RE: MOTIVATION FOR AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION: GREAT KAROO WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE, NOTHERN CAPE PROVINCE.

Reference is hereby made to the amendment of the environmental authorisation: Great Karoo Wind Energy Facility and associated infrastructure in the Northern Cape Province drafted by Savannah Environmental (Pty) Ltd on behalf of Great Karoo Wind Farm (Pty) Ltd as submitted to the Department of Water and Sanitation on 25 April 2019.

## 1. RECOMMENDATIONS AND DECISION

As mentioned in the report, the Department takes note that the proposed activity at the above mentioned location will include reduction in the number of wind turbines, amendment of the layout of the turbines, changes on the buffer for the watercourses. The Department has evaluated the said motivation and has no objection to the approval of the Motivation Report. However, the following should be addressed and presented to Department by the applicant before approval of the Motivation Report:

- a) Please note that the Department rates all perennial and non-perennial rivers together with all dry river beds and natural drainage and associated riparian areas extremely sensitive to development.



**RE: APPLICATION FOR AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION: GREAT KAROO WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE, NOTHERN CAPE PROVINCE.**

- b) No development or construction should be done or may occur within 100 metres; 1:100 year flood line of a river/drainage lines (whichever is furthest) and 500 m of a pan/wetland without authorisation from this Department. The water courses should be delineated in order to provide an appropriate buffer to maintain such water courses;
- c) Vehicles and other machinery must be serviced well above the 1:100 year flood line or within a horizontal distance of 100 meters from any watercourse or 500 m of a wetland/pan. Oils and other potential pollutants must be disposed at an appropriate licensed site, with the necessary agreement from the owner of such a site;
- d) Storm water must be diverted from the construction works and roads must be managed in such a manner as to disperse runoff and to prevent the concentration of storm water. Storm water control works must be constructed, operated and maintained in a sustainable manner throughout the project;
- e) A detailed layout plan needs to be submitted to the Department showing all the facilities in the proposed development including distance from the any watercourses. Details of the final design must also be included as soon as a decision has been made, as the details of this factor may influence the environmental impact both during the construction and operational phases of the project;
- f) Material with pollution generating potential must be limited in construction activities. Any hazardous substances must be handled according to the relevant legislation relating to transport, storage and use of the substance.
- g) Any spillage of any hazardous materials including diesel that may occur during construction and operation must be reported immediately to our Department;
- h) Abstraction of water from a water resource (borehole or river) is considered a water use in terms of section 21(a) of the National Water Act (Act 36 of 1998). Should the applicant decide to use the abstracted water from a water resource for the use within the Wind Farm, it must be applied for;
- i) Clear color topographical map showing the property, facilities in the property, land use, water courses and location of water abstraction point.
- j) The disposal of general waste and that of hazardous waste must be carried out in an environmentally safe way as to prevent and/or minimise the potential for pollution of water resources and collection of which should be done by an accredited waste collector. All applicable Sections of the National Environmental Management: Waste Act 59 of 2008 should be strictly adhered to;
- k) Your client is therefore advised to apply and obtain the water use authorisation prior to commencement of the proposed activities. The applicant should send the intent to apply for a water use authorisation to the Department;

**RE: APPLICATION FOR AMENDMENT OF THE ENVIRONMENTAL AUTHORISATION: GREAT KAROO WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE, NOTHERN CAPE PROVINCE.**

- l) Should the project continue; pre-consultation meeting must be arranged and a site visit and must be conducted by DWS officials with the applicant, and then followed by a Water Use Licence Application (proof of consultation and submission of an application). This must be submitted to DWS in terms of the National Water Act, 1998 (Act 36 of 1998) before any activities take place;
- m) All applicable Sections of the National Environmental Management: Waste Act 59 of 2008 should be strictly adhered to;
- n) Section 19 & 20 of the National Water Act, 1998 (Act No.36 of 1998) should be adhered to;

This reply does not grant any exemption from the requirements of any applicable Act, Ordinance, Regulation or By-law.

This office reserves the right to revise initial comments and request additional information that may arise from correspondence and/or upon inspection.

You may contact the Department should you have any enquiries.

Yours sincerely



**DIRECTOR: INSTITUTIONAL ESTABLISHMENT**

**DATE:** 23/05/19

Department of Roads and Public Works



**Reference Number: L2.1.2.9 – DR02243/RE/0519**

**Enquires: V. Ngcobo / C. Ndubula**

**Date: 29 May 2019**

**Savannah Environmental (Pty) Ltd.**

**P.O. Box 148**

**Sunninghill, 2157**

**Attention: N. Venter**

**RE: APPLICATION FOR AMENDMENT TO THE ENVIRONMENTAL AUTHORISATION:  
GREAT KAROO WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE,  
NORTHERN CAPE**

Refer to your application letter dated 24 April 2019 with its Compact Disk contents.

- The Provincial Road that will be affected by your proposal is DR2243.
- DR2243 is a Class 4 Rural Provincial Road

The Department of Roads and Public Works (DRPW) hereby acknowledges the receipt of this application for the proposed access. However, the following information must be submitted to the DRPW before the review can continue:

- Detailed bell-mouth designs for the proposed accesses, which must be produced by an ECSA registered Engineer. Furthermore, the designs must comply with Geometric and Access Management standards as set out in TRH17 & TRH 26 respectively.
- A detailed Maintenance Plan for the affected gravel road.
- A complete, detailed transport study relating to the construction phase of this proposal.

Yours Sincerely

For and on behalf of

**THE DEPARTMENT OF ROADS AND PUBLIC WORKS NORTHERN CAPE**





# The DR&PW

DEPARTMENT : ROADS & PUBLIC WORKS  
NORTHERN CAPE PROVINCE  
REPUBLIC OF SOUTH AFRICA

APPLICATION DATE

DAY/MONTH/YEAR  
/ /

## WAYLEAVE / ENCROACHMENT APPLICATION

Any work undertaken within the statutory width or within a distance of 95 meters from the centreline of any building restriction road (Advertising on Roads and Ribbon Development Act, No. 21 of 1940) or within the statutory width or within 5 meters from the statutory boundary of any public road (Road Ordinance, 19 of 1976).

### SERVICE OWNER / APPLICANT DETAILS

Service Owner:		Applicant:	
Address:		Address:	
	Postal Code:		Postal Code:
Contact Person:		Contact Person:	
Contact No:		Contact No:	
Contact No:		Contact No:	
Email:		Email:	

### PURPOSE OF APPLICATION / SUBJECT


### SERVICE DETAILS

Fully describe, type of service, and work to be undertaken in the road reserve or building restriction area indicating clearly the location and position related to the km marker boards and road reserve boundary

### DESCRIPTION


### TYPE OF SERVICE

			Mark with X
Access		Power Line	
Pipeline (Water, sewer, etc)		Communication Line	
Other		If Other, Specify:	

### GPS COORDINATES:

Latitude:	° ' " S	Longitude:	° ' " E
-----------	---------	------------	---------

\*If Encroachment is parrallel to a Provincial Road, Provide Start and End Coordinates

Start Coordinates		End Coordinates	
Latitude:	° ' " S	Latitude:	° ' " S
Longitude:	° ' " E	Longitude:	° ' " E

\*Note Your application will not be processed if the GPS Coordinates have not been provided

--

**REQUIRED DRAWINGS**

			Mark with X
Detailed Designs	<input type="checkbox"/>	Cross Section	<input type="checkbox"/>
Locality Plans	<input type="checkbox"/>	Response Letters	<input type="checkbox"/>

\*Note: Referencing of drawings must be in relation to the Centreline of the road

\*\*Note: Your application will not be processed if required drawings have not been provided

**DECLARATION BY SERVICE OWNER:**

I ACCEPT ALL CONDITIONS IMPOSED IN TERMS OF ANY AGREEMENT BETWEEN THE DEPARTMENT OF ROADS AND PUBLIC WORKS AND OUR FIRM AS THE SERVICE OWNER AND ALL CONDITIONS IMPOSED ON THIS APPLICATION. I AM AUTHORISED TO SIGN ON BEHALF OF THE SERVICE OWNER

NAME (PRINT)

SIGNATURE

DATE

**COMPLETED FORM TO BE RETURNED TO**

**CHIEF DIRECTOR ROADS**

Enquires: M.Sithole & C.Ndubula

Postal Address

P.O.BOX 3132  
KIMBERLEY  
8300

Street Address

9 - 11 Stokroos Street  
Squarehill Park  
KIMBERLEY  
8301

TEL: 053 861 9600

FAX: 053 861 9626

EMAIL: [ncwayleaves@vodamail.co.za](mailto:ncwayleaves@vodamail.co.za)