West Coast One Wind Energy Facility, near Vredenburg, Western Cape Province

External Environmental Compliance Audit of the Project Environmental Management Programme (EMPr), in accordance with Regulation 54(A) of the EIA Regulations (2017)

December 2019

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REPORT DETAILS

DEA Reference No.	:	12/12/20/1581
Environmental Assessment Practitioner (EAP)		Jo-Anne Thomas (Savannah Environmental)
Title	:	External Environmental Compliance Audit of the Project EMPr for the West Coast One Wind Energy near Vredenburg, Western Cape Province
Authors	:	Savannah Environmental (Pty) Ltd Lisa Opperman
Internal Review		Karen Jodas
Client	:	Aurora Wind Power (RF) (Pty) Ltd
Report Revision	:	Revision 0
Date	:	December 2019

When used as a reference this report should be cited as: Savannah Environmental (2019) External Environmental Compliance Audit of the Project EMPr for the West Coast One Wind Energy Facility near Vredenburg, Western Cape Province.

DECLARATION OF INTEREST

I, Lisa Opperman, declare that:

- I act as the independent environmental auditor for the environmental compliance audit (November 2019).
- I have performed the work relating to the audit in an objective manner, even if this results in views and findings that are not favourable to the applicant.
- I declare that there are no circumstances that may compromise my objectivity in performing such work.
- I have expertise in conducting independent environmental audits, including knowledge of NEMA, the 2014 EIA Regulations (GNR 326) and any guidelines that have relevance to the activity.
- I have complied with NEMA, the 2014 EIA Regulations (GNR 326) and all other applicable legislation.
- I have no, and have not engaged in, conflicting interests in the undertaking of the audit.
- I have undertaken to disclose to the applicant and the competent authority all material information in my possession that reasonably has or may have the potential of influencing – any decision to be taken with respect to the project by the competent authority; and – the objectivity of any report, plan or document prepared by myself for submission to the competent authority.
- All the particulars furnished by me in this report are true and correct.
- I realise that a false declaration is an offence in terms of Regulation 48 and is punishable in terms of section 24F of the Act.
- I do not have and will not have any vested interest (either business, financial, personal or other) in the project other than remuneration for work performed.

Lisa Opperman (Auditor)

Signature

December 2019
Date

Karen Jodas (Internal Reviewer – SACNASP: 400106/99)

Signature

December 2019
Date

ACRONYMS AND ABBREVIATIONS

CAA	Civil Aviation Authority
DEA	Department of Environmental Affairs (National)
DEADP	Department of Environmental Affairs and Development Planning (Western Cape)
DWS	Department of Water and Sanitation
DoE	Department of Energy
EA	Environmental Authorisation
EAP	Environmental Assessment Practitioner
ECO	Environmental Control Officer
EIA	Environmental Impact Assessment
EMPr	Environmental Management Programme
GHG	Greenhouse Gas
GIIP	Good International Industry Practise
I&AP	Interested and Affected Party
IPP	Independent Power Producer
MW	Megawatts
NEMA	National Environmental Management Act (No. 107 of 1998)
NEM:BA	National Environmental Management: Biodiversity Act (No. 10 of 2004)
NHRA	National Heritage Resources Act (No. 25 of 1999)
NWA	National Water Act (No. 36 of 1998)
O&M	Operations and Maintenance
OEMPr	Operational Environmental Management Programme
OHS	Occupational Health and Safety
SAHRA	South African Heritage Resources Agency
WEF	Wind Energy Facility
WUL	Water Use License

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APPENDICES

1. INTRODUCTION AND BACKGROUND

Section 54(a)(3) of the EIA regulations (GNR 326, 7 April 2018) states:

> *(3) Where an environmental authorisation issued in terms of the ECA regulations or the previous NEMA regulations is still in effect by 8 December 2014, the EMPr associated with such environmental authorisation is subject to the requirements contained in Part 3 of Chapter 5 of these Regulations and the first environmental audit report must be submitted to the competent authority no later than 7 December 2019 and at least every 5 years thereafter for the period during which such environmental authorisation is still in effect.*

In accordance with these regulations, Savannah Environmental (Pty) Ltd has been appointed by Aurora Wind Power (RF) (Pty) Ltd to undertake an external environmental compliance audit of the project EMPr and prepare an external environmental compliance audit report, towards assessing the compliance of the EMPr for the West Coast One Wind Facility as per the regulations detailed above. The external environmental compliance audit was conducted to demonstrate Aurora Wind Power (RF) (Pty) Ltd.'s compliance with the EMPr applicable to the project.

1.1. Project Background

Aurora Wind Power (RF) (Pty) Ltd developed the West Coast One WEF and associated infrastructure with a generation capacity of up to 94MW. The WEF is located within the Saldanha Bay Local Municipality of the Western Cape Province. An area of ~28km^2 was identified for the development and comprises of the following farm portions:

- Portions 4 and 5 of Farm 95 (Zoutkasfontein), and
- Portions 1, 3, 4, 5, 6 and 9 of Farm 46 (Frans Vlei).

The infrastructure associated with the operation WEF includes:

- 47 wind turbine units
- Concrete foundations to support the turbine towers.
- Internal roads (approximately 6m in width) linking the wind turbines and other infrastructure on the site. Existing farm roads were used as far as possible.
- Underground (~ 1m deep) 33 kV cabling, linking the wind turbines to 33/132 kV substation.
- One 33/132 kV substation located within the development site. This substation has a high-voltage (HV) yard footprint of approximately 80m x 90m.
- A 132kV overhead power line linking the substation at the wind energy facility to Aurora substation.
- An operations and maintenance facility, including a storage building (40m x 20m), security office (10m x 5m) and a car park area (15m x 7m).

Construction of the project commenced in September 2013, and the project reached its Commercial Operation Date (COD) on 09 June 2015. During construction, compliance monitoring was conducted by the Environmental Control Officer (ECO) appointed to the project, Jubilee Bubala of Savannah Environmental. A number of annual environmental compliance audits have been conducted to date. The most recent external environmental audit conducted for the project was conducted by Danie Brummer of Savannah Environmental (Pty) Ltd for the September 2018 to November 2019 annual period (Operation

Phase Annual Environmental Audit for West Coast One WEF, Western Cape - Report 4). This external environmental compliance audit of the project EMPr focused on assessing the facility's compliance with those aspects of the EMPr Revision 1 (February 2013) and EMPr Revision 3 (July 2019) (DEA Reference No.: 12/12/20/1581) which are applicable to the operation of the project, and also provides an assessment of the adequacy of the EMPr to avoid or minimise impacts associated with the project.

2. OBJECTIVE OF THE AUDIT

The objective of this environmental audit as contained in Appendix 7 of the 2014 Environmental Impact Assessment (EIA) Regulations (GNR 326) and Regulation 54(a) is to:

- Report on:
  - The level of compliance with the conditions of the EMPr.
  - The extent to which the avoidance, management and mitigation measures provided for in the EMPr, achieve the objectives and outcomes of the EMPr.
- Identify and assess any new impacts and risks as a result of undertaking the activity.
- Evaluate the effectiveness of the EMPr.
- Identify shortcomings in the EMPr.
- Identify the need for any changes to the avoidance, management and mitigation measures provided for in the EMPr.

This Environmental Audit Report has been prepared in accordance with Appendix 7 of the 2014 EIA Regulations (GNR 326) and focuses on compliance with the EMPr as per the requirements of Regulation 54(A)(3). An overview of the contents of the Environmental Compliance Audit Report, as prescribed by Appendix 7 of the 2014 EIA Regulations (GNR 326), and where the corresponding information can be found within the report is provided in **Table 1**.

Table 1: Summary of where the requirements of Appendix 7 of the 2014 EIA Regulations (GNR 326) are provided in this Environmental Compliance Audit Report.

Requirement	Location in Report
(a) Details of the – (i) Independent person who prepared the environmental audit report. (ii) Expertise of the independent person that compiled the environmental audit report.	Refer to **Section 4** Refer to **Appendix A**
(b) A declaration that the independent auditor is independent in a form as may be specified by the competent authority.	Refer to **Declaration of Interest**
(c) An indication of the scope of, and the purpose for which, the environmental audit report was prepared.	Refer to **Section 3**
(d) A description of the methodology adopted in preparing the environmental audit report.	Refer to **Section 6**
(e) An indication of the ability of the EMPr, and where applicable, the closure plan to – (i) Sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity on an on-going basis.	Refer to **Section 10**

Requirement	Location in Report
(ii) Sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the closure of the facility. (iii) Ensure compliance with the provisions of environmental authorisation, EMPr, and where applicable, the closure plan.	
(f) A description of any assumptions made, and any uncertainties or gaps in knowledge.	Refer to **Section 5**
(g) A description of any consultation process that was undertaken during the course of carrying out the environmental audit report.	Refer to **Section 6** and **Section 11**
(h) A summary and copies of any comments that were received during any consultation process.	Refer to **Section 6**
(i) Any other information requested by the competent authority.	N/A

3. PURPOSE AND SCOPE

This Environmental Audit has been conducted to determine Aurora Wind Power (RF) (Pty) Ltd's compliance with applicable environmental management requirements, as per the requirements of Section 54(A)(3) of the EIA Regulations, GNR 326 of 2017. The scope of the Environmental Audit is confined to an assessment of those environmental management requirements contained within the project EMPr.

4. OVERVIEW OF THE INDEPENDENT ENVIRONMENTAL AUDITORS

West Coast One WEF was initially authorised through Jo-Anne Thomas of Savannah Environmental as the Environmental Assessment Practitioner. Subsequently, the Environmental Control Officer role has been fulfilled by Jubilee Bubala (during construction) and Danie Brummer (during operation). This independent environmental compliance audit was however undertaken by Lisa Opperman (refer to **Table 2**), and reviewed by Karen Jodas (refer to **Table 3**).

Table 2: Details of the Independent Environmental Auditor for this Section 54 audit report.

	Lisa Opperman
Position:	Environmental Consultant
Company:	Savannah Environmental (Pty) Ltd
Qualification:	B.Sc. (Honours) Environmental Management and Geography
Experience:	4 years and 9 months
Contact:	011 656 3237
Email:	lisa.o@savannahsa.com

Table 3: Details of the Report Reviewer.

Name:	Karen Jodas
Position:	Project Manager and Director
Company:	Savannah Environmental (Pty) Ltd
Qualification:	M.Sc in Geography (Geomorphology)
Professional Registration:	Professional Natural Scientist (400106/99) (SACNASP)
Experience:	20 years

Contact:	011 656 3237
Email:	karen@savannahsa.com

A signed Declaration of Interest confirming the auditors' independence is included in this Environmental Audit Report. CVs of the Independent Environmental Auditor and Report Reviewer are attached as **Appendix A** to this report.

5. ASSUMPTIONS AND LIMITATIONS

The following assumptions and limitations are applicable to this Environmental Audit Report:

» It is assumed that the information provided during the site visit and interview was accurate and true at the time of conducting the site visit.
» It is assumed that all information contained within the environmental files maintained onsite was accurate and true.

6. APPROACH TO CONDUCTING THE AUDIT

6.1. Pre-audit planning

Prior to undertaking the audit, the scope and objectives of the audit were determined through a review of relevant information applicable to the project.

Following the review of existing information, an audit checklist was prepared for use as a tool during the audit to identify any issues of non-compliance and / or areas where action plans may be required to be implemented to address any identified issues of concern.

The audit checklist was prepared based on the management specifications contained within the project EMPr. As the West Coast One WEF is currently in operation, all conditions barring those related to the decommissioning of the facility are applicable to this audit. The checklist therefore contains all those specifications applicable given the current status of the project, i.e. pre-construction, construction and operation phases.

6.2. Conducting the Audit

A site visit was conducted on Wednesday, 27 November 2019, and included:

» A survey of the West Coast One WEF and associated infrastructure.
» A review of on-site documentation and procedures.
» A review of the ECO Final Environmental Monitoring Report submitted to the DEA (June 2015), the Annual Environmental Audit Report No. 3 (Operations) (October 2018) and the Annual Environmental Audit Report No. 4 (Operations) (November 2019).
» Interviews with Lerole Power Operations and Maintenance (Propriety) Limited (on behalf of Aurora Wind Power (RF) (Pty) Ltd)

The following parties were present during the site visit:

» Lisa Opperman – Savanah Environmental's Independent Auditor;
» Christiaan Swanepoel – Lerole CEO (on behalf of Aurora Wind Power (RF) (Pty) Ltd); and
» John Cornelius– currently being trained in the role as Environmental Manager (Lerole).

6.3. Post Audit

Following the site visit, an Environmental Audit Report was compiled based on the findings of the audit. A copy of this Audit Report was submitted to the Department of Environmental Affairs (DEA) in accordance with the requirements of Section 54(A)(3) prior to the 7th of December 2019.

7. FINDINGS OF THE AUDIT

Compliance ratings were provided for each element of the audit checklist using the 4-point rating scale described below:

Compliance status	Rating	Description of compliance
Compliant	3	Compliant with no further action required to maintain compliance
Compliant	2	Compliant apart from minor or immaterial recommendations to improve the strength internal controls to maintain compliance
Compliant	1	Compliant with major or material recommendations to improve the strength of internal controls to maintain compliance
Non-Compliant	0	Does not meet minimum requirements

Appendix B provides details of the findings of the audit. The details contain the audit checklist for compliance with the conditions contained in EMPr Revision 1 (February 2013) and EMPr Revision 3 (July 2019) (DEA Reference No. 12/12/20/1581).

8. AUDIT RESULTS AND RECOMMENDATIONS

8.1. Overview of Audit Findings

The following recommendations are made based on the findings of the audit for the West Coast One WEF:

» It is recommended that the current Grievance Mechanism Procedure attached as Appendix B of the EMPr Revision 3 must be immediately implemented and a complaints register created and updated as complaints are received and addressed.
» It is recommended that an appropriate Alien Invasive Management Plan be immediately compiled and implemented for the management of alien invasive species within the site. Affected landowners may need to be consulted to determine specific areas to be managed by the landowner(s).
» It is recommended that MSDS files are kept in the storage area for flammable and combustible liquids. The MSDS files must cover all liquids being stored.

» It is recommended that the existing waste register be utilised and updated. This must be implemented immediately.
» It is recommended that additional erosion measures on steep slopes along existing access roads and where erosion occurs, must be implemented prior to the start of the next rain season.

8.2. Conclusion

Although some instances were identified as being less than 100% compliant with the conditions of EMPr Revision 1 (February 2013) and EMPr Revision 3 (July 2019) these were considered to be minor and rectifiable. Overall the site was found to be well-managed and operated and maintained in an environmentally sound manner.

An overall compliance percentage of Aurora Wind Power's compliance with the conditions of EMPr Revision 1 and EMPr Revision 3 was calculated (refer to **Table 4**). The following compliance ratings are applicable in this regard:

» A rating of 100%: best practice / full compliance.
» A rating of >50%: compliance is satisfactory.
» A rating of <50%: compliance is unsatisfactory.
» A rating of 0%: nothing in place.
» A rating of N/A: not applicable at this time (and therefore excluded from the overall compliance rating).

Overall the West Coast One WEF was found to be mostly compliant with the conditions of EMPr Revision 1 and EMPr Revision 3 to varying degrees (refer to **Table 4**), although some instances of partial non-compliance and non-compliance were recorded. The facility is 91% fully compliant with the conditions of EMPr Revisions 1 and 3 (with 6% of the compliance conditions requiring minor strengthening, to achieve full compliance). Non-compliance with the EMPr Revisions 1 and 3 was identified to be 3% which is not considered to be a major issue and easily rectifiable to reach compliance.

Table 4: Overview of the West Coast One WEF overall compliance.

Compliance status	Rating	Description of compliance	EMPr	
			Results	%
Compliant	3	Compliant with no further action required to maintain compliance.	143	91%
Compliant	2	Compliant apart from minor or immaterial recommendations to improve the strength internal controls to maintain compliance.	4	3%
Compliant	1	Compliant with major or material recommendations to improve the strength of internal controls to maintain compliance.	5	3%
Non-Compliant	0	Does not meet minimum requirements.	5	3%
TOTAL:			**157**	**100%**

9. EVALUATION OF THE EMPR

As per Appendix 7 of the EIA Regulations, GNR 326 of 2017, an external audit report must include "an indication of the ability of the EMPr to:

(i) sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity on an on going basis;

(ii) Sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the closure of the facility; and
(iii) Ensure compliance with the provisions of the EMPr;"

9.1. Ongoing impact avoidance, management and mitigation

Based on the audit outcomes and results reported above, the auditor is satisfied that the EMPr is sufficient and able to provide for the avoidance, management and mitigation of the environmental impacts associated with the undertaking of the activity on an ongoing basis, and that no further amendment or alteration to the EMPr is required in order to maintain this reliability of the EMPr. Recommendations made from the findings of the audit, as detailed in Section 8.1 are however required to be implemented to ensure the effectiveness of the EMPr.

It must be noted that the timeframes included under "Objective: To ensure the implementation of an appropriate fire management plan during the operation phase" on page 27 of EMPr Revision 3 are incorrect and must be updated to reflect the correct timeframes for the operation phase. Currently the timeframes area referring to the pre-construction and construction phases.

9.2. Closure impact avoidance, management and mitigation

The facility is currently in operation and will not be decommissioned or closed in the foreseeable future, and therefore no decommissioning activities are applicable to this audit. However, based on the audit outcomes and content of the EMPr, the auditor is satisfied that sufficient provision has been made for the decommissioning of the facility (for instance, through the requirement contained in the EMPR for the decommissioning activities to be undertaken in accordance with the legislation applicable at the time). No further amendment or alteration to the EMPr is required currently.

9.3. Ensuring compliance with provisions of the EMP

Based on the audit outcomes and results reported above, the auditor is satisfied that the EMPr is sufficient and able to ensure compliance with the provisions of the environmental authorisation and EMPr, and that no further amendment or alteration to the EMP is required in order to maintain this reliability of the EMPr.

10. CONCLUSIONS AND RECOMMENDATIONS

It should be noted that limited non-compliances were recorded as part of the independent external environmental compliance audit on the project EMPr. As a result, recommendations have been provided, including the following:

» It is recommended that the current Grievance Mechanism Procedure attached as Appendix B of the EMPr Revision 3 must be immediately implemented and a complaints register created and updated as complaints are received and addressed.
» It is recommended that an appropriate Alien Invasive Management Plan be immediately compiled and implemented for the management of alien invasive species within the site. Affected landowners may need to be consulted to determine specific areas to be managed by the landowner(s).

- It is recommended that MSDS files are kept in the storage area for flammable and combustible liquids. The MSDS files must cover all liquids being stored.
- It is recommended that the existing waste register be utilised and updated. This must be implemented immediately.
- It is recommended that additional erosion measures on steep slopes along existing access roads and where erosion occurs, must be implemented prior to the start of the next rain season.

It must be noted that the non-compliances are not considered to be significant and are easily rectifiable and implementable.

It is the opinion of the independent auditor EMPr Revision 1 (February 2013) and EMPr Revision 3 (July 2019), and its supporting documentation sufficiently provides for the avoidance, management and mitigation of environmental impacts associated with the project. No additional impacts or risks have been identified to be associated with the undertaking of the proposed activities based on the audit.

11. STAKEHOLDER CONSULTATION

11.1. Notification of all potential and registered interested and affected parties

In accordance with the requirements of Section 34(6) of the EIA Regulations (GNR 326 of 2017), the following consultation must form part of the audit report submission:

- Within 7 days of the date of submission of an environmental audit report to the competent authority, the holder of an environmental authorisation must notify all potential and registered interested and affected parties of the submission of that report, and make such report immediately available
  - (a) to anyone on request; and
  - (b) on a publicly accessible website, where the holder has such a website.

In order to be remain compliant with these requirements, all potential and registered interested and affected parties have been notified of the submission of the external environmental compliance audit of the project EMPr by:

- The placement of a site notice along the project boundary on 27 November 2019 (Please refer to **Appendix C** for proof of site notice and precise location);
- Notification of all registered I&APs via email on 06 December 2019 (refer to **Appendix D**);and
- Uploading the audit report onto the Savannah Environmental website (www.savannahsa.com) for download upon request.

APPENDIX A:
CVS OF INDEPENDENT AUDITORS AND REPORT REVIEWER

1st Floor, Block 2, 5 Woodlands Drive Office Park
Woodlands Drive, Woodmead
Johannesburg, South Africa

Email: lisa.o@savannahsa.com
Tel: +27 (11) 656 3237

CURRICULUM VITAE OF LISA OPPERMAN

Profession : Environmental Assessment Practitioner and GIS Consultant

Specialisation: Environmental Impact Assessments, Basic Assessments, Site Screening and Site Selection reporting, compilation of maps through the use of ArcGIS, Social Impact Assessments

Work Experience: 4 years and 10 months of experience in the environmental management and GIS field

VOCATIONAL EXPERIENCE

Lisa Opperman has four years and 10 months of experience in the environmental field. She has worked on a variety of EIA processes including renewable energy projects, as well as industrial developments. She has also been involved in the undertaking of public participation for projects located in South Africa which has included the undertaking of public meetings, focus group meetings and key stakeholder meetings in both Afrikaans and English. She also has experience in working with ArcGIS 10 for the compilation of maps, the manipulation of data and screening for environmental sensitivities within areas with the potential for development.

SKILLS BASE AND CORE COMPETENCIES

- GIS Mapping
- EIA Report Writing
- Social Impact Assessments
- Conducting of public involvement processes
- Administrative tasks
- Analysis and manipulation of geographical information and technical experience with the use of ArcGIS

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc. (Hons) Environmental Management (2014), North-West University, Potchefstroom
- B.A Psychology, Geography and Environmental Studies (2013), North-West University, Potchefstroom

Courses:

- Environmental Legal Compliance and Auditing (2017), Janice Tooley at the Protea Hotel OR Thambo, Johannesburg

EMPLOYMENT

Date	Company	Roles and Responsibilities
February 2015 – current	Savannah Environmental (Pty) Ltd	Environmental Assessment Practitioner and GIS Consultant *Tasks include: Compilation of Environmental Scoping Reports, Plan of Study, Environmental Impact Assessment Reports, Basic Assessments and Environmental management programmes; Environmental Screening Reports; Specialist management; project proposals and tenders; Client liaison and Marketing; Process EIA Applications, GIS Mapping, spatial data analysis and manipulation; Compilation of Social Impact Assessments*

PROJECT EXPERIENCE

Renewable Power Generation Projects: Solar Energy Facilities

Screening Studies

Project Name & Location	*Client Name*	*Role*
Pre-feasibility Desktop Screening and Fatal Flaw Scan for a Solar PV Project near Lichtenburg, North West Province	*ABO Wind AG*	*EAP and GIS Consultant*
Pre-feasibility Desktop Screening and Fatal Flaw Scan for a Solar PV Project neat Aggeneys, Northern Cape Province	*ABO Wind AG*	*EAP and GIS Consultant*

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	*Client Name*	*Role*
Buffels PV 1 & Buffels PV 2 Solar Energy Facilities near Orkney, North West	*Kabi Solar*	*EAP and GIS Consultant*
Woodhouse Solar 1 & Woodhouse Solar 2 PV Facilities near Vryburg, North West	*Genesis Eco-Energy Developments*	*EAP and GIS Consultant*
Orkney Solar Farm, North West	*Genesis Eco-Energy Developments*	*EAP and GIS Consultant*
Tewa Isitha Solar 1 & Tewa Isitha Solar 2 PV facilities near Upington, Northern Cape	*AfriCoast Energy*	*EAP and GIS Consultant*
Lichtenburg 1, Lichtenburg 2 and Lichtenburg 3 PV Facilities, near Lichtenburg, North West Province (EIA Phase)	*ABO Wind AG*	*EAP and GIS Consultant*

Basic Assessments

Project Name & Location	*Client Name*	*Role*
Harmony Gold 3x PV Facilities, Welkom, Free State	*BBEntropie*	*EAP and GIS Consultant*
Khunab Solar Development, consisting of Klip Punt PV1, McTaggarts PV1, McTaggarts PV2, McTaggarts PV3 and the Khunab solar Grid	*Atlantic Energy Partners and Abengoa*	*Project management, Social Impact Assessment*

Connection near Upington, Northern Cape Province		*Specialist and GIS Consultant*
Sirius Solar PV3 and PV4, near Upington, Northern Cape Province	*Solal*	*Co-author to Social Impact Assessments*

Renewable power generation projects: Wind Energy Facilities

Screening Studies

Project Name & Location	***Client Name***	***Role***
Juno Wind Farm Screening Assessment Report near Lamberts Bay, Western Cape Province	*AMDA Developments*	*EAP and GIS Consultant*
Lamberts Bay Wind Farm Screening Assessment Report near Lamberts Bay, Western Cape Province	*Windy World*	*EAP and GIS Consultant*
Pre-feasibility Desktop Screening and Fatal Flaw Scan for the Kudusberg and Rondekop Wind Energy Facilities, Northern Cape and Western Cape Provinces	*ABO Wind AG*	*EAP and GIS Consultant*
Pre-feasibility Desktop Screening and Fatal Flaw Scan for Wind Projects near Touws River, Western Cape Province	*ABO Wind AG*	*EAP and GIS Consultant*

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	***Client Name***	***Role***
Boulders Wind Farm, Western Cape Province	*Vredenburg Windfarm*	*EAP and GIS Consultant*
Namas Wind Farm, Northern Cape Province	*Genesis Namas Wind (Pty) Ltd*	*EAP and GIS Consultant*
Zonnequa Wind Farm, Northern Cape Province	*Genesis Zonnequa Wind (Pty) Ltd*	*EAP and GIS Consultant*

Grid Infrastructure Projects

Basic Assessments

Project Name & Location	***Client Name***	***Role***
132/11kV Olifantshoek Substation and Power Line, Northern Cape	*Eskom*	*EAP and GIS Consultant*
Grid connection infrastructure for the Namas Wind Farm, Northern Cape Province	*Genesis Namas Wind (Pty) Ltd*	*EAP and GIS Consultant*
Grid connection infrastructure for the Zonnequa Wind Farm ,Northern Cape Province	*Genesis Zonnequa Wind (Pty) Ltd*	*EAP and GIS Consultant*
Khunab Solar Grid Connection, near Upington, Northern Cape Province	*Atlantic Energy Partners and Abengoa*	*Project management, Social Impact Assessment Specialist and GIS Consultant*

Gas Projects

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	***Client Name***	***Role***
Richards Bay Combined Cycle Power Plant (CCPP) power plant, KwaZulu-Natal (Scoping Phase)	*Eskom*	*EAP (assistance) and GIS Consultant*

Basic Assessments

Project Name & Location	Client Name	Role
Neopak Combined Heat and Power (CHP) Plant, Rosslyn, Gauteng	*Neopak*	*EAP, Public Participation and GIS Consultant*

Screening Studies

Project Name & Location	Client Name	Role
Richards Bay Combined Cycle Power Plant (CCPP) power plant, near Richards Bay, KwaZulu-Natal	*Eskom*	*EAP and GIS Consultant*

Infrastructure Development Projects (bridges, pipelines, roads, etc)

Basic Assessments

Project Name & Location	Client Name	Role
Water Treatment Plant at the Neopak Facility, Rosslyn, Gauteng	*Neopak*	*EAP, Public Participation and GIS Consultant*

Housing and Urban Projects

Environmental Impact Assessments and Environmental Management Programmes

Project Name & Location	Client Name	Role
Metals Industrial Cluster near Kuruman, Northern Cape	*Northern Cape Department of Economic Development and Tourism*	*EAP and GIS Consultant*

Environmental Management Tools

Environmental Management Programmes

Project Name & Location	Client Name	Role
Environmental Management Programme (EMPr) for the Nxuba Wind Farm, Eastern Cape	*ACED*	*EAP*
Operation Environmental Management Programme (EMPr) for Phase 1 of the Amakhala Emoyeni Wind Energy Facility, Eastern Cape	*Cennergi*	*EAP*
Operation Environmental Management Programme (EMPr) for the Tsitsikamma Community Wind Energy Facility, Eastern Cape Province	*Cennergi*	*EAP*
Environmental Management Programme (EMPr) for the Skuitdrift 1 Solar PV Energy Facility near Augrabies, Northern Cape Province	*Building Energy South Africa*	*EAP and GIS Consultant*
Environmental Management Programme (EMPr) for the Skuitdrift 2 Solar PV Energy Facility near Augrabies, Northern Cape Province	*Building Energy South Africa*	*EAP and GIS Consultant*

Environmental and Social Management System (ESMS)

Project Name & Location	Client Name	Role
Preparation of Policies and Plans for the Kruisvallei Hydro Scheme, Free State Province	*Building Energy South Africa*	*EAP assistance*

savannah environmental

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CURRICULUM VITAE OF KAREN JODAS

Profession : Environmental Management and Compliance Consultant ; Environmental Assessment Practitioner. Professional Natural Scientist: Environmental Science since 1999.

Specialisation: Strategic environmental assessment and advice; development of plans and guidelines; environmental compliance advise and monitoring; Environmental Impact Assessment; environmental management; project management and co-ordination of environmental projects; peer review; policy, strategy and guideline formulation; renewable energy projects; water resources management.

VOCATIONAL EXPERIENCE

Provide technical input for projects in the environmental management field, specialising in strategic evaluation, Environmental Impact Assessment studies, environmental management plans, programmes and guidelines, integrated environmental management, environmental compliance monitoring; peer review of EIA reports and processes, strategy and guideline development, and public participation. Key focus on overall Project Management, integration of environmental studies and environmental processes into larger engineering-based projects, strategic assessment, and the identification of environmental management solutions and mitigation/risk minimising measures.

Excellent working knowledge of environmental legislation, strategies, guidelines and policies. Compilation of the reports for environmental studies are in accordance with the all relevant environmental legislation under the National Environmental Management Act. Due consideration of Equator Principles and compliance with IFC performance standards is now a part of all projects.

SKILLS BASE AND CORE COMPETENCIES

- Twenty years (20) of experience in the environmental management, impact assessment and compliance fields
- Eighteen (18) years of experience in Project Management - Project management of large environmental assessment and management projects
- Strategic and compliance advise for all aspects of environmental assessment and management
- External and peer review of environmental assessment and compliance reporting as well as EIA processes
- Working knowledge of environmental planning policies, regulatory frameworks and legislation
- Input and review of Environmental Management Plans and Programmes, including Invasive Species Monitoring, Control and Eradication Plans
- Identification and assessment of potential environmental impacts and benefits
- Development of practical and achievable mitigation measures and management plans and evaluation of risk to project execution
- Experienced in environmental compliance advise, monitoring and reporting for construction projects
- Compilation and review of the reports in accordance with all relevant environmental legislation
- Public participation/involvement and stakeholder consultation
- Environmental strategy, policy and guidelines development
- Experienced in assessments for both linear developments and nodal developments
- Key experience in the assessment of impacts associated with renewable energy projects
- Wide range of experience for public and private sector projects
- Experienced consultant in projects in Sub-Saharan Africa.

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- B.Sc Earth Sciences, majoring in Geography and Zoology, Rhodes University, Grahamstown, 1993
- B.Sc Honours in Geography (in Environmental Water Management), Rhodes University, Grahamstown, 1994. Major subjects included Water Resources Management, Streams Ecology, Fluvial Geomorphology and Geographic Information Systems.
- M.Sc in Geography (Geomorphology), Rhodes University, Grahamstown, 1996

Short Courses:

- Water Quality Management, Potchefstroom University, 1998
- Environmental Law Course, Aldo Leopold Institute, 2002
- WindFarmer Wind Farm Design course, Garrad Hassan, 2009

Professional Society Affiliations:

- Registered with the South African Council for Natural Scientific Professions as a Professional Natural Scientist: Environmental Science (400106/99)

Other Relevant Skills:

- Xtrack Extreme – Advanced Off-Road Driving Course (2003)

EMPLOYMENT

Date	Company	Roles and Responsibilities
2006 - Current	Savannah Environmental (Pty) Ltd	Director *Independent specialist environmental consultant, Environmental Assessment Practitioner (EAP) and advisor*
1997 – December 2005	Bohlweki Environmental (Pty) Ltd	Associate *Environmental Management Unit: Manager; Principle Environmental Scientist focussing on Environmental Management and Project Management*

APPENDIX B:
AUDIT CHECKLIST FOR COMPLIANCE WITH THE CONDITIONS CONTAINED IN EMPR

ENVIRONMENTAL MANAGEMENT REPORTING CHECKLIST FOR THE WEST COAST ONE WIND ENERGY FACILITY ON A SITE NEAR VREDENBURG, WESTERN CAPE:

PERIOD: November 2019

SITE: WEST COAST ONE WIND ENERGY FACILITY

COMPLETED BY: Lisa Opperman

savannah environmental

Environmental Management Programme Requirements for Design Phase

EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
OBJECTIVE: To ensure that the design of the facility responds to the identified environmental constraints and opportunities								
45	Undertake pre-construction surveys for the following: »Ecology »Avifauna »Heritage			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	Specialists	
45	Ecological survey: The most sensitive landscape features for planning purposes in the study area will be the presence of dams, wetlands, drainage lines and pockets of natural fynbos and renosterveld vegetation. These features and an associated 30 m buffer should be excluded from any development footprint wherever possible. Refer to the walk through survey, located in Appendix D for details. All previously cultivated land had been terraced and buffer strips were located between terraces diverting runoff from the croplands.			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	Specialists	
45	Avifaunal survey: High sensitivity areas with regards to potential collision risk have been identified on the basis of the presence of rivers/streams, steep slopes and ridges. The rivers/streams and pockets of natural vegetation are shown in Figure 2.2. These areas are preliminary recommendations and are recommended on a precautionary basis. In order to refine these buffer areas a bird monitoring program, Appendix D, has been implemented pre-construction to gather appropriate information to inform the final design phase of the facility, thorough field work involving visiting each affected turbine site and writing a report to construction commencing. In addition, more detailed observations of avifaunal presence and behaviour should be undertaken within these areas, preferably across more than one season. This monitoring should be undertaken prior to the final design phase of the facility in order to inform the placement of turbines within this area and minimise potential impacts, the initial data on bird distribution and breeding behaviour on priority species collected on Avifauna must be submitted to Birdlife South Africa and Endangered Wildlife Trust (EWT).			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	Specialists	
45	Heritage survey: A walk-through survey of the wind energy facility site during the final design phase in order to determine the need to implement any additional mitigation measures.			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	Specialists	
46	Obtain heritage permit for impacting on archaeological material at Turbine 45 and some 60m to the north-west of Turbine 7.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power	
46	Consider design level mitigation measures recommended by the specialists, especially with respect to visual aesthetics, noise, flora, aquatic ecology (i.e. wetlands and pans), avifauna, and heritage, as detailed within the EIA report and relevant appendices. These recommendations are to be supplemented by information collected during the pre-construction surveys.			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	EPC Contractor Aurora Wind Power	
46	Access roads to be carefully planned to minimise the impacted area and prevent unnecessary over compaction of soil.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	
46	Cut and fill areas at turbine sites along road and at sub-station/transformer sites to be determined and indicated on facility layout plan.			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	EPC Contractor	
46	No turbines in areas surveyed to be high avifaunal sensitivity areas during the pre-construction survey.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power and avifauna specialist	
46	The noise emission specifications of wind turbine generators should be considered when selecting the equipment.			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power	

Environmental Management Programme Requirements for Design Phase								
EMPr location (page)	**Condition**	**Compliance**		**Score**	**Comment**	**If no, corrective action**	**Responsibility**	**Photographic Evidence**
		Yes	**No**					
46	Noise modelling should play a role in the design of the layout of the facility. An appropriate buffer zone should be developed around all potentially sensitive receptors (proposed to be 1000m), with no wind turbines in this buffer zone.			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power	
46	Relocate turbines outside of environmental sensitive areas identified within the EIA.			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	Engineering Design Consultant Aurora Wind Power	
46	A monitoring programme should be implemented to document the effect of the wind turbines on birds (refer to Appendix D). All monitoring reports are to be submitted Western Cape Department of Environment and Development Planning (DEAD&P), Bird life South Africa and Endangered Wildlife trust (EWT) and Cape nature. This should commence before construction (to provide a benchmark), and continue during construction and during operation.	✓		**3**	It was confirmed by the Site Manager during the interview that monitoring of avifauna is being undertaken and that daily carcass searches are undertaken. It was confirmed that Arcus is responsible for the monitoring and undertakes field surveys 4 times a year.	N/A	Aurora Wind Power in consultation with specialist	
46	A detailed geotechnical investigation is required for the design phase.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	
46	Compile a comprehensive stormwater management plan for hard surfaces (e.g. substation footprints) as part of the final design of the project.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	
47	Balance technical and financial considerations against environmental constraints and opportunities in finalising the design of key elements.			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	EPC Contractor and Aurora Wind Power	
47	Skills audit to be undertaken to determine training and skills development requirements			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power	
47	Implement an environmentally responsive planning approach to roads and infrastructure to limit cut and fill requirements.			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
47	A lighting engineer must be consulted to assist in the planning and placement of light fixtures in order to reduce visual impact associated with glare and light trespass.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	
OBJECTIVE: To ensure selection of best environmental option for alignment/design of the power lines and associated access roads								
Not applicable - only auditing WEF								
OBJECTIVE: Minimise storm water runoff (guideline for stormwater management plan)								
49	Reduce the potential increase in surface flow velocities and the resultant impact on the localised drainage system through increased sedimentation.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	
49	Appropriately plan hard-engineered bank erosion protection structures.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	

EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
	Environmental Management Programme Requirements for Design Phase							
		Yes	No					
49	Ensure that the design of the facility minimises the impact on storm water flows to ensure suitable handling of storm water within the site. The design will comply with the Agricultural Impact Assessment approval. The Operator must ensure that the storm water related design provisions are maintained.	✓		**3**	Verified on site and as part of the interview with the Site Manager. It was confirmed that yearly maintenance of storm water infrastructure is undertaken and that the maintenance ended June. Maintenance is undertaken during the raining season. Confirmation provided by site Manager of a Maintenance manual for Vdrains in areas with runoff.	N/A	EPC Contractor & Operator	
50	Design measures for storm water management need to allow for surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015)	N/A	EPC Contractor	
	OBJECTIVE: Protection of Bats							
50	A preconstruction survey for bats must be continued to confirm whether bat species of concern occur on site or not and whether roosting habitats or known important maternity roosts occur within close proximity to the site.			**N/A**	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power and Specialist	
51	If the preconstruction survey finds that the presence of bats or roosting habitats of concern occur, then the monitoring programme should be continued during construction and operation to document the effect of wind turbines on bat species of concern.	✓		**3**	It was confirmed by the Site Manager during the interview that monitoring is being undertaken and that the microphones for bats are still present on the site	N/A	Aurora Wind Power and Specialist	
	OBJECTIVE: Initiate Bird Monitoring Program							
51	Undertake pre-construction bird monitoring on the proposed development site.	✓		**3**	Confirmation was confirmed in the Annual Audit Report No. 3 (Operations) of October 2018 undertaken by Savannah Environmental.	N/A	Aurora Wind Power and Specialist	
52	Review report on the full year of pre-construction monitoring, and determine need to implement additional mitigation to minimise impacts on birds.	✓		**3**	Confirmation was confirmed in the Annual Audit Report No. 3 (Operations) of October 2018 undertaken by Savannah Environmental.	N/A	Advising scientists, monitoring agency in negotiation with Aurora Wind Power	
	OBJECTIVE: To ensure effective communication mechanisms							
52	Compile and implement a grievance mechanism procedure for the public (as outlined in Appendix F) to be implemented during both the construction and operational phases of the facility. This procedure should include details of the contact person who will be receiving issues raised by interested and affected parties, and the process that will be followed to address issues.	✓		**1**	It was confirmed during the interview with the Site Manager that no grievance mechanism is in place for the operation of the wind energy facility. However, all complaints are directed to Aurora Wind Power via email and dealt with accordingly and resolved. It was also confirmed that there is not complaints register being kept on site and updated.	A Grievance Mechanism Procedure is attached as Appendix B of the EMPr (rev 3). This procedure must be immediately implemented and a register created and updated as complaints are received and addressed.	Aurora Wind Power	
52	Develop and implement a grievance mechanism for the construction, operational and closure phases of the project for all employees, contractors, subcontractors and site personnel. This procedure should be in line with the South African Labour Law.	✓		**1**	It was confirmed during the interview with the Site Manager that no grievance mechanism is in place for the operation of the wind energy facility. However, all complaints are directed to Aurora Wind Power via email and dealt with accordingly and resolved. It was also confirmed that there is not complaints register being kept on site and updated.	A Grievance Mechanism Procedure is attached as Appendix B of the EMPr (rev 3). This procedure must be immediately implemented and a register created and updated as complaints are received and addressed.	Aurora Wind Power	
53	Liaison with landowners is to be undertaken prior to the commencement of construction in order to provide sufficient time for them to plan agricultural activities.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power / Contractor	

	Environmental Management Programme Requirements for Design Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
				17				
	TOTAL SCORE			47				
	AS AVERAGE			2.8				
	AS PERCENTAGE			92				

ENVIRONMENTAL MANAGEMENT REPORTING CHECKLIST FOR THE WEST COAST ONE WIND ENERGY FACILITY ON A SITE NEAR VREDENBURG, WESTERN CAPE:

PERIOD: November 2019
SITE: WEST COAST ONE WEF
COMPLETED BY: Lisa Opperman

Environmental Management Programme Requirements for Construction Phase

EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
OBJECTIVE: Environmentally sensitive location of construction equipment camps on site								
55	Before construction commences, representatives from the local authority and community-based organisations (e.g. residents associations), as well as neighbouring residents should be informed of the details of the construction company, size of the workforce and construction schedules	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power	
55	The exact siting of the construction equipment camp shall be negotiated with the relevant landowner, and must take cognisance of any sensitive areas identified by the EIA studies. The location of this construction equipment camp shall be approved by the project Environmental Control Officer (ECO)	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	
55	Minimise vegetation clearing and levelling for equipment storage areas. All plants that are able to be rescued and transplanted must be done in a manner recommended in the Plant Rescue Plan (refer to Appendix G), and then used for rehabilitation.	✓		**3**	Verified on site and as part of the interview with the Site Manager. It was confirmed that no plants were rescued and transplanted by the site Manager. Permits were obtained for the removal of the plants as confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	
55	Rehabilitate all disturbed areas (refer to the vegetation rehabilitation plan for guidance - Appendix G) at the construction equipment camp as soon as construction is complete within an area.	✓		**3**	Verified on site and as part of the interview with the Site Manager. It was confirmed by the site manager that all disturbed areas were rehabilitated including the construction equipment camp. It was confirmed by the Site Manager that the construction equipment camp area is currently being used for cultivation by the landowner.	N/A	EPC Contractor	
OBJECTIVE: Site Establishment and Securing the site								
56	Secure site, working areas and excavations in an appropriate manner, as agreed with the SHE Representative.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
56	Where necessary to control access, fence and secure area.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
56	Fence and secure Contractor's equipment camp.	✓		**3**	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	

Environmental Management Programme Requirements for Construction Phase								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
56	All development footprints for roads, buildings, underground cables, laydown areas and turbine footings should be appropriately fenced off and clearly indicated with flags and/or danger tape strips. There is to be no disturbance outside these demarcated areas.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
57	Establish the necessary ablution facilities with chemical toilets. Provide adequate sanitary facilities and ablutions for construction workers (1 toilet per every 15 workers) at appropriate locations on site.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
57	Ablution or sanitary facilities should not be located within 100 m from a 1:100 year flood line including water courses, wetlands or within a horizontal distance of less than 100 m, whichever is applicable	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015). Verified on site and as part of the interview with the Site Manager. It was confirmed by the site manager that one of the sanitary facilities associated with one of the security access points was located within a watercourse, however the ablution facility has been removed and the site access point closed.	N/A	Contractor	
57	Supply adequate waste collection bins at site where construction is being undertaken.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
57	Where a registered waste site is not available close to the construction site, provide a method statement with regard to waste management.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
57	All unattended open excavations shall be adequately demarcated and/or fenced.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
OBJECTIVE: Maximise local employment and business opportunities associated with the construction phase								
58	Ensure that, as far as possible, a minimum of 80% of the low-skilled workers are sourced from the local area as far as possible.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power and contractors	
58	Where required, implement appropriate training and skills development programmes prior to the initiation of the construction phase to ensure that 80% target is met.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power	
58	Develop a database of local BEE service providers and ensure that they are informed of tenders and job opportunities;			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power	

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
58	Identify potential opportunities for local businesses	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power	
OBJECTIVE: Avoid the potential impacts on family structures and social networks associated with presence of construction workers from outside the area								
59	Tender documents for contractors include conditions set out in SIA, including transport of workers home over weekends, transportation of workers home on completion of construction phase and establishment of a Monitoring Forum.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power	
59	Identify local contractors who are qualified to undertake the required work			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power	
59	Ensure that the majority of the low-skilled workers are sourced from the local area. This should be included in the tender documents. Construction workers should be able to provide proof of having lived in the area for five years or longer.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power and contractors	
59	Establish a Monitoring Forum (MF) consisting of representatives from the local community, local police, local farming community and the contractor prior to the commencement of the construction phase	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power	
59	Develop a Code of Conduct to cover the activities of construction workers. Ensure that all workers are informed at the outset of the construction phase of the conditions contained on the Code of Conduct. Construction workers should attend a brief session before they commence activities. The aim of the briefing session is to inform them of the rules and regulations governing activities on the site as set out in the Code of Conduct.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power / contractors	
60	Ensure that construction workers who are found guilty of breaching the Code of Conduct are dismissed. All dismissals must be in accordance with South African labour legislation.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
60	On completion of the construction phase all construction workers must be transported back to their place of origin. The costs of transportation must be borne by the contractor.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
OBJECTIVE: To avoid and or minimise the potential impact of the activities during the construction on the safety of local communities and the potential loss of stock and damage to farm infrastructure								
61	The housing of construction workers on the site should be limited to security personnel			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power and contractors	
61	Compensate farmers / community members at full market related replacement cost for any losses, such as livestock, damage to infrastructure etc.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power	
OBJECTIVE: To avoid and or minimise the potential impact on current and future farming activities during the construction phase								

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
61	Minimise the footprint of the wind energy facility and the associated infrastructure.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power and contractors	
61	Allow farmers in the area to continue to use the site for grazing.			N/A	Could not be verified as the wind energy facility is operational.	N/A	EPC Contractor	
62	Compile and implement a rehabilitation plan to ensure rehabilitation of disturbed areas on completion of the construction phase.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power and Specialist	
OBJECTIVE: Noise control								
63	Establish a line of communication and notify all stakeholders and potentially sensitive receptors of the means of registering any issues, complaints or comments.	✓		1	It was confirmed during the interview with the Site Manager that no grievance mechanism is in place for the operation of the wind energy facility. However, all complaints are directed to Aurora Wind Power via email and dealt with accordingly and resolved. It was also confirmed that there is not complaints register being kept on site and updated.	A Grievance Mechanism Procedure is attached as Appendix B of the EMPr (rev 3). This procedure must be immediately implemented and a register created and updated as complaints are received and addressed.	Contractor's SHE Officer	
63	Notify potentially sensitive receptors about work to take place at least 2 days before the activity in the vicinity (within 500) of the potentially sensitive receptors is to start. The following information to be presented in writing: »Description of Activity to take place »Estimated duration of activity »Working hours »Contact details of responsible party	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor ECO	
63	Ensure that all construction equipment is maintained and fitted with the required noise abatement equipment.			N/A	Could not be verified as the wind energy facility is operational.	N/A	EPC Contractor	
63	The construction crew must abide by the local by-laws regarding noise, if any. In the absence of local noise by-laws the Noise Control Regulations for South Africa will apply.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
63	Where possible construction work should be undertaken during normal working hours (06H00 – 18H00), from Monday to Saturday. Should work be planned for after hours, all sensitive receptors within 1000m of the site must be informed of the extended working hours.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
63	A complaints register must be kept on site to record any community complaints.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
OBJECTIVE: Management of dust and emissions to air								
64	EPC Contractor to compile and implement a health and safety programme for the construction phase.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
64	Roads must be maintained to a manner that will ensure that dust from road or vehicle sources is not visibly excessive. Ensure that damage to roads is repaired on completion of construction phase.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
64	Dust abatement techniques must be used before and during surface clearing, excavation or blasting activities.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
64	Appropriate dust suppressant must be applied on all exposed areas and stockpiles as required to minimise/control airborne dust.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
64	All soil stockpiles must be covered to avoid fugitive dust.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractors	
64	Construction vehicles moving outside the construction site carrying material that can be wind-blown must be covered with tarpaulins.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
64	Speed of construction vehicles must be restricted, as defined by the ECO.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
65	Dust-generating activities or earthworks may need to be rescheduled or the frequency of application of dust control/suppressant increased during periods of high winds if visible dust is blowing toward nearby residences.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
65	Strictly control vibration pollution from compaction plant or excavation plant.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
65	Disturbed areas must be re-vegetated once construction is completed in an area.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
65	Vehicles and equipment must be maintained in a road-worthy condition at all times.	✓		3	Verified on site and as part of the interview with the Site Manager. It was confirmed by the site manager that Servicing and Maintenance schedules are kept in order and updated accordingly. All vehicles are under a maintenance plan. New vehicles are bought every 3-5 years. Only light vehicles are present on site.	N/A	Contractor	
65	If monitoring results or complaints indicate inadequate performance against the criteria indicated, then the source of the problem must be identified, and existing procedures or equipment modified to ensure the problem is rectified.	✓		1	It was confirmed during the interview with the Site Manager that no grievance mechanism is in place for the operation of the wind energy facility. However, all complaints are directed to Aurora Wind Power via email and dealt with accordingly and resolved. It was also confirmed that there is not complaints register being kept on site and updated.	A Grievance Mechanism Procedure is attached as Appendix B of the EMPr (rev 3). This procedure must be immediately implemented and a register created and updated as complaints are received and addressed.	Contractor	
OBJECTIVE: Protection of Flora and Fauna and Minimisation of development footprint and protection of vegetation, fauna, habitats and soil								
66	Areas to be cleared must be clearly marked on-site to eliminate the potential for unnecessary clearing. Before any clearing of vegetation takes place, protected plants must be rescued with the methods recommended in the Plant Rescue Plan (refer to Appendix G).			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor in consultation with Specialist	
67	The extent of clearing and disturbance to the native vegetation must be kept to a minimum so that impact on flora and fauna is restricted.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
67	Construction activities must be restricted to demarcated areas so that impact on flora and fauna is restricted.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
67	Unnecessary impacts on surrounding natural vegetation must be avoided. No off-road driving is permitted unless authorised by the ECO.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
67	Existing roads must be used as far as possible.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
67	All foundations and trenched areas must be backfilled with as much original material as possible.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
67	Roads must be aligned away from steep slopes and drainage lines as much as possible.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
67	A transport management Plan must be compiled and implemented by the EPC Contractor, particularly for the transport of turbine components and all large equipment.			N/A	Could not be verified as the wind energy facility is operational.	N/A	EPC Contractor	
67	A traffic management plan must be compiled and implemented by the EPC Contractor, and must address the site access roads to ensure that no hazards would result for the increased truck traffic and that the impact on traffic flow is minimised.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	
67	Avoid creating conditions in which alien plants may become established: »Keep disturbance of indigenous vegetation to a minimum »Rehabilitate disturbed areas as quickly as possible »Do not import soil from areas with alien plants		✓	0	Through site verification is was confirmed that alien plants have established on the site and within the site office area. It was confirmed by the Site Manager during the interview that no formal procedure is currently in place for the management of alien invasive species. It was however confirmed that roads and areas around turbines are cleared and that the site office area is cleared every 2 months.	Immediately compile and implement an appropriate Alien Invasive Management Plan. Affected landowners may need to be consulted to determine specific areas to be managed by the landowner(s)	Operator / Owner	
67	Establish an on-going monitoring programme to detect and quantify any alien species that may become established and identify the problem species (as per conservation of agricultural resources act)		✓	0	Through site verification is was confirmed that alien plants have established on the site and within the site office area. It was confirmed by the Site Manager during the interview that no formal procedure is currently in place for the management of alien invasive species. It was however confirmed that roads and areas around turbines are cleared and that the site office area is cleared every 2 months.	Immediately compile and implement an appropriate Alien Invasive Management Plan. Affected landowners may need to be consulted to determine specific areas to be managed by the landowner(s)	Operator / Owner	

Environmental Management Programme Requirements for Construction Phase								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
67	Immediately control any alien plants that become established using registered control methods		✓	0	Through site verification is was confirmed that alien plants have established on the site and within the site office area. It was confirmed by the Site Manager during the interview that no formal procedure is currently in place for the management of alien invasive species. It was however confirmed that roads and areas around turbines are cleared and that the site office area is cleared every 2 months.	Immediately compile and implement an appropriate Alien Invasive Management Plan. Affected landowners may need to be consulted to determine specific areas to be managed by the landowner(s)	Operator / Owner	
68	Avoid the unnecessary removal of vegetation for the distribution power line servitudes and limit access to the servitudes (during both construction and operational phases) along existing access roads as far as possible.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
68	A site rehabilitation programme has been developed and must be implemented (refer to Appendix G).			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor in consultation with Specialist	
68	Soil stockpiles should not be translocated from areas with alien plants into the mine area and within the mine area alien plants on stockpiles must be controlled so as to avoid the development of a soil seed bank of alien plants within the stock-piled soil.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor in consultation with the ECO	
OBJECTIVE: To avoid and or minimise the potential risk of increased veld fires during the construction phase								
69	Ensure that open fires on the site for cooking or heating are not allowed except in designated areas.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
69	Provide adequate fire fighting equipment onsite.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
69	Provide fire-fighting training to selected construction staff.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
69	Compensate farmers / community members at full market related replacement cost for any losses, such as livestock, damage to infrastructure etc.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
69	Ensure landowner is part of the local Fire Protection Agency and that appropriate communication channels are established to be implemented in the event of a fire.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power	
OBJECTIVE: Limit Damage to Watercourses								
70	Align underground cables and internal access roads along existing infrastructure as far as possible.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
70	For any new construction, cross watercourses perpendicularly to minimise disturbance footprints and ensure no surface and subsurface flow is restricted.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
70	Rehabilitate any disturbed areas as quickly as possible once construction is completed in an area (refer to the Rehabilitation Plan - Appendix G).			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
70	The EPC partner must compile and implement a stormwater management plan to control stormwater and runoff water for areas such as the workshop area. Refer to Appendix H for principles of stormwater management.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	
70	Water quality monitoring to take place on a regular basis where infrastructure is to be located close to watercourses.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor ECO	
70	Obtain a permit from DWA to impact on any wetland or water resource.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power	
OBJECTIVE: Control runoff and soil erosion								
72	Access roads to be carefully planned and constructed to minimise the impacted area and prevent unnecessary excavation, placement and compaction of soil.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
72	Signage must be placed along all construction roads to identify speed limits, travel restrictions, and other standard traffic control information.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
72	All cable trenches, etc. through sensitive areas should be excavated carefully in order to minimise damage to surrounding areas. The trenches must be checked on a daily basis for the presence of trapped animals. Any animals found must be removed in a safe manner, unharmed and placed in an area where the animal will be comfortable. If the ECO is unable to assist in the movement of the endangered species ensure a member of nature conservation assists with the translocation.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
72	Disturbance of vegetation and topsoil must be kept to a practical minimum.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
72	No unauthorised off road driving will be allowed, to prevent sensitive vegetation being destroyed.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
73	Erosion features must be immediately stabilised with appropriate erosion control measures, if they develop such as reno matrices, gabions and silt fences.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
73	Where access roads cross natural drainage lines, culverts must be designed to allow free flow. Regular maintenance must be carried out.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
73	Stockpile topsoil must be re-used in rehabilitation phase. Maintain stockpile shape and protect from erosion. All stockpiles will be positioned away from drainage lines. Limit the height of stockpiles as far as possible to reduce compaction.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
73	Rehabilitate any disturbed areas immediately after construction in that area is complete in order to stabilise landscapes.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
73	All vehicles on site must be appropriate to access the site. No off road driving is permitted unless authorised by the ECO.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	EPC Contractor	
73	Any stockpiles must be protected against wind erosion (e.g. surrounded by shadecloth fences or damped down on a regular basis).	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
73	Use silt traps / bunds to trap sediment wherever possible and revegetate affected areas as soon as is practical.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
73	Vehicular traffic must be controlled during construction, confining access and roadways, where possible, to proposed or existing road alignments.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
73	All construction vehicles must avoid travelling on public roads during peak hours, as far as possible.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
73	Access routes to the site to be approved by the ECO.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	ECO	

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
73	Internal access roads should be kept to a minimum. Use existing roads wherever possible.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
73	Movement of vehicles on-site is to be on approved and formalised access roads only, which shall be adequately maintained throughout construction. Where temporary tracks are required (e.g. for use by crawler crane) these are to be ripped and rehabilitated as soon use of the track is no longer required.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
74	Control depth of excavations and stability of cut faces/sidewalls.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Owner' Engineer / Contractor	
OBJECTIVE: Protection of Fossil Resources								
75	Short workshop to train ECO in recognition, recording and safeguarding of relevant fossil heritage.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Professional palaeontologist	
75	Recording and judicious sampling of representative as well as any exceptional fossil material from the development footprint.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Professional palaeontologist assisted by the ECO	
75	Curation of fossil specimens at an approved repository (e.g. museum) & final technical report on paleontological heritage within study area.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Professional palaeontologist	
75	Response by personnel in the event of a bone cluster find •Action 1: Immediately stop excavation in the vicinity of the potential material. Mark (flag) the position and also spoil that may contain fossils. •Action 2: Inform the site foreman and the ECO. •Action 3: ECO to inform the developer, the developer contacts the standby archaeologist and/or palaeontologist. ECO to describe the occurrence and provide images as soon as possible by email.			N/A	Could not be verified as the wind energy facility is operational.	N/A	On-site personnel	

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
76	Response by Palaeontologist in the event of a bone cluster find: The palaeontologist will assess the information and liaise with the developer and the ECO and a suitable response will be established. It is likely that a Field Assessment by the palaeontologist will be carried out as soon as possible. It will probably be feasible to "leapfrog" the find and continue the excavation farther along, or proceed to the next excavation, so that the work schedule is minimally disrupted. The response time/scheduling of the Field Assessment is to be decided in consultation with developer/owner and the ECO. The field assessment could have the following outcomes: •If a human burial, the appropriate authority (Heritage Western Cape or SAHRA) is to be contacted. The find must be evaluated by a human burial specialist to decide if Rescue Excavation is feasible, or if it is a Major Find. •If the fossils are in an archaeological context, an archaeologist must be contacted to evaluate the site and decide if Rescue Excavation is feasible, or if it is a Major Find. »If the fossils are in a palaeontological context, the palaeontologist must evaluate the site and decide if Rescue Excavation is feasible, or if it is a Major Find.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Palaeontologist / Archaeologist	
OBJECTIVE: Protection of sites of heritage value								
77	Areas required to be cleared during construction must be clearly marked in the field to avoid unnecessary disturbance of adjacent areas (which will not be surveyed in detail by a heritage specialist).			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor in consultation with Specialist	
77	Built environment. Buildings identified as being of heritage value can be reutilised but without changing too much. Respect old structures, no matter how humble. Inventories building fittings (video). Consult with heritage consultant regarding major changes to buildings and environs.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power in consultation with Specialist	
78	If a heritage object is found, work in that area must be stopped immediately, and appropriate specialists brought in to assess to site, notify the administering authority of the item/site, and undertake due/required processes.	✓		3	Through the interview with the Site Manager it was confirmed that no heritage objects were found.	N/A	Aurora Wind Power / contractor in consultation with Specialist	
78	Apply for sampling permits from Heritage Western Cape for work on any archaeological sites identified as needing intervention – in other words any archaeological site that will be affected by the access road, crane track, laydown areas, turbine bases and cable trenches.	✓		3	Through the interview with the Site Manager it was confirmed that no heritage objects were found.	N/A	Aurora Wind Power	
OBJECTIVE: Minimisation of visual impacts associated with construction								
79	Adopt responsible construction practices aimed at containing the construction activities to specifically demarcated areas thereby limiting the removal of natural vegetation to the minimum.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
79	Minimise areas of surface disturbance, control erosion using dust suppression techniques and restoring exposed slopes as closely as possible to their original contour and vegetation.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
79	Limit access to the construction sites along existing access roads.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	

Environmental Management Programme Requirements for Construction Phase								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
79	The general appearance of construction activities, construction equipment camps and lay-down areas will be maintained by means of the timely removal of rubble and disused construction materials.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
79	Construction activities must be restricted to daylight hours (as far as possible) in order to negate or reduce the visual impacts associated with lighting. In the event that night-time construction activities are required to be undertaken, lighting will be placed in such a manner as to limit impacts on the surrounding areas and reduce any impact on bats or avifauna.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
79	Rehabilitate all disturbed areas, including cut and fill slopes to acceptable visual standards.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
79	No commercial messaging, advertising and graffiti must be displayed on turbines	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015). Compliance was also confirmed during the Section 54 audit undertaken on 27 November 2019.	N/A	Aurora Wind Power Contractors	
OBJECTIVE: Traffic management and transportation of equipment and materials to site (Traffic Management and Transportation Plan)								
81	All relevant permits for abnormal loads must be applied for from the relevant authority.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
81	A designated access to the proposed site must be created to ensure safe entry and exit.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
81	No deviation from approved access routes within the site must be allowed.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
81	Appropriate road management strategies must be implemented on external and internal roads with all employees and contractors required to abide by standard road and safety procedures.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	

Environmental Management Programme Requirements for Construction Phase								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
81	Times for arrival and departure of heavy vehicles must be co-ordinated to minimise congestion.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
81	Any traffic delays as a result of construction traffic must be co-ordinated with the appropriate authorities.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
81	The movement of all vehicles within the site must be on designated roadways.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
81	Signage must be established at appropriate points warning of turning traffic and the construction site (all signage to be in accordance with prescribed standards).	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
81	Appropriate maintenance of all vehicles must be ensured.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
81	All vehicles travelling on public roads must adhere to the specified speed limits.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
81	Keep hard road surfaces as narrow as possible.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
81	Prevent damage to roads by construction vehicles	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
81	Signs must be placed along construction roads to identify speed limits, travel restrictions and other standard traffic control information.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
OBJECTIVE: Appropriate handling and storage of chemicals, hazardous substances and waste								

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
82	Spill kits must be made available on-site for the clean-up of spills and leaks of contaminants.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015). It was also confirmed that spill kits are available for the operational facility through site verification as part of the Section 54 audit.	N/A	Contractor	
83	Corrective action must be undertaken immediately if a complaint is made, or potential/actual leak or spill of polluting substance identified. This includes stopping the contaminant from further escaping, cleaning up the affected environment as much as practically possible and implementing preventive measures.	✓		3	It was confirmed by the Site Manager during the interview that a spills response procedure is in place and the documentation was verified.	N/A	Contractor	
83	In the event of a major spill or leak of contaminants, the relevant administering authority must be immediately notified as per the notification of emergencies/incidents.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015). It was confirmed by the Site Manager during the interview that a spills response procedure is in place and the documentation was verified.	N/A	Contractor	
83	Spilled cement must be cleaned up as soon as possible and disposed of at a suitably licensed waste disposal site.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
83	Soil contaminated/ polluted as a result of a major spill must be removed from the site and disposed of at a licensed hazardous waste disposal facility. Soils contaminated/ polluted through minor spills can be treated on site provided they are contained and have not penetrated the soil surface.	✓		3	It was confirmed by the Site Manager during the interview that a spills response procedure is in place and the documentation was verified.	N/A	Contractor	
83	Routine servicing and maintenance of vehicles must not to take place on-site (except for emergency situations or large cranes which cannot be moved off-site). If repairs of vehicles must take place, an appropriate drip tray must be used to contain any fuel or oils.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
83	All stored fuels to be maintained within a bund and on a sealed surface.	✓		3	Storage of fuels within a bund and sealed surface was verified on site.	N/A	Contractor	
83	Fuel storage areas must be inspected regularly to ensure bund stability, integrity and function.	✓		3	It was confirmed by the Site Manager during the interview that the fuel storage areas are inspected as part of the safety inspections undertaken for the wind energy facility.	N/A	Contractor	
83	When vehicles and machinery are being refuelled ensure a drip tray is placed under the pipe to ensure no spills contaminate the surrounding area.			N/A	No refuelling of vehicles is being undertaken for the operational wind energy facility	N/A	Contractor	
83	Construction machinery must be stored in an appropriately sealed area.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
83	Oily water from bunds at the substations must be removed from site by licensed contractors.	✓		3	It was confirmed by the Site Manager during the interview that oily water is removed and stored in the containment area. Waste manifest confirms disposal by contractor.	N/A	Contractor	
83	The storage of flammable and combustible liquids such as oils will be in designated areas which are appropriately bunded, and stored in compliance with MSDS files.	✓		2	Verification on site of the storage of flammable and combustible liquids within a designated storage areas.	MSDS files must be kept in storage area and cover all liquids being stored.	Contractor	
83	Any storage and disposal permits/approvals which may be required must be obtained, and the conditions attached to such permits and approvals will be compiled with.	✓		3	A waste manifest is kept on site with slips of disposal of hazardous waste at licensed facilities. No other waste permits are applicable	N/A	Contractor	
83	Transport of all hazardous substances must be in accordance with the relevant legislation and regulations.	✓		3	A waste manifest is kept on site with slips of disposal of hazardous waste as licensed facilities. Disposal is undertaken by Verda.	N/A	Contractor	
84	Construction contractors must provide specific detailed waste management plans to deal with all waste streams.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	

Environmental Management Programme Requirements for Construction Phase								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
84	An integrated waste management approach must be implemented based on waste minimisation (includes waste recycling, re-using and reduction).	✓		3	Separate waste bins are kept on site and waste is sorted in separate bags. The waste is further sorted at the sorting facility of the local municipality. Bags are placed in a skip and disposed of once skip has reached a certain capacity (as and when required)	N/A	Contractor	
84	Specific areas must be designated on-site for the temporary management of various waste streams, i.e. general refuse, construction waste (wood and metal scrap) and contaminated waste. Location of such areas must seek to minimise the potential for impact on the surrounding environment, including prevention of contaminated runoff, seepage and vermin control.	✓		3	Separate waste bins are kept on site in a designated area and waste is sorted in separate bags. The waste is further sorted at the sorting facility of the local municipality. Bags are placed in a skip and disposed of once skip has reached a certain capacity (as and when required)	N/A	Contractor	
84	Where possible, construction and general wastes on-site must be reused or recycled. Bins and skips must be available on-site for collection, separation and storage of waste streams (such as wood, metals, general refuse etc.). All bins or skips must be secure from animals and closed to ensure no waste is distributed by natural elements or the fauna in the area.	✓		3	Separate waste bins are kept on site in a designated area and waste is sorted in separate bags. The waste is further sorted at the sorting facility of the local municipality. Bags are placed in a skip and disposed of once skip has reached a certain capacity (as and when required)	N/A	Contractor	
84	Disposal of waste must be in accordance with relevant legislative requirements, including the use of licensed contractors.	✓		3	A waste manifest is kept on site with slips of disposal of hazardous waste as licensed facilities. Disposal is undertaken by Verda.	N/A	Contractor	
84	Hydrocarbon waste must be contained and stored in sealed containers within an appropriately bunded area.	✓		3	Storage of waste within a bund and sealed surface was verified on site.	N/A	Contractor	
84	Waste and surplus dangerous goods must be kept to a minimum and must be transported by approved waste transporters to sites designated for their disposal.	✓		3	A waste manifest is kept on site with slips of disposal of hazardous waste as licensed facilities. Disposal is undertaken by Verda.	N/A	Contractor	

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
84	Documentation (waste manifest) must be maintained detailing the quantity, nature and fate of any regulated waste. Waste disposal records must be available for review at any time.	✓		3	A waste manifest is kept on site with slips of disposal of hazardous waste as licensed facilities. Other waste streams are stored in bags in a skips and removed by a contractor to a licensed facility.	N/A	Contractor	
84	A waste register must be kept on site classifying all the waste according to the waste classification regulations and submitted to the registered waste removal company.	✓		1	A waste register is available however this is not being used or updated.	Update and make use of the waste register available on-site. To be undertaken immediately.	Contractor	
84	All waste must be disposed of at a registered waste facility and all hazardous waste must be disposed of at a registered hazardous waste dump facility.	✓		3	A waste manifest is kept on site with slips of disposal of hazardous waste as licensed facilities. Other waste streams are stored in bags in a skips and removed by a contractor to a licensed facility.	N/A	Contractor	
84	An incident/complaints register must be established and maintained on-site.			N/A	Could not be verified as the wind energy facility is operational and the ECO is no longer involved in the wind energy facility.	N/A	ECO	
85	Upon the completion of construction, the area must be cleared of potentially polluting materials.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
OBJECTIVE: Ensure disciplined conduct of on-site contractors and workers								
86	Environmental awareness training must be undertaken for all site personnel on a regular basis, at the approval and guidance of the ECO.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor and ECO	
86	The terms of this EMP and the Environmental Authorisation (once issued) will be included in all tender documentation and Contractors contracts.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power	
86	An ECO must be permanently on site throughout the road construction, cable laying, and turbine foundation excavation periods, and at other times should visit the site at least once a week.			N/A	Could not be verified as the wind energy facility is operational.	N/A	ECO	
86	Contractors must use chemical toilets/ablution facilities situated at designated areas of the site; no abluting will be permitted outside the designated area. These facilities must be regularly serviced by appropriate contractors. A minimum of one toilet shall be provided per 15 persons at each working area such as the Contractor's camp.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
86	Cooking/meals must take place in a designated area; no firewood or kindling may be gathered from the site or surrounds.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
86	All litter must be deposited in a clearly marked, closed, animal-proof disposal bin in the construction area; particular attention needs to be paid to food waste.	✓		3	Separate waste bins are kept on site in a designated area and waste is sorted in separate bags. Waste streams are stored in separate bags and placed in a skip which is covered by netting.	N/A	Contractor	
86	No one other than the ECO or personnel authorised by the ECO must disturb flora or fauna outside of the demarcated construction area/s.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
86	Contractors appointed by Aurora Wind Power must ensure that all workers are informed at the outset of the construction phase of the conditions contained on the Code of Conduct, specifically consequences of stock theft and trespassing on adjacent farms.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	

	Environmental Management Programme Requirements for Construction Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
86	Provide opportunities for workers to go home over weekends. The cost of transporting workers home over weekends and back to the site should be borne by the contractors.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
86	On completion of the construction phase all construction workers must be transported back to their place of origin. The costs of transportation must be borne by the contractor	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
OBJECTIVE: Search and Rescue of all translocatable indigenous plants from development footprints prior to any development, and maintenance of these in a nursery (on site) for use in rehabilitation in disturbed areas on completion of all construction.								
87	Search and Rescue to be completed in all areas of natural vegetation prior to any construction related activities in these areas. Generally that can be considered for rescue are all bulbs and tuberous species (including Haemanthus, Brunsvigia, Babiana, Trachyandra, Albuca, Veltheimia, Arctopus, etc.), plus selected specimens of succulents such as Ruschia and Lampranthus species. Material to be bagged up or stored in suitable conditions in an on-site greenhouse (with irrigation where needed); to be replanted in areas requiring rehabilitation following cessation of all construction related disturbance in particular area.	✓		3	Verified on site and as part of the interview with the Site Manager. It was confirmed that no plants were rescued and transplanted by the site Manager. Permits were obtained for the removal of the plants as confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor in consultation with Specialist	
OBJECTIVE: To ensure all construction activities/practices/procedures are undertaken with the appropriate level of environmental awareness to minimise environmental risk, in line with the specifications of the EMP								
88	The Contractor will be required to describe how specified requirements will be achieved through the submission of written Method Statements to the Site Manager (and ECO).			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor	
OBJECTIVE: To ensure all construction personnel have the appropriate level of environmental awareness and competence to ensure continued environmental due diligence and on-going minimisation of environmental harm.								
91	Environmental Awareness Training must be undertaken by the EPC Contractor and must take the form of an on-site talk and demonstration by the ECO before the commencement of site establishment and construction on site. The education/awareness programme should be aimed at all levels of management and construction workers within the contractor team. A record of attendance of this training must be maintained by the ECO on site.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor / ECO	
92	Environmental induction training must be presented to all persons who are to work on the site – be it for short or long durations; Contractor's or Engineer's staff; administrative or site staff; sub-contractors or visitors to site. This induction training should be undertaken by the Contractor's SHE Officer and should include discussing the developer's environmental policy and values, the function of the EMP and Contract Specifications and the importance and reasons for compliance to these. The induction training must highlight overall do's and don'ts on site and clarify the repercussions of not complying with these. The non-conformance reporting system must be explained during the induction as well. Opportunity for questions and clarifications must form part of this training. A record of attendance of this training must be maintained by the SHE Officer on site.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor / ECO	

Environmental Management Programme Requirements for Construction Phase								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
92	Toolbox talks should be held on a scheduled and regular basis (at least twice a month) where foremen, environmental and safety representatives of different components of the Works and sub-consultants hold talks relating to environmental practices and safety awareness on site. These talks should also include discussions on possible common incidents occurring on site and the prevention of reoccurrence thereof. Records of attendance and the awareness talk subject must be kept on file.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor / ECO	
OBJECTIVE: To monitor the performance of the control strategies employed against environmental objectives and standards								
93	All supervisory staff including Foremen, Resident Engineers, and the ECO must be provided the means to be able to submit non-conformance reports to the Site Manager. Non-conformance reports will describe, in detail, the cause, nature and effects of any environmental non-conformance by the Contractor. Records of penalties imposed may be required by the relevant authority within 48 (forty eight) hours. The non-conformance report will be updated on completion of the corrective measures indicated on the finding sheet. The report must indicate that the remediation measures have been implemented timeously and that the non-conformance can be closed-out to the satisfaction of the Site Manager and ECO.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor / ECO	
93	A final environmental audit report must be compiled by an independent external auditor and be submitted to DEA upon completion of the construction and rehabilitation activities (within 30 days of completion of the construction phase (i.e. within 30 days of site handover) and within 30 days of completion of rehabilitation activities). This report must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the environmental authorisation conditions and the requirements of the EMP. Further details of the audit report are contained in Condition 29 – 30.9 of the Environmental Authorisation (March 2012).	✓		3	Final Construction Environmental Audit (June 2015).	N/A	Aurora Wind Power / external auditor	
				99				

TOTAL SCORE	281
AS AVERAGE	2.8
AS PERCENTAGE	95

	ENVIRONMENTAL MANAGEMENT REPORTING CHECKLIST FOR THE WEST COAST ONE WIND ENERGY FACILITY ON A SITE NEAR VREDENBURG, WESTERN CAPE: PERIOD: November 2019 SITE: WEST COAST ONE WEF COMPLETED BY: Lisa Opperman							
	Environmental Management Programme Requirements for Rehabilitation							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
OBJECTIVE: To ensure appropriate rehabilitation of disturbed areas following the execution of the works, such that residual environmental impacts are remediated or curtailed								
96	All temporary facilities, equipment and waste materials must be removed from site as soon as practically possible after construction is complete	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
96	All temporary fencing and danger tape must be removed once the construction phase has been completed.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor	
96	Necessary drainage works and anti-erosion measures must be installed, where required, to minimise loss of topsoil and control erosion.	✓		3	Verified on site and as part of the interview with the Site Manager. It was confirmed that yearly maintenance is undertaken and that the maintenance ended June. Maintenance is undertaken during the raining season. Confirmation provided by site Manager of a Maintenance manual for Vdrains in areas with runoff.	N/A	Contractor	
96	A rehabilitation plan should be drawn up that specifies the rehabilitation process and should be approved by the ECO.	✓		3	Savannah Environmental was appointed to undertaken the ECO functions associated with the construction phase of the development. Compliance to this condition was confirmed in the checklist compiled as part of the Final Construction Environmental Audit (June 2015).	N/A	Contractor and ECO	
96	Disturbed areas must be rehabilitated/re-vegetated with appropriate natural vegetation and/or local seed mix (refer to Appendix G).			N/A	Could not be verified as the wind energy facility is operational.	N/A	Contractor in consultation with rehabilitation specialist	
96	Re-vegetated areas may have to be protected from wind erosion and maintained until an acceptable plant cover has been achieved.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power in consultation with rehabilitation specialist	
96	Erosion control measures should be used in sensitive areas such as wetlands, steep slopes, hills and drainage lines is necessary.			N/A	Could not be verified as the wind energy facility is operational.	N/A	Aurora Wind Power in consultation with rehabilitation specialist	

Environmental Management Programme Requirements for Rehabilitation								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
96	On-going alien plant monitoring and removal must be undertaken on all areas of natural vegetation on an annual basis.		✓	0	Through site verification is was confirmed that alien plants have established on the site and within the site office area. It was confirmed by the Site Manager during the interview that no formal procedure is currently in place for the management of alien invasive species. It was however confirmed that roads and areas around turbines are cleared and that the site office area is cleared every 2 months.	Immediately compile and implement an appropriate Alien Invasive Management Plan. Affected landowners may need to be consulted to determine specific areas to be managed by the landowner(s)	Operator / Owner	
				5				

TOTAL SCORE	12
AS AVERAGE	2.4
AS PERCENTAGE	80

ENVIRONMENTAL MANAGEMENT REPORTING CHECKLIST FOR THE WEST COAST ONE WIND ENERGY FACILITY ON A SITE NEAR VREDENBURG, WESTERN CAPE:

PERIOD: November 2019
SITE: WEST COAST ONE WEF
COMPLETED BY: Lisa Opperman

savannah environmental

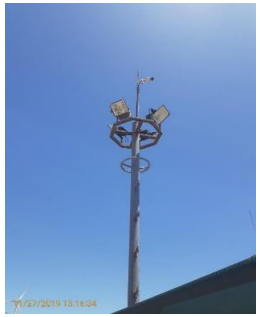
Environmental Management Programme Requirements for Operation Phase

EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
OBJECTIVE: Protection of vegetation								
20	Vehicle movements must be restricted to designated roadways	✓		**3**	Site verification confirmed that designated roadways are being used by the O&M operator. It could not be confirmed whether the affected landowners adhere to this condition	N/A	Aurora Wind Power and contractors	
21	Existing roads must be maintained to ensure limited erosion and impact on areas adjacent to roadways.	✓		**2**	Site verification confirmed maintenance of existing roads , as well as verbal confirmation by the site manager during the interview. Some erosion was present along sections of the steep slopes along the existing access roads.	Implement additional erosion measures on steep slopes along existing access roads where erosion occurs prior to the start of the next rain season.	Aurora Wind Power and contractors	
21	An on-going alien monitoring and eradication programme must be implemented, where necessary.		✓	0	Through site verification is was confirmed that alien plants have established on the site and within the site office area. It was confirmed by the Site Manager during the interview that no formal procedure is currently in place for the management of alien invasive species. It was however confirmed that roads and areas around turbines are cleared and that the site office area is cleared every 2 months.	Immediately compile and implement an appropriate Alien Invasive Management Plan. Affected landowners may need to be consulted to determine specific areas to be managed by the landowner(s)	Aurora Wind Power	
21	An independent environmental auditor (annual audits) or environmental/ SHE manager must be appointed during operation whose duty it will be to minimise impacts on surrounding sensitive habitats	✓		**3**	It was confirmed by the site Manager in the interview that Danie Brummer from Savannah Environmental has been appointed as the independent environmental auditor.	N/A	Aurora Wind Power	
OBJECTIVE: Maintenance of rehabilitated areas								

Environmental Management Programme Requirements for Operation Phase								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
21	Rehabilitation and alien plant removal should be monitored by the HSE Manager/Officer. Areas where previous rehabilitation efforts have failed should be identified and rectified by re-planting/seeding areas and monitoring them for regrowth. Areas which are prone to erosion (such as steep slopes) should be closely monitored during the rainy season and measures to stop erosion immediately implemented should these occur.	✓		2	Through site verification is was confirmed that alien plants have established on the site and within the site office area. It was confirmed by the Site Manager during the interview that no formal procedure is currently in place for the management of alien invasive species. It was however confirmed that roads and areas around turbines are cleared and that the site office area is cleared every 2 months.	Immediately compile and implement an appropriate Alien Invasive Management Plan. Affected landowners may need to be consulted to determine specific areas to be managed by the landowner(s)	Aurora Wind Power HSE Manager / Officer	
21	An independent environmental auditor (annual audits) or environmental/ SHE manager must be appointed during operation whose duty it will be to minimise impacts on surrounding sensitive habitats	✓		3	It was confirmed by the site Manager in the interview that Danie Brummer from Savannah Environmental has been appointed as the independent environmental auditor.	N/A	Aurora Wind Power	

Environmental Management Programme Requirements for Operation Phase								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
OBJECTIVE: Protection of avifauna and determine the impact of the operating Wind Energy Facility on priority bird species								
22	A site monitoring programme must be developed and implemented for surveying bird movements in relation to the wind energy facility and fully documenting all collision casualties.	✓		**3**	It was confirmed by the Site Manager during the interview that monitoring of avifauna is being undertaken and that daily carcass searches are undertaken. It was confirmed that Arcus is responsible for the monitoring and undertakes field surveys 4 times a year.	N/A	Aurora Wind Power	
22	Appoint advising scientist and agency to conduct post-construction monitoring.	✓		**3**	It was confirmed by the site Manager in the interview that Arcus have been appointed to conduct post-construction monitoring	N/A	Aurora Wind Power	
22	An ornithologist must be designated to provide input on monitoring and mitigation of bird collisions with the turbine blades. Mitigation of potential collision impacts in the north-east of the proposed development area, around the fly-way clearly identified by both the pre-construction diurnal and nocturnal monitoring is essential. All bird collisions to be recorded and reported to a designated ornithologist.	✓		**3**	It was confirmed by the site Manager in the interview that Arcus have been appointed to conduct post-construction monitoring and provide mitigation	N/A	Aurora Wind Power Plant Environmental / SHE Manager	
22	Implement appropriate mitigation as and when significant changes are recorded in the number, distribution or breeding behaviour of any of the priority species listed in the pre-construction bird monitoring report, or when collision or electrocution mortalities are recorded for any of the priority species listed in the pre-construction bird monitoring report.			**N/A**	Could not be confirmed.	N/A	Aurora Wind Power	
23	The substation site must be monitored for any evidence of electrocution. An ornithologist must be contacted for the implementation of appropriate mitigation should evidence of electrocution be found.	✓		**3**	It was confirmed by the Site Manager in the interview that no incidents have been recorded and that Arcus have been appointed to conduct post-construction monitoring and provide appropriate mitigation	N/A	Aurora Wind Power	
OBJECTIVE: Protection of terrestrial fauna and habitats								
23	A bat monitoring program must be implemented.	✓		**3**	It was confirmed by the Site Manager during the interview that monitoring is being undertaken and that the microphones for bats are still present on the site	N/A	Aurora Wind Power	
23	Vehicle movements restricted to designated roadways	✓		**3**	Site verification confirmed that designated roadways are being used by the O&M operator. It could not be confirmed whether the affected landowners adhere to this condition	N/A	Aurora Wind Power and contractors	

	Environmental Management Programme Requirements for Operation Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
23	An independent environmental auditor (annual audits) or environmental/ SHE manager must be appointed during operation whose duty it will be to minimise impacts on surrounding sensitive habitats	✓		3	It was confirmed by the site Manager in the interview that Danie Brummer from Savannah Environmental has been appointed as the independent environmental auditor.	N/A	Aurora Wind Power	
24	Adherence to reduced vehicle speeds (as prescribed by the environmental manager) by any vehicles moving on the site to reduce potential for direct mortalities.	✓		3	Site verification confirmed signage at the access point in terms of the relevant speed limit to be adhered to (i.e. 40km/hr). This is information is also included on the security form when entering the facility.	N/A	Aurora Wind Power and contractors	
OBJECTIVE: Minimise soil degradation and erosion (Erosion Management Plan)								
25	Rehabilitate disturbance areas should the previous attempt be unsuccessful.	✓		3	It was confirmed by the site Manager in the interview that there are no disturbed areas present where previous attempts were unsuccessful. It was confirmed that where disturbed areas are present these are associated with the cultivated areas utilised by the affected landowners.	N/A	Aurora Wind Power	
25	Maintain erosion control measures implemented during the construction phase (i.e. run-off attenuation on slopes (sand bags, logs), silt fences, storm water catch-pits, and shade nets).	✓		2	Some erosion was present along sections of the steep slopes along the existing access roads.	Implement additional erosion measures on steep slopes along existing access roads where erosion occurs prior to the start of the next rain season.	Aurora Wind Power and contractors	
25	Develop and implement an appropriate stormwater management plan for the operational phase of the facility	✓		3	Compliance confirmed through confirmation of West Coast One Storm Water Management Plan: Operations	N/A	Aurora Wind Power	
OBJECTIVE: Minimisation of visual impacts								
26	Aviation warning lights must be mounted on turbine hub or such measures required by the Civil Aviation Authority. Indications are that the facility may not be required to fit a light to each turbine, but rather place synchronous flashing lights on the turbines representing the outer perimeter of the facility.	✓		3	Compliance confirmed through site verification	N/A	EPC Contractor	

Environmental Management Programme Requirements for Operation Phase								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
26	Ensure that proper planning is undertaken regarding the placement of lighting structures for the substation and that light fixtures only illuminate areas inside the substation site.	✓		**3**	Compliance confirmed through site verification	N/A	EPC Contractor	
26	Maintain the general appearance of the facility in an aesthetically pleasing way.	✓		**3**	Compliance confirmed through site verification. No un-neat conditions observed	N/A	Aurora Wind Power and contractors	
26	Undertake regular maintenance of light fixtures.	✓		**3**	It was confirmed by the site Manager in the interview that regular maintenance of light fixtures is undertaken	N/A	Aurora Wind Power and contractors	
26	Limit access to the wind energy facility site and substation along existing access roads	✓		**3**	Compliance confirmed through site verification. It was confirmed by the Site Manager that there are three(3) access control points to the wind energy facility.	N/A	Aurora Wind Power	
OBJECTIVE: To ensure the implementation of an appropriate fire management plan during the operation phase								
27	Provide adequate fire-fighting equipment onsite.	✓		**3**	Compliance confirmed through site verification. It was also confirmed via site verification that equipment is serviced regularly. The timeframe indicated in EMPr rev3 for this condition is incorrect and does not refer to the operation phase - this will need to be updated accordingly.	N/A	Contractor	
27	Provide fire-fighting training to selected operation and maintenance staff.	✓		**3**	Compliance confirmed through certificates for fire-fighting training. The timeframe indicated in EMPr rev3 for this condition is incorrect and does not refer to the operation phase - this will need to be updated accordingly.	N/A	Contractor	

Environmental Management Programme Requirements for Operation Phase								
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
27	Compensate farmers / community members at full market related replacement cost for any losses, such as livestock, damage to infrastructure etc.			N/A	Could not be verified as no incidents of loss has occurred, as confirmed in the interview with the Site Manager	N/A	Aurora Wind Power	
27	Ensure landowner is part of the local Fire Protection Agency and that appropriate communication channels are established to be implemented in the event of a fire.	✓		3	It was confirmed in the interview by the Site Manager that the fire brigade is used for fire emergencies. It was also confirmed that fire simulations are undertaken to ensure clarity of the process in such a situation. A contact list of landowners is readily available in the site office. The timeframe indicated in EMPr rev3 for this condition is incorrect and does not refer to the operation phase - this will need to be updated accordingly.	N/A	Aurora Wind Power	
OBJECTIVE: Appropriate handling and management of hazardous substances and waste								
28	Hazardous substances must be stored in sealed containers within a clearly demarcated designated area.	✓		3	Storage of hazardous substances, in sealed containers, within a bund and sealed surface marked storage area was verified on site.	N/A	Aurora Wind Power and contractors	
28	Storage areas for hazardous substances must be appropriately sealed and bunded	✓		3	Storage of hazardous substances, in sealed containers, within a bund and sealed surface marked storage area was verified on site.	N/A	Aurora Wind Power and contractors	
28	All structures and/or components replaced during maintenance activities must be appropriately disposed of at an appropriately licensed waste disposal site or sold to a recycling merchant for recycling.	✓		3	Separate waste bins are kept on site in a designated area and waste is sorted in separate bags. The waste is further sorted at the sorting facility of the local municipality. Bags are placed in a skip and disposed of once skip has reached a certain capacity (as and when required). All waste is disposed of at a licensed waste disposal site as per the waste manifest and slips provided.	N/A	Aurora Wind Power and contractors	

	Environmental Management Programme Requirements for Operation Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
28	Care must be taken to ensure that spillage of oils and other hazardous substances are limited during maintenance. Handling of these materials should take place within an appropriately sealed and bunded area. Should any accidental spillage take place, it will be cleaned up accordingly and associated waste disposed at a licenced facility.	✓		3	It was confirmed by the Site Manager during the interview that a spills response procedure is in place and the documentation was verified.	N/A	Aurora Wind Power and contractors	
28	Spill kits must be available for clean-up of hazardous spills.	✓		3	It was confirmed that spill kits are available for the operational facility through site verification as part of the Section 54 audit.	N/A	Aurora Wind Power and contractors	
28	Waste handling, collection and disposal operations must be managed and controlled by a waste management contractor.	✓		3	A waste manifest is kept on site with slips of disposal of hazardous waste at licensed facilities. Disposal is undertaken by Verda. Separate waste bins are kept on site and waste is sorted in separate bags. The waste is further sorted at the sorting facility of the local municipality. Bags are placed in a skip and disposed of once skip has reached a certain capacity (as and when required)	N/A	Aurora Wind Power and contractors	
28	Used oils and chemicals: »Appropriate disposal must be arranged with a licensed facility in consultation with the administering authority. »Waste must be stored and handled according to the relevant legislation and regulations.	✓		3	Storage of hazardous substances, in sealed containers, within a bund and sealed surface marked storage area was verified on site. A waste manifest is kept on site with slips of disposal of hazardous waste at licensed facilities. Disposal is undertaken by Verda.	N/A	Aurora Wind Power and contractors	
28	General waste must be recycled where possible or disposed of at an appropriately licensed landfill.	✓		3	Separate waste bins are kept on site and waste is sorted in separate bags. The waste is further sorted at the sorting facility of the local municipality. Bags are placed in a skip and disposed of once skip has reached a certain capacity (as and when required)	N/A	Aurora Wind Power and contractors	

	Environmental Management Programme Requirements for Operation Phase							
EMPr location (page)	Condition	Compliance		Score	Comment	If no, corrective action	Responsibility	Photographic Evidence
		Yes	No					
28	Hazardous waste (including hydrocarbons) and general waste must be stored and disposed of separately.	✓		3	Storage of hazardous substances, in sealed containers, within a bund and sealed surface marked storage area was verified on site.	N/A	Aurora Wind Power and contractors	
28	Disposal of waste must be in accordance with relevant legislative requirements, including the use of licensed contractors.	✓		3	Storage of hazardous substances, in sealed containers, within a bund and sealed surface marked storage area was verified on site. A waste manifest is kept on site with slips of disposal of hazardous waste at licensed facilities. Disposal is undertaken by Verda.	N/A	Aurora Wind Power and contractors	
OBJECTIVE: Noise control								
29	Define the ambient sound levels over a 24 hour period before the operational phase begins inside and outside of the dwellings of at least 3 Potentially Sensitive Receptors	✓		3	It was confirmed in the interview by the Site Manager and verified through documentation that ambient sound levels were measures prior to operation.	N/A	Aurora Wind Power	
29	Design and implement a noise monitoring programme. Based on the results of noise monitoring undertaken, continuous monitoring is therefore not considered to be necessary. Noise monitoring should be undertaken if complaints are received.			N/A	It was confirmed in the interview by the Site Manager that no complaints relating to noise have been received.	N/A	Aurora Wind Power Specialist	
29	Add additional noise monitoring points at any complainants that registered a noise complaint relating to the operation of the wind energy facility.			N/A	It was confirmed in the interview by the Site Manager that no complaints relating to noise have been received.	N/A	Acoustical Consultant / Approved Noise Inspection Authority	
				36				

TOTAL SCORE	102
AS AVERAGE	2.8
AS PERCENTAGE	94

APPENDIX C:
LOCATION AND PROOF OF SITE NOTICE

PROOF OF SITE NOTICE PLACEMENT (Date placed: 27 November 2019)

Figure 1: Photographic proof of the site notice placed along the boundary of the project on 27 November 2019.

Location of Placement: 32°51'1.04"S ; 18° 1'33.90"E

APPENDIX D:
NOTIFICATION TO REGISTERED I&APS OF SUBMISSION OF THE AUDIT REPORT

Savannah Environmental (Pty) Ltd | Directors: KM Jodas, J Thomas, M Matsabu
Company Reg No.: 2006/000127/07
VAT Reg No.: 4780226736

06 December 2019

Dear Registered Interested and Affected Party,

NOTICE OF AN EXTERNAL COMPLIANCE AUDIT (SECTION 54) AND PUBLIC PARTICIPATION PROCESS:
WEST COAST ONE WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE, VREDENBURG, WESTERN CAPE PROVINCE
(DEA Ref.: 12/12/20/1581)

Notification of Submission of Section 54(A)(3) Audit Report to the Competent Authority

As a registered Interested and Affected Party for the West Coast One Wind Energy facility, please be advised that in terms of Section 54(a)(3) of the EIA regulations (GNR 326, 7 April 2018), Savannah Environmental (Pty) Ltd has undertaken an external environmental compliance audit and prepared an external environmental compliance audit report assessing Aurora Wind Power compliance with the Environmental Management Programme (EMPr) applicable to the project.

West Coast One Wind Energy Facility, located within the Saldanha Bay Local Municipality, comprises 47 wind turbine generators with a total capacity of 91.18MW, a substation with a 33kV/132kV high voltage yard footprint, a 132kV overhead power line and associated infrastructure. Construction of the West Coast One Wind Energy Facility commenced in June 2013 and commercial operation date (COD) was achieved in June 2015. The wind energy facility is currently in operation.

The West Coast One Wind Energy Facility occupies the following properties:

- Portions 4 and 5 of Farm 95 (Zoutkasfontein); and
- Portions 1, 3, 4, 5, 6 and 9 of Farm 46 (Frans Vlei).

In terms of Section 54(A)(3) of the EIA Regulations 2014 of GNR 326, an Independent External Compliance Audit ("S54 Audit") is required to verify compliance towards the Environmental Management Programme (EMPr) for the project. This letter serves to notify all potential and registered interested and affected parties, including organs of state with applicable jurisdiction as well as the competent authority, of the submission of the external compliance audit report to the competent authority. This report is available at https://www.savannahsa.com/public-documents/other/ for 14 days from date of this notification.

Please direct any queries, information requests or comments to the DEA compliance directorate, at the following:

Department of Environmental Affairs (DEA) Legal Authorisations and Compliance Inspectorate

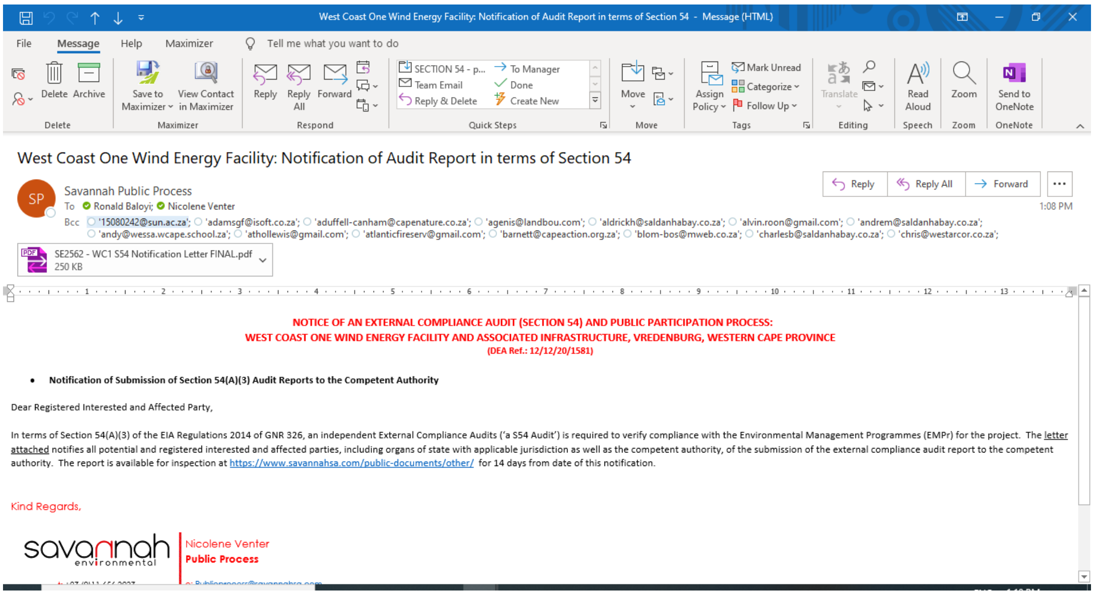
E-mail: compliance@environment.gov.za

Kind regards

Nicolene Venter
Public Participation and Social Consultant
Email: publicprocess@savannahsa.com

PROOF OF E-MAIL

West Coast One Wind Energy Facility: Notification Letter



West Coast One Wind Energy Facility: Notification of Audit Report in terms of Section 54

Savannah Public Process
To Ronald Baloyi; Nicolene Venter
1:08 PM
Bcc '15080242@sun.ac.za'; 'adamsgf@isoft.co.za'; 'aduffell-canham@capenature.co.za'; 'agenis@landbou.com'; 'aldrickh@saldanhabay.co.za'; 'alvin.roon@gmail.com'; 'andrem@saldanhabay.co.za'; 'andy@wessa.wcape.school.za'; 'athollewis@gmail.com'; 'atlanticfireserv@gmail.com'; 'barnett@capeaction.org.za'; 'blom-bos@mweb.co.za'; 'charlesb@saldanhabay.co.za'; 'chris@westarcor.co.za';

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(DEA Ref.: 12/12/20/1581)

- **Notification of Submission of Section 54(A)(3) Audit Reports to the Competent Authority**

Dear Registered Interested and Affected Party,

In terms of Section 54(A)(3) of the EIA Regulations 2014 of GNR 326, an independent External Compliance Audits ('a S54 Audit') is required to verify compliance with the Environmental Management Programmes (EMPr) for the project. The letter attached notifies all potential and registered interested and affected parties, including organs of state with applicable jurisdiction as well as the competent authority, of the submission of the external compliance audit report to the competent authority. The report is available for inspection at https://www.savannahsa.com/public-documents/other/ for 14 days from date of this notification.

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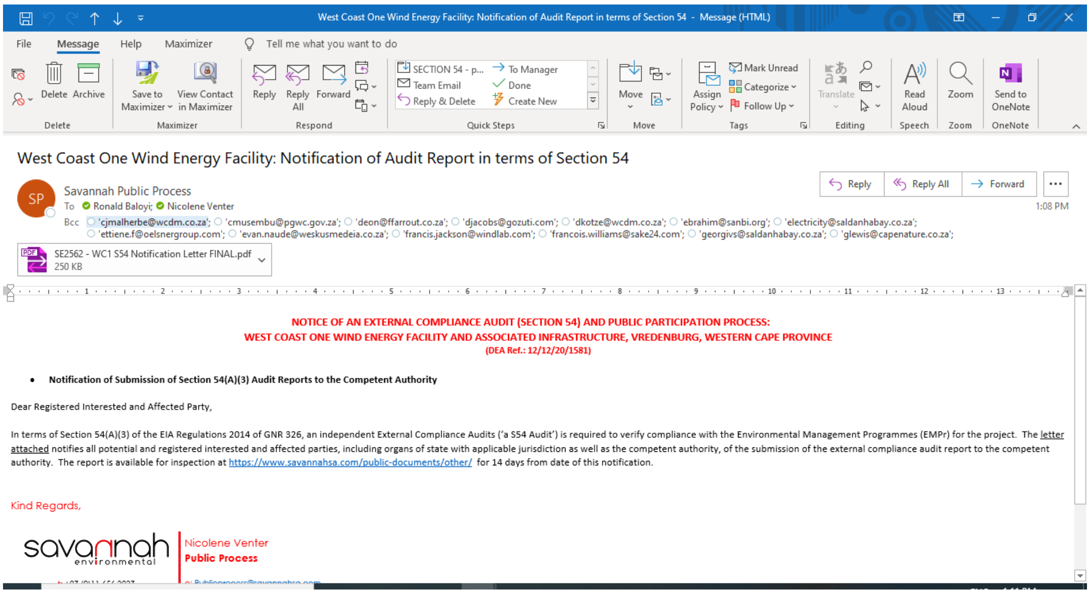
savannah environmental
Nicolene Venter
Public Process



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To Ronald Baloyi; Nicolene Venter
1:08 PM
Bcc 'cjmalherbe@wcdm.co.za'; 'cmusembu@pgwc.gov.za'; 'deon@ffarrout.co.za'; 'djacobs@gozuti.com'; 'dkotze@wcdm.co.za'; 'ebrahim@sanbi.org'; 'electricity@saldanhabay.co.za'; 'ettiene.f@oelsnergroup.com'; 'evan.naude@weskusmedeia.co.za'; 'francis.jackson@windlab.com'; 'francois.williams@sake24.com'; 'georgivs@saldanhabay.co.za'; 'glewis@capenature.co.za';

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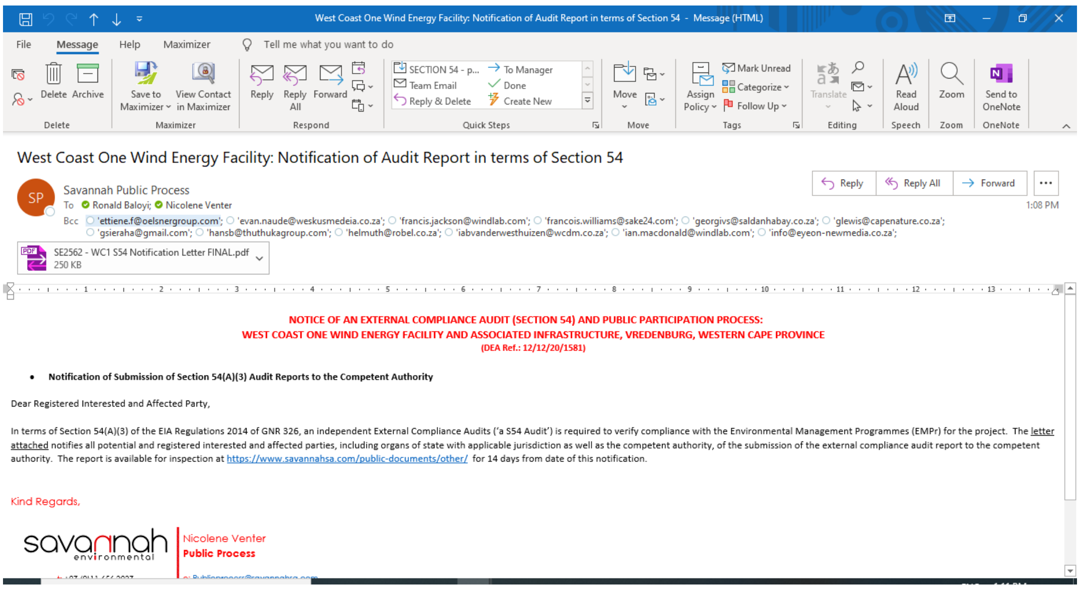

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1:08 PM
Bcc 'ettiene.f@oelsnergroup.com'; 'evan.naude@weskusmedeia.co.za'; 'francis.jackson@windlab.com'; 'francois.williams@sake24.com'; 'georgivs@saldanhabay.co.za'; 'glewis@capenature.co.za'; 'gsieraha@gmail.com'; 'hansb@thuthukagroup.com'; 'helmuth@robel.co.za'; 'iabvanderwesthuizen@wcdm.co.za'; 'ian.macdonald@windlab.com'; 'info@eyeon-newmedia.co.za';

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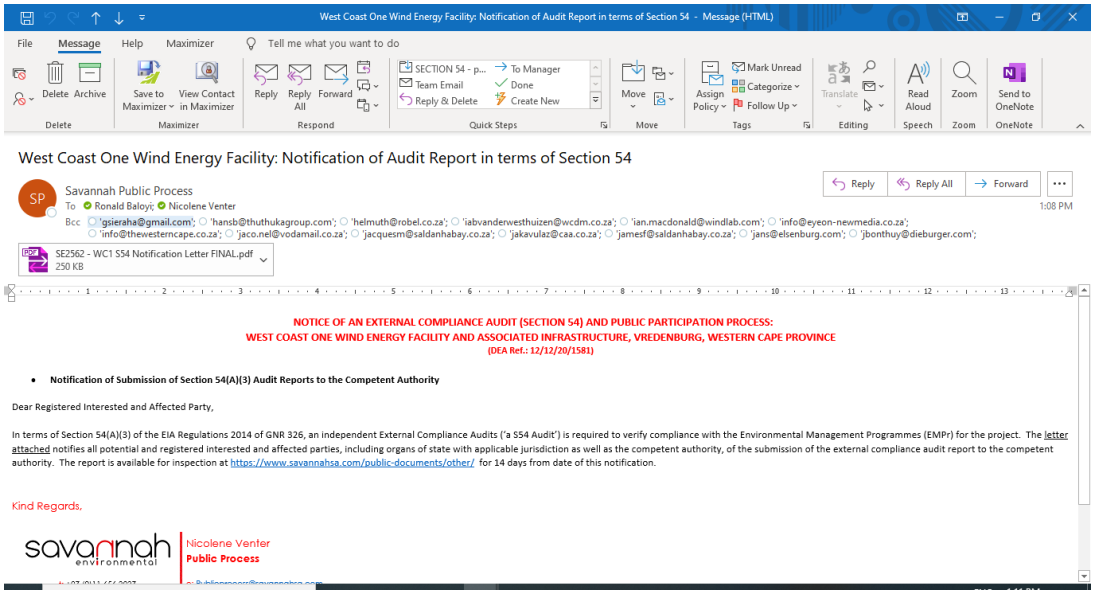
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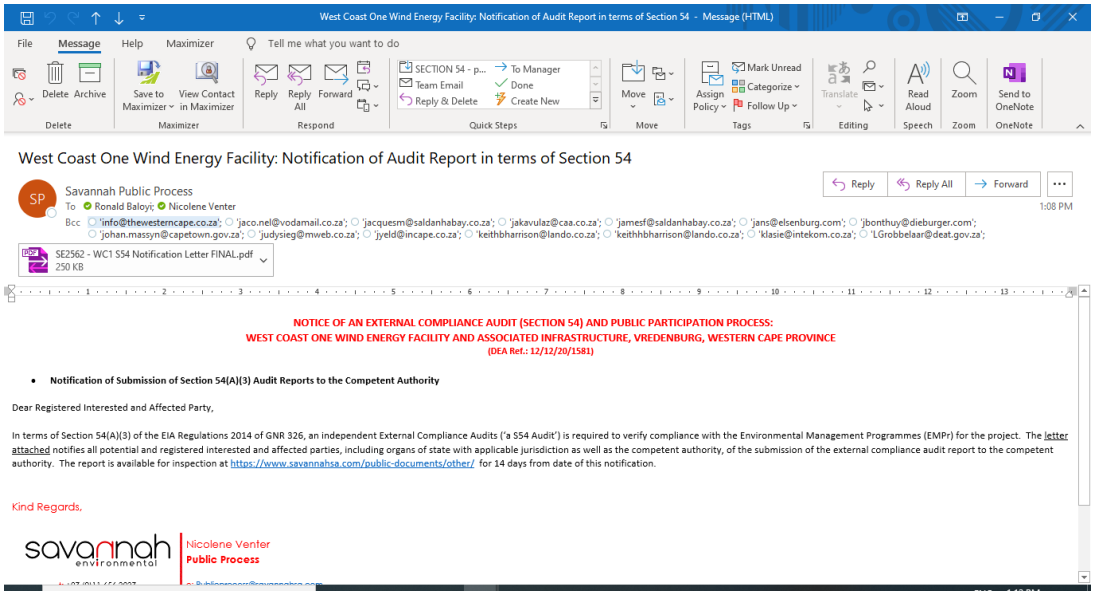
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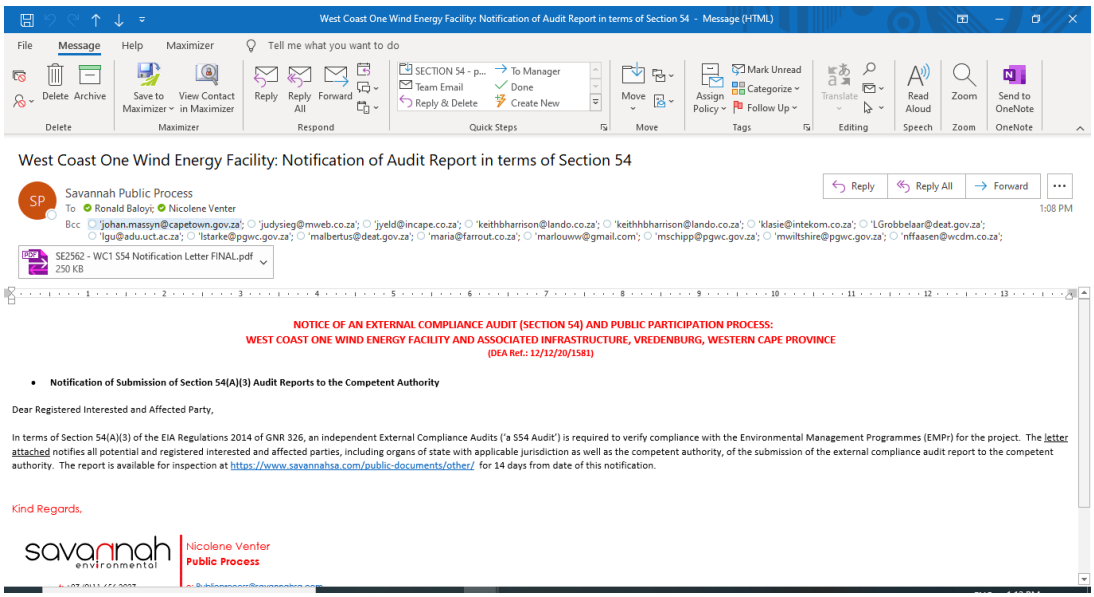
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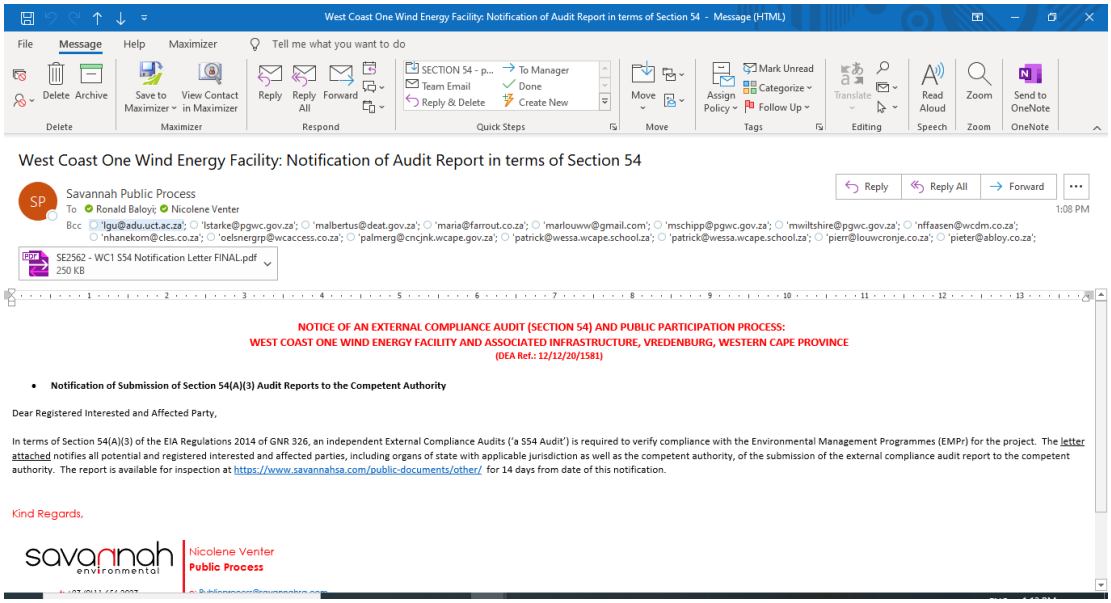
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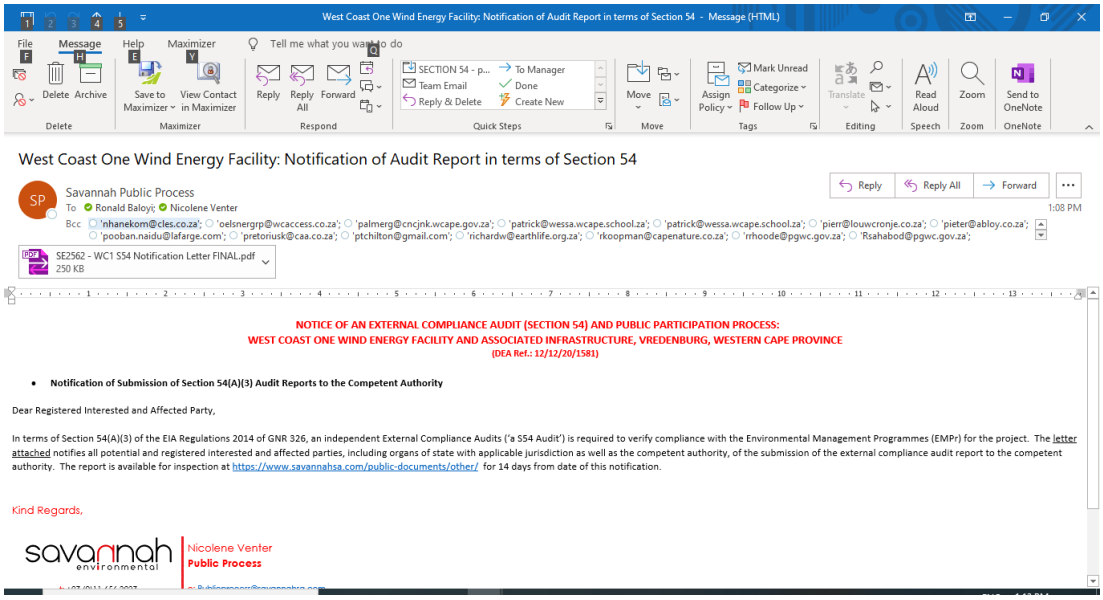
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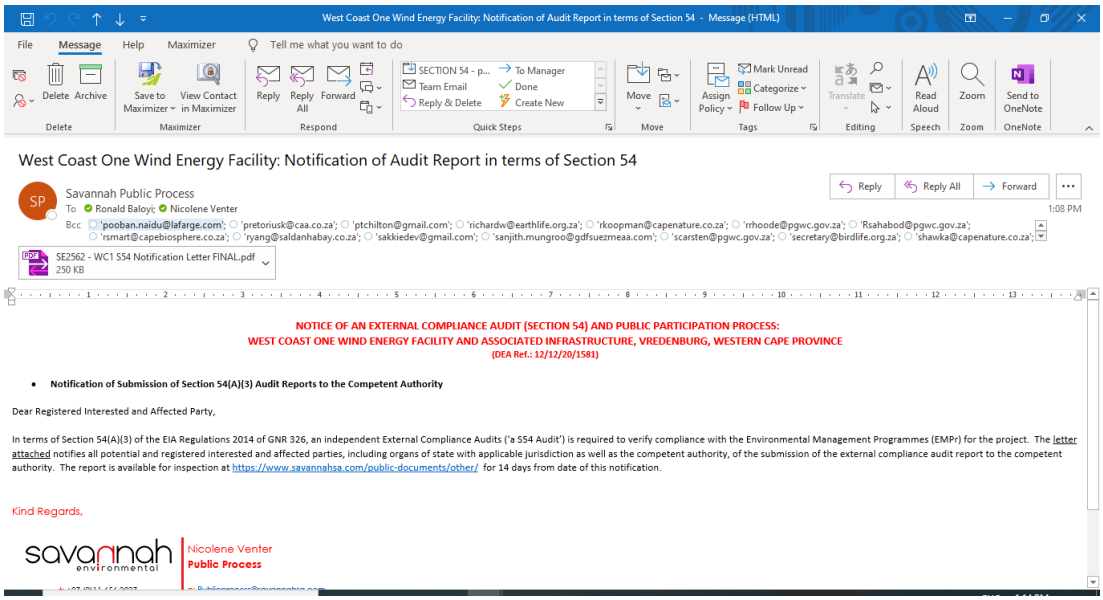
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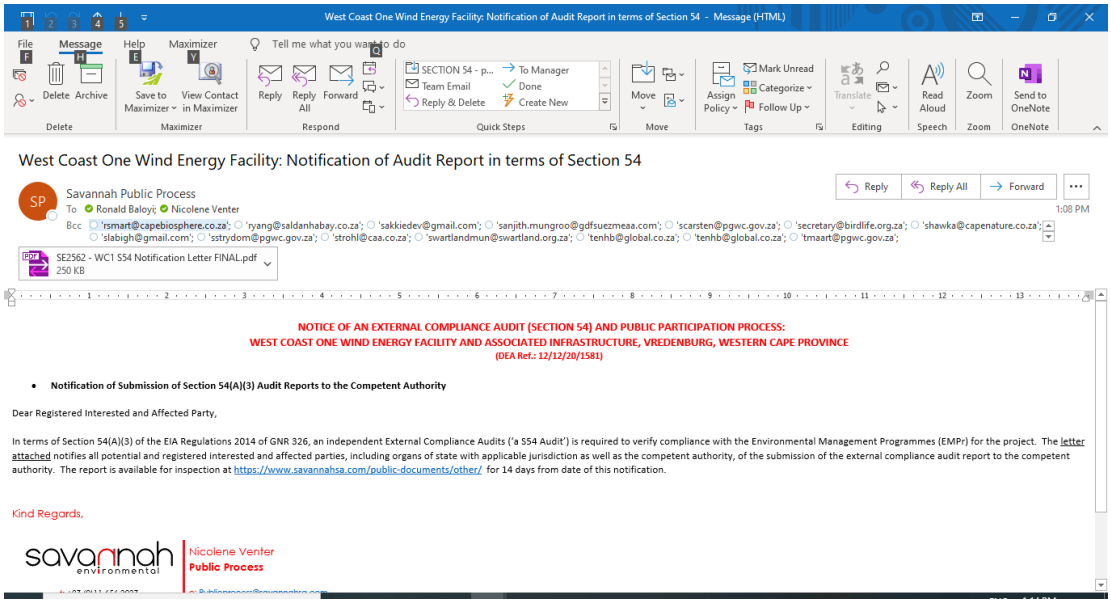
In terms of Section 54(A)(3) of the EIA Regulations 2014 of GNR 326, an independent External Compliance Audits ('a S54 Audit') is required to verify compliance with the Environmental Management Programmes (EMPr) for the project. The letter attached notifies all potential and registered interested and affected parties, including organs of state with applicable jurisdiction as well as the competent authority, of the submission of the external compliance audit report to the competent authority. The report is available for inspection at https://www.savannahsa.com/public-documents/other/ for 14 days from date of this notification.
Kind Regards,
savannah environmental
Nicolene Venter
Public Process


West Coast One Wind Energy Facility: Notification of Audit Report in terms of Section 54 - Message (HTML)
File
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SECTION 54 - p...
To Manager
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Reply & Delete
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Move
Assign Policy
Mark Unread
Categorize
Follow Up
Translate
Read Aloud
Zoom
Send to OneNote
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Maximizer
Respond
Quick Steps
Move
Tags
Editing
Speech
Zoom
OneNote
West Coast One Wind Energy Facility: Notification of Audit Report in terms of Section 54
SP
Savannah Public Process
To Ronald Baloyi; Nicolene Venter
1:08 PM
Bcc 'rsmart@capebiosphere.co.za'; 'ryang@saldanhabay.co.za'; 'sakkiedev@gmail.com'; 'sanjith.mungroo@gdfsuezmeaa.com'; 'scarsten@pgwc.gov.za'; 'secretary@birdlife.org.za'; 'shawka@capenature.co.za'; 'slabigh@gmail.com'; 'sstrydom@pgwc.gov.za'; 'strohl@caa.co.za'; 'swartlandmun@swartland.org.za'; 'tenhb@global.co.za'; 'tenhb@global.co.za'; 'tmaart@pgwc.gov.za';
SE2562 - WC1 S54 Notification Letter FINAL.pdf
250 KB
Reply
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NOTICE OF AN EXTERNAL COMPLIANCE AUDIT (SECTION 54) AND PUBLIC PARTICIPATION PROCESS:
WEST COAST ONE WIND ENERGY FACILITY AND ASSOCIATED INFRASTRUCTURE, VREDENBURG, WESTERN CAPE PROVINCE
(DEA Ref.: 12/12/20/1581)
Notification of Submission of Section 54(A)(3) Audit Reports to the Competent Authority
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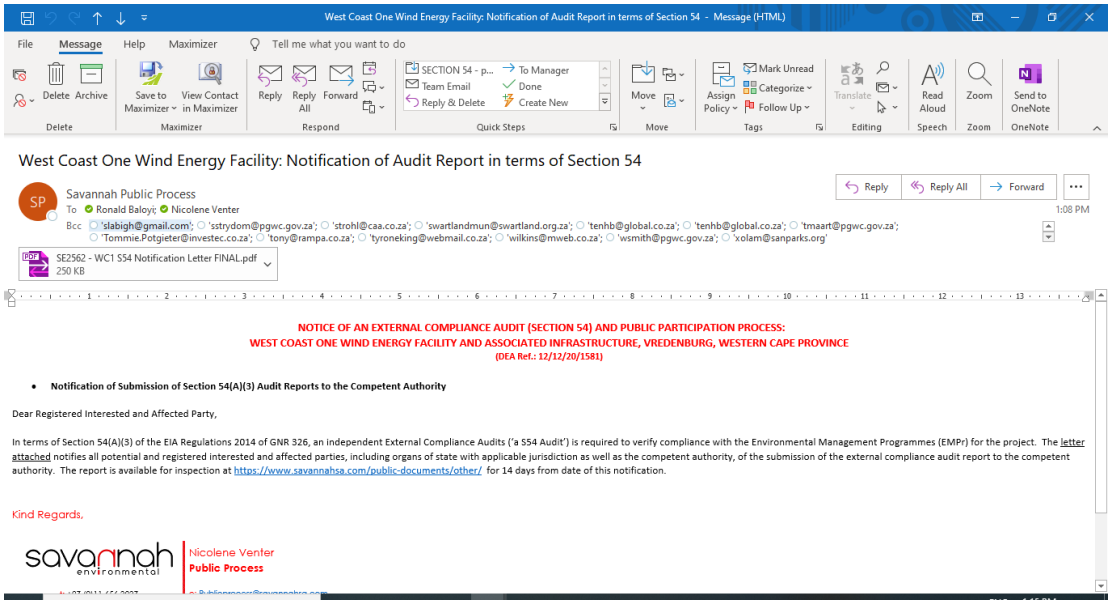
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West Coast One Wind Energy Facility: Notification of Audit Report in terms of Section 54
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Savannah Public Process
To Ronald Baloyi; Nicolene Venter
1:08 PM
Bcc 'slabigh@gmail.com'; 'sstrydom@pgwc.gov.za'; 'strohl@caa.co.za'; 'swartlandmun@swartland.org.za'; 'tenhb@global.co.za'; 'tenhb@global.co.za'; 'tmaart@pgwc.gov.za'; 'Tommie.Potgieter@investec.co.za'; 'tony@rampa.co.za'; 'tyroneking@webmail.co.za'; 'wilkins@mweb.co.za'; 'wsmith@pgwc.gov.za'; 'xolam@sanparks.org'
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