

December 2022 – February 2023

Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility

Western Cape

February 2023

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries and the Environment: Compliance Monitoring

DATED:

January 2021

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
TABLE OF FIGURES	3
1 INTRODUCTION	5
2 GENERAL (NOTABLE EVENTS)	6
2.1 General Outstanding matters.....	7
2.2 Audits (Internal & External).....	7
3 WASTE MANAGEMENT	8
3.1 Domestic/ General Waste	8
3.2 Hazardous waste	8
3.3 Wastewater	8
4 PROTECTIVE MEASURES	9
4.1 General	9
4.2 Dust Control.....	9
4.3 Hazardous Substance	9
5 ENVIRONMENTAL CONSERVATION.....	9
5.1 Conservation of Flora	9
5.2 Conservation of Fauna.....	9
5.3 Water Management	10
5.4 Soil Management.....	10
6 INFRASTRUCTURE MANAGEMENT.....	11
6.1 Access Roads	11
6.2 Fences, Gates and Barricading	11
6.3 Buildings and Structures.....	11
7 SOCIAL RESPONSIBILITY	11
8 ENVIRONMENTAL AWARENESS AND TRAINING.....	11
9 HERITAGE	11

10	NCRS, DEFECTS, PUNCH LISTS	12
11	REHABILITATION	12
12	INCIDENTS AND ACCIDENTS	12
13	MEETINGS AND OTHER CORRESPONDENCE	12
	ANNEXURE A – CONCERNS REGISTER	14
i.	Open Concerns	14
ii.	Closed Concerns	14
	ANNEXURE B – NCR REGISTER	15
	ANNEXURE C – INCIDENTS REGISTER	16

TABLE OF FIGURES

Figure 1:	Container offices being stored at the intended site offices.....	6
------------------	--	---

ABBREVIATIONS

DEA:	Department of Forestry, Fisheries and the Environmental
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
EIA:	Environmental Impact Assessment
EMP:	Environmental Management Programme
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

OPS_007_v001

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd (**NCC**) was appointed by Wolf Wind Farm (RF) (Pty) Ltd (**Wolf**) to provide a suitably experienced independent Environmental Control Officer (**ECO**) for the construction phase of 183MW Wolf Wind Energy Facility (**WEF**) and associated infrastructure located south of the town of Jansenville within the Eastern Cape (**the project**).

On completion the facility will consist of the construction of 24 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building and internal access roads.

In addition to the construction of wind turbines, connecting lines and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in the Environmental Authorisation (**EA**) are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme (**EMPr**).

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations (**EA**)
 - i. 14/12/16/3/3/1/2515 (89km 132kV Line: Wolf-Grassridge).
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation).
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme (EMPr).
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

“The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO.”

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMPr lies with the Project and Project Manager, while the DFFE Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL (NOTABLE EVENTS)

Due to limited activities being undertaken on site during the initial stages it was not deemed necessary for ECO to conduct a site visit for the periods December 2022 and January 2023, however a full time Environmental Site Compliance Officer (**ESCO**) was present to monitoring any minor works that were undertaken.

This report covers the period December 2022 to end of February 2023.

During the month of December pre-construction activities commenced, this included plant search and rescue activities on prioritised areas.

No construction related activities were undertaken during this reporting period.

A small number of container offices were delivered to site and stored at the intended construction site camp. The construction site camp



Figure 1: Container offices being stored at the intended site offices.

The notification of commencement of construction of the WEF, and associated infrastructure, was submitted to the Department of Forestry, Fisheries and the Environment (**DFFE**) on 21st November 2022.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers. The register contains the number of concerns noted and distinguishes between the numbers of outstanding or open items and closed-out items.

Find the concerns register attached as [Annexure A](#).

Any outstanding matters are documented in this section of the ECO's environmental monitoring report.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There were no outstanding matters for this reporting period.

2.2 Audits (Internal & External)

Any audits conducted, both internal and external, and findings will be recorded in this section.

3 WASTE MANAGEMENT

Wolf will make provision for waste avoidance, minimisation and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.

3.1 Domestic/ General Waste

As no activities have been undertaken during this reporting period, no waste area is present on site which will store waste temporarily prior to being transferred to the relevant waste facility.

General waste will be disposed at an approved landfill site. An agreement letter with the municipality must be put in place and a copy of the facilities licence shall be kept on record.

A waste disposal register is to be kept on file for record purposes.

3.2 Hazardous waste

For this month no hazardous waste was reported to have been disposed of.

If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

3.3 Wastewater

Monthly figures will be provided to the ECO once in place.

Record of disposal is kept on record and made available on request.

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

4.2 Dust Control

During site inspection there was no visual observations of dust nuisance.

4.3 Hazardous Substance

No hazardous substances were present on site during the time of site inspection.

Spill kits are to be made available to mitigate and clean any chemical spills when construction commences.

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

Initial search and rescue operations were completed by the botanical specialist prior to construction on several road positions between 30th November 2022 and 6th December 2022 as per the Cape Nature permit¹ conditions.

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping or killing of animals are allowed.

All animal mortalities must be recorded and reported.

No mortalities were recorded during this reporting period.

OPS_007_v001

¹ Flora Permit from Cape Nature: (Ref: CN37-28-23159; and CN37-28-23159 -dated 22/11/2022)

5.3 Water Management

Water for use on site is sourced from a borehole licenced to the project and quantities will be monitored accordingly.

No abstraction took place during this reporting period.

Refer to **Section 12 Incidents and Accidents** for further information regarding any water management issues.

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

The **R75** road is the main public access route to site for all vehicles and personnel and runs between the towns of Jansenville and Wolwefontein.

Internal access roads have been identified and require upgrading in identified areas to accommodate construction needs.

6.2 Fences, Gates and Barricading

No fencing and barricading have been erected during this reporting period.

6.3 Buildings and Structures

Site establishment had not commenced during the reporting period.

An existing farm building was being utilized by the Contractor whilst waiting to commence with the site camp establishment.

7 SOCIAL RESPONSIBILITY

Any complaints from the general public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

All registered complaints will be provided to the ECO.

For this month, no complaints have been reported to the ECO.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks will be conducted by the contractors where applicable.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to the South African Heritage Resources Authority (**SAHRA**).

For this reporting period, no artefact findings were reported to the ECO.

10 NCRS, DEFECTS, PUNCH LISTS

To date, no NCRs were issued to the project.

Find attached NCR register as [Annexure B](#)

11 REHABILITATION

As different phases of the project come to an end where no further construction is envisaged rehabilitation measures will be implemented.

To date no rehabilitation measures have been necessary.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

Find the incidents register attached as [Annexure C](#).

No environmental incidents were reported during this reporting period.

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO only conducted a monthly site visit in the month of February 2023 with observations captured in this monthly environmental performance report.

PREPARED BY:

A handwritten signature in blue ink, appearing to read 'Nick Gates', is positioned below the 'PREPARED BY:' heading.

Nick Gates

Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

Concern Ref No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status

**The concerns register is only updated once the ECO is present on site.*

ii. Closed Concerns

Concern Ref No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date
				•		

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification on Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required

OPS_007_v001

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001

March 2023

Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility, Eastern Cape

March 2023

OPS_007_v001

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries, and the Environment: Compliance Monitoring

DATED:

March 2023

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
TABLE OF FIGURES	3
1 INTRODUCTION	5
2 GENERAL (NOTABLE EVENTS)	6
2.1 General Outstanding matters.....	6
2.2 Audits (Internal & External).....	6
3 WASTE MANAGEMENT	7
3.1 Domestic/ General Waste	7
3.2 Hazardous waste	7
3.3 Wastewater	7
4 PROTECTIVE MEASURES.....	9
4.1 General	9
4.2 Dust Control.....	9
4.3 Hazardous Substance	9
5 ENVIRONMENTAL CONSERVATION.....	11
5.1 Conservation of Flora	11
5.2 Conservation of Fauna.....	11
5.3 Water Management	11
5.4 Soil Management.....	11
6 INFRASTRUCTURE MANAGEMENT.....	12
6.1 Access Roads	12
6.2 Fences, Gates, and Barricading	13
6.3 Buildings and Structures.....	13
7 SOCIAL RESPONSIBILITY	13
8 ENVIRONMENTAL AWARENESS AND TRAINING.....	13
9 HERITAGE	13

10	NCRS & DEFECTS	13
11	REHABILITATION	14
12	INCIDENTS AND ACCIDENTS	14
13	MEETINGS AND OTHER CORRESPONDENCE	14
	ANNEXURE A – CONCERNS REGISTER	16
i.	Open Concerns	16
ii.	Closed Concerns	16
	ANNEXURE B – NCR REGISTER	17
	ANNEXURE C – INCIDENTS REGISTER	18

TABLE OF FIGURES

Figure 1:	Waste collection receipts received form service provider.....	8
Figure 2:	Spill kit located at the site laydown area.	9
Figure 3:	Drip tray being placed under vehicles when stationery.....	10
Figure 4:	Topsoil being stored along the perimeter of the site laydown area.....	11
Figure 5:	Start of main access route to turbine positions.	12
Figure 6:	View of main access route to the north of site laydown area.	12

ABBREVIATIONS

CEO:	Contractors Environmental Officer
DEA:	Department of Forestry, Fisheries, and the Environment
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
EIA:	Environmental Impact Assessment
EMP:	Environmental Management Programme
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd (**NCC**) was appointed by Wolf Wind Farm (RF) (Pty) Ltd (**Wolf**) to provide a suitably experienced independent Environmental Control Officer (**ECO**) for the construction phase of 183MW Wolf Wind Energy Facility (**WEF**) and associated infrastructure located due south of the town of Jansenville within the Eastern Cape (**the project**).

On completion the facility will consist of the construction of 17 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building and internal access roads.

In addition to the construction of wind turbines, connecting lines and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in the Environmental Authorisation (**EA**) are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme (**EMPr**).

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations (**EA**)
 - i. 14/12/16/3/3/1/2515 (89km 132kV Line: Wolf-Grassridge).
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation).
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme (**EMPr**).
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses, and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

"The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO."

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMPr lies with the Project and Project Manager, while the DFFE Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL (NOTABLE EVENTS)

Works commenced, or continued, during this reporting period included the following activities:

- Establishment of site camp (Offices).
- Clearing and establishment of site laydown area.
- Maintenance on existing access road ("Vodacom Road").
- Clearing and construction of main access road.
- Pegging of turbine positions, associated infrastructure, and access roads.
- Clearing and mulching of vegetation.

This report covers the period to end of March 2023.

It was reported in the February 2023 report that the facility will consist of **24** turbines when in fact there are only **17** turbines which will be placed, this was relayed to the Department on the 24th of March 2023.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers. The register contains the number of concerns noted and distinguishes between the numbers of outstanding or open items and closed-out items.

Find the concerns register attached as [Annexure A](#).

Any outstanding matters are documented in this section of the ECO's environmental monitoring report.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There were no outstanding matters for this reporting period.

2.2 Audits (Internal & External)

Any audits conducted, both internal and external will be included in the report as and when conducted.

A summary and any findings of concern will be recorded in this section.

Audit tables are available on request.

3 WASTE MANAGEMENT

Wolf will make provision for waste avoidance, minimisation, and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.

3.1 Domestic/ General Waste

No designated waste area is present on site which will store waste temporarily prior to being transferred to the relevant waste facility. Only smaller waste receptacles are present on site to handle the minimal waste produced.

General waste will be disposed at an approved landfill site. An agreement letter with the municipality/landfill must be put in place and a copy of the facilities licence shall be kept on record.

Monthly figures are recorded by the contractor's Environmental Officer (EO) on a waste register and provided to the Environmental Site Compliance Officer (ESCO) which in turn is provided to the ECO.

A waste disposal register is to be kept on file for record purposes.

No general waste figures were recorded for this reporting period as was skips area on order.

3.2 Hazardous waste

Monthly figures are recorded by the contractor's Environmental Officer (**cEO**) on a waste register and provided to the Environmental Site Compliance Officer (**ESCO**) which in turn is provided to the ECO.

For this month no hazardous waste was reported to have been disposed of.

If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

3.3 Wastewater

Monthly figures are recorded by the cEO on a waste register and provided to the ESCO which in turn is provided to the ECO.

Record of disposal is kept on record and made available on request.

An estimated **1800L** of wastewater from portable toilets was removed off site during the reporting period.

TOILET HIRE DELIVERY COLLECTION SERVICE NOTE

Address for Delivery - Collection - Service: WINDRAKE FARM

NUMBER OF UNITS: 5 FF (11, 13, 29, 50, 52)

Supplied to you: Toilet Roll(s) 5 Chemical 5

I confirm that the above has been carried out to my satisfaction.

Date: 08/03/23 Signature: [Signature] Designation: FAIRMAN

Were you satisfied with the service? ☒ Y ☐ N TIME IN: 09:40 TIME OUT: 10:35

TOILET HIRE DELIVERY COLLECTION SERVICE NOTE

Address for Delivery - Collection - Service: CONZOR FARM

NUMBER OF UNITS: 5 FF (11, 13, 29, 50, 52)

Supplied to you: Toilet Roll(s) 10 Chemical 5

I confirm that the above has been carried out to my satisfaction.

Date: 11/03/23 Signature: [Signature] Designation: FAIRMAN

Were you satisfied with the service? ☒ Y ☐ N TIME IN: 09:54 TIME OUT: 10:35

TOILET HIRE DELIVERY COLLECTION SERVICE NOTE

Address for Delivery - Collection - Service: CONZOR WINDRAKE FARM

NUMBER OF UNITS: 5 FF (11, 13, 29, 50, 52)

Supplied to you: Toilet Roll(s) 10 Chemical 5

I confirm that the above has been carried out to my satisfaction.

Date: 11/03/23 Signature: [Signature] Designation: FAIRMAN

Were you satisfied with the service? ☒ Y ☐ N TIME IN: 09:30 TIME OUT: 10:35

Figure 1: Waste collection receipts received form service provider.

OPS_007_v001

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

4.2 Dust Control

During site inspection there was no visual observations of dust nuisance.

4.3 Hazardous Substance

No hazardous substances were present on site during the time of site inspection.

Spill kits are to be made available to mitigate and clean any chemical spills when construction commences.



Figure 2: Spill kit located at the site laydown area.



Figure 3: Drip tray being placed under vehicles when stationary.

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

No Search and Rescue (S&R) operations were conducted by the botanical specialist during this reporting period. S&R operation to continue in April for sections of Overhead Power Line. It was indicated that the WEF footprint and laydown areas are complete. All S&R operations are conducted as per the Department of Economic Development, Environmental Affairs and Tourism (DEDET) ordinary permit conditions¹.

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping, or killing of animals are allowed.

All animal mortalities must be recorded and reported. No mortalities were recorded during this reporting period.

5.3 Water Management

Water for use on site must be sourced from a licenced water source and quantities will be monitored accordingly. Proof to provided thereof.

It was indicated that no water abstraction took place during this reporting period.

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.

Erosion and stormwater measures must be put in place to reduce loss of topsoil.



Figure 4: Topsoil being stored along the perimeter of the site laydown area.

¹ Permit No: TO-202206000001989. Expiring 24th June 2023

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

The **R75** road is the main public access route to site for all vehicles and personnel and runs between the towns of Jansenville and Kleinpoort.

Works on two access roads has commenced with clearing and maintenance works.



Figure 5: Start of main access route to turbine positions.



Figure 6: View of main access route to the north of site laydown area.

6.2 Fences, Gates, and Barricading

No fencing and barricading have been erected during this reporting period.

6.3 Buildings and Structures

An existing farm building is being utilized as the main site offices for the project, additional office containers have been brought onto site to accommodate additional staff.

An office container has been located at the site laydown area with additional due for delivery in the following month.

7 SOCIAL RESPONSIBILITY

Any complaints from the general public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

All registered complaints will be provided to the ECO.

For this reporting period, no complaints have been reported to the ECO.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks will be conducted by the contractors where applicable.

The CEO is to keep records of all staff which have undertaken induction training.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to the South African Heritage Resources Authority (SAHRA).

For this reporting period, no artefact findings were reported to the ECO.

10 NCRS & DEFECTS

To date, no NCRs were issued to the project.

Find attached NCR register as [Annexure B](#)

11 REHABILITATION

As different phases of the project come to an end where no further construction is envisaged, rehabilitation measures will be implemented.

To date no rehabilitation measures have been necessary.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

Find the incidents register attached as [Annexure C](#).

No environmental incidents were reported during this reporting period.

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO conducted the monthly site visit on the 4th of April 2023 with observations captured in this monthly environmental performance report for the month of March.

A monthly ECO compliance report was submitted to the Department on the 22nd of March 2023.

Receipt acknowledgment from the Department was received on the 23rd of March 2023.

PREPARED BY:

A handwritten signature in blue ink, appearing to read 'Nick Gates', is positioned below the 'PREPARED BY:' heading.

Nick Gates

Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

OPS_007_v001

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

Concern Ref No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status

**The concerns register is only updated once the ECO is present on site.*

ii. Closed Concerns

Concern Ref No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date
				•		

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification on Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required

OPS_007_v001

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001

April 2023

Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility, Eastern Cape

April 2023

OPS_007_v001

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries, and the Environment: Compliance Monitoring

DATED:

April 2023

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS	2
TABLE OF FIGURES	3
1 INTRODUCTION	5
2 GENERAL (NOTABLE EVENTS)	6
2.1 General Outstanding matters	6
2.2 Audits (Internal & External)	6
3 WASTE MANAGEMENT	7
3.1 Domestic/ General Waste	7
3.2 Hazardous waste	8
3.3 Wastewater	8
4 PROTECTIVE MEASURES	9
4.1 General	9
4.2 Dust Control	9
4.3 Hazardous Substance	9
5 ENVIRONMENTAL CONSERVATION	10
5.1 Conservation of Flora	10
5.2 Conservation of Fauna	10
5.3 Water Management	11
5.4 Soil Management	11
6 INFRASTRUCTURE MANAGEMENT	12
6.1 Access Roads	12
6.2 Fences, Gates, and Barricading	12
6.3 Buildings and Structures	12
7 SOCIAL RESPONSIBILITY	12
8 ENVIRONMENTAL AWARENESS AND TRAINING	12
9 HERITAGE	13

10	NCRS & DEFECTS	13
11	REHABILITATION	13
12	INCIDENTS AND ACCIDENTS	13
13	MEETINGS AND OTHER CORRESPONDENCE	14
	ANNEXURE A – CONCERNS REGISTER	15
i.	Open Concerns	15
ii.	Closed Concerns	15
	ANNEXURE B – NCR REGISTER	16
	ANNEXURE C – INCIDENTS REGISTER	17

TABLE OF FIGURES

Figure 1:	Waste collection receipts received form service provider.....	7
Figure 2:	Portable toilet, tied down and available to staff on site.....	8
Figure 3:	Bulk fuel storage container which arrived on site. Was not in use at the time of site visit.....	9
Figure 4:	Temporary storage area for alien invasives.	10
Figure 5:	Topsoil be neatly stored at the laydown area.....	11

ABBREVIATIONS

EO:	Contractors Environmental Officer
DEA:	Department of Forestry, Fisheries, and the Environment
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
EIA:	Environmental Impact Assessment
EMP:	Environmental Management Programme
EO:	Contractors Environmental Officer
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

OPS_007_v001

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd (**NCC**) was appointed by Wolf Wind Farm (RF) (Pty) Ltd (**Wolf**) to provide a suitably experienced independent Environmental Control Officer (**ECO**) for the construction phase of 183MW Wolf Wind Energy Facility (**WEF**) and associated infrastructure located due south of the town of Jansenville within the Eastern Cape (**the project**).

On completion the facility will consist of the construction of 17 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building and internal access roads.

In addition to the construction of wind turbines, connecting lines and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in [ANNEXURE D](#) the Environmental Authorisation (**EA**) are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme (**EMPr**).

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations (**EA**)
 - i. 14/12/16/3/3/1/2515 (89km OHPL: Wolf-Grassridge)
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation)
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme (**EMPr**).
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses, and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

"The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO."

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMPr lies with the Project and Project Manager, while the DFFE Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL (NOTABLE EVENTS)

Works commenced, or continued, during this reporting period included the following activities:

- Establishment of site camp (Offices).
- Clearing and establishment of site laydown area.
- Maintenance on existing access road ("Vodacom Road").
- Clearing and construction of main access road.
- Pegging of turbine positions, associated infrastructure, and access roads.
- Clearing and mulching of vegetation.

This report covers the period to end of April 2023.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers. The register contains the number of concerns noted and distinguishes between the numbers of outstanding or open items and closed-out items.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There is **one** outstanding matter for this reporting period.

Find the concerns register attached as [Annexure A](#).

2.2 Audits (Internal & External)

Any audits conducted, both internal and external will be included in the report as and when conducted.

A summary and any findings of concern will be recorded in this section.

Audit tables are available on request.

3 WASTE MANAGEMENT

Wolf will make provision for waste avoidance, minimisation, and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.

3.1 Domestic/ General Waste

A designated waste area is present at the contractor site offices which will store waste temporarily prior to being transferred to the relevant waste facility.



Figure 1: Waste collection receipts received form service provider.

Smaller waste receptacles are present on site to handle the minimal waste produced.

An agreement is in place with a service provider to service on site skips. General waste will be disposed at an approved landfill site. An agreement letter with the municipality/landfill must be put in place and a copy of the facilities licence shall be kept on record.

Monthly figures are recorded by the contractor's Environmental Officer (**EO**) on a waste register and provided to the Environmental Site Compliance Officer (**ESCO**) which in turn is provided to the ECO.

A waste disposal register is to be kept on file for record purposes.

No general waste figures were recorded for this reporting period as it was reported that no waste was disposed of.

3.2 Hazardous waste

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO.

If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

No hazardous waste figures were recorded for this reporting period as it was reported that no waste was disposed of.

3.3 Wastewater

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO.

Record of disposal is kept on record and made available on request.

An estimated **2400L** of wastewater from portable toilets was removed off site during the reporting period.



Figure 2: Portable toilet, tied down and available to staff on site.

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

4.2 Dust Control

During site inspection dust was present, in particular the new access road section. Although dust was present it was confined to the site area visual observations of dust nuisance. No dust suppression measures were deployed during this period. The Contractor is aware of the potential issues if measures are not put in place. Dust suppression measures will be revisited during next month's site visit.

4.3 Hazardous Substance

A 23000-litre bunded bulk fuel storage container was placed on site during this reporting period but was not in use during the time of inspections. A 10000-litre fuel tanker is present on site to assist with refuelling on site.

Spill kits are to be made available to mitigate and clean any chemical spills when construction commences.



Figure 3: Bulk fuel storage container which arrived on site. Was not in use at the time of site visit.

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

Minor Search and Rescue (**S&R**) operations were conducted by the contractors EO during this reporting period. S&R operation to continue in April for sections of Overhead Power Line. It was indicated that the WEF footprint and laydown areas are complete.

All S&R operations are conducted as per the Department of Economic Development, Environmental Affairs and Tourism (**DEDET**) ordinary permit conditions¹.

Any alien invasive species removed from the working area are stored in a dedicated area within the site laydown in order to dry and die out.

The contractor is in the process of finalizing measures for disposal/removal off site.

The contractor intends to propose the burning of cuttings on site in order to reduce the risk of spreading seed during transit. Any burning would be conducted under strict conditions and procedures as approved by the ESCO and review by the ECO. No procedures have been provided to the ECO for review.



Figure 4: Temporary storage area for alien invasives.

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping, or killing of animals are allowed. All animal mortalities must be recorded and reported.

No mortalities were recorded during this reporting period.

¹ Permit No: TO-202206000001989. Expiring 24th June 2023

5.3 Water Management

Water for use on site must be sourced from an authorised water source and quantities must be monitored accordingly. Proof to provided thereof.

It was indicated that no water abstraction took place during this reporting period.

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.



Figure 5: Topsoil be neatly stored at the laydown area.

Erosion and stormwater measures must be put in place and maintained to reduce loss of topsoil and prevent erosion.

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

The **R75** road is the main public access route to site for all vehicles and personnel and runs between the towns of Jansenville and Kleinpoort.

Works continues on the main access road with cutting and filling operations.

6.2 Fences, Gates, and Barricading

No fencing and barricading have been erected during this reporting period.

6.3 Buildings and Structures

An existing farm building is being utilized as the main site offices for the project, additional office containers have been brought onto site to accommodate additional staff.

An office container has been located at the site laydown area with additional due for delivery in the following month.

7 SOCIAL RESPONSIBILITY

Any complaints from the general public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

All registered complaints will be provided to the ECO.

For this reporting period, no complaints have been reported to the ECO.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks are conducted by the contractors where applicable.

The EO is to keep records of all staff which have undertaken induction training.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to and heritage specialist and the Relevant Heritage authority.

A number of marked and unmarked graves were identified by the Contractor on the 13km OHPL working area between poles 17 and 18. It was indicated that the graves would not be directly impacted by the construction of the line however works stopped in the vicinity and a heritage specialist is being consultant and discussions are ongoing.

10 NCRS & DEFECTS

To date, no NCRs were issued to the project.

Find attached NCR register as [Annexure B](#).

11 REHABILITATION

As different phases of the project come to an end where no further construction is envisaged, rehabilitation measures will be implemented.

To date no rehabilitation measures have been necessary.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

Find the incidents register attached as [Annexure C](#).

No environmental incidents were reported during this reporting period.

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO conducted the monthly site visit on the 25th of April 2023 with observations captured in this monthly environmental performance report for the month of April.

A monthly ECO compliance report for the March period was submitted to the Department on the 18th of April 2023.

Receipt acknowledgment from the Department was received on the 24th of April 2023.

PREPARED BY:



Nick Gates

Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

Concern Ref No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status
001	25 th April 2023	Discovery of marked and unmarked graves along the 89km OHPL route.	17 th May 2023	Contact heritage specialist and notify relevant authority	Contact being made with the relevant parties.	Open

**The concerns register is only updated once the ECO is present on site.*

ii. Closed Concerns

Concern Ref No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date
				•		

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification on Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required

OPS_007_v001

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001

May 2023

Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility, Eastern Cape
May 2023

OPS_007_v001

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries, and the Environment: Compliance Monitoring

DATED:

May 2023

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
TABLE OF FIGURES	3
1 INTRODUCTION	5
2 GENERAL	6
2.1 General Outstanding matters.....	6
2.2 Audits (Internal & External).....	6
3 WASTE MANAGEMENT	7
3.1 Domestic/ General Waste	7
3.2 Hazardous waste	8
3.3 Wastewater	8
4 PROTECTIVE MEASURES	9
4.1 General	9
4.2 Dust Control.....	9
4.3 Hazardous Substance	10
5 ENVIRONMENTAL CONSERVATION.....	11
5.1 Conservation of Flora	11
5.2 Conservation of Fauna.....	11
5.3 Water Management	11
5.4 Soil Management.....	11
6 INFRASTRUCTURE MANAGEMENT.....	13
6.1 Access Roads	13
6.2 Fences, Gates, and Barricading	13
6.3 Buildings and Structures.....	13
7 SOCIAL.....	13
8 ENVIRONMENTAL AWARENESS AND TRAINING.....	14
9 HERITAGE	14

10	NCRS & DEFECTS	14
11	REHABILITATION	15
12	INCIDENTS AND ACCIDENTS	15
13	MEETINGS AND OTHER CORRESPONDENCE	15
	ANNEXURE A – CONCERNS REGISTER	17
i.	Open Concerns	17
ii.	Closed Concerns	17
	ANNEXURE B – NCR REGISTER	18
	ANNEXURE C – INCIDENTS REGISTER	19

TABLE OF FIGURES

Figure 1:	Waste collection skips with signage to indicate permitted waste types.	7
Figure 2:	Measure being implemented to assist in drainage at the laydown area.....	9
Figure 3:	Works commencing on bunding for bulk fuel storage container.	10
Figure 4:	View of internal access road as seen from turbine position.	12
Figure 5:	Stockpile of material for access route. Stockpile is well maintained.	12
Figure 6:	A eating area has been established at the laydown area at the base of the access road.	13

ABBREVIATIONS

DEA:	Department of Forestry, Fisheries, and the Environment
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
ESCO:	Environmental Site Compliance Officer
EIA:	Environmental Impact Assessment
EMP:	Environmental Management Programme
EO:	Contractors Environmental Officer
EO:	Contractors Environmental Officer
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
OHPL:	Overhead Power Line
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

OPS_007_v001

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd (**NCC**) was appointed by Wolf Wind Farm (RF) (Pty) Ltd (**Wolf**) to provide a suitably experienced independent Environmental Control Officer (**ECO**) for the construction phase of 183MW Wolf Wind Energy Facility (**WEF**) and associated infrastructure located due south of the town of Jansenville within the Eastern Cape (**the project**).

On completion the facility will consist of the construction of 17 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building and internal access roads.

In addition to the construction of wind turbines, connecting lines and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in [Annexure D](#) the Environmental Authorisation (**EA**) are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme (**EMPr**).

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations (**EA**)
 - i. 14/12/16/3/3/1/2515 (89km OHPL: Wolf-Grassridge)
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation)
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme (**EMPr**).
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses, and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

"The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO."

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMPr lies with the Project and Project Manager, while the DFFE Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL

Works commenced, or continued, during this reporting period included the following activities:

- Establishment of site camp (Offices).
- Clearing and establishment of site laydown area/s.
- Bulk earth works on main access road and turbine positions.
- Surveying and pegging of the OHPL.
- Surveying and pegging of the IPP substation and associated infrastructure.
- Search & Rescue.

Heavy rains were experienced in the days prior to the ECO site visit on the 30th of May 2023.

This report covers the period to end of May 2023.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers. The register contains the number of concerns noted and distinguishes between the numbers of outstanding or open items and closed-out items.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There are **two** outstanding matters for this reporting period.

Find the concerns register attached as [Annexure A](#).

2.2 Audits (Internal & External)

Internal audits are conducted monthly by the ESCO and are available on request.

All external audit results will be included in this section as and when conducted.

A summary and any findings of concern will be recorded in this section.

Audit tables are available on request.

3 WASTE MANAGEMENT

Wolf will make provision for waste avoidance, minimisation, and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.

3.1 Domestic/ General Waste

A designated waste area is present at the contractor site offices which will store waste temporarily prior to being transferred to the relevant waste facility.



Figure 1: Waste collection skips with signage to indicate permitted waste types.

An agreement is in place with a service provider to service on site skips. General waste will be disposed at an approved landfill site. An agreement letter with the municipality/landfill must be put in place and a copy of the facilities licence shall be kept on record.

Monthly figures are recorded by the contractor's Environmental Officer (**EO**) on a waste register and provided to the Environmental Site Compliance Officer (**ESCO**) which in turn is provided to the ECO.

A waste disposal register is to be kept on file for record purposes.

No general waste figures were recorded for this reporting period as it was reported that no waste was disposed of however **117 kg** of recyclable material as collected by a recycling service provider.

3.2 Hazardous waste

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO.

If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

No hazardous waste figures were recorded for this reporting period as it was reported that no waste was disposed of.

3.3 Wastewater

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO.

Mobile portable toilets are made available on site and are serviced weekly. Disposal and transport permits are available on site. Record of disposal is kept on record and made available on request.

An estimated **2400L** of wastewater from portable toilets was removed off site during the reporting period.

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

Measures are being implemented to alleviate excess stormwater on site including installing large rock material to aid with water filtration.



Figure 2: Measure being implemented to assist in drainage at the laydown area.

4.2 Dust Control

Due to heavy rains prior to site visit no dust was observed on site therefore no dust suppression measures were necessary. A concern was raised by the Project Construction Manager and ESCO regarding dust suppression, additional suppression measures were initiated but the concern remained open at the time of reporting.

4.3 Hazardous Substance

The 23000-litre bunded bulk fuel storage container (empty) present on site has not been commissioned.

Bunding has not complete.

A 10000-litre fuel tanker is present on site to assist with refuelling on site.

Spill kits are to be made available to mitigate and clean any chemical spills when required.



Figure 3: Works commencing on bunding for bulkf fuel storage container.

OPS_007_v001

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

All S&R operations are conducted as per the Department of Economic Development, Environmental Affairs and Tourism (DEDET) ordinary permit conditions¹.

Any alien invasive species removed from the working area are stored in a dedicated area within the site laydown in order to dry and die out.

Search and rescue operations continued on the OHPL between Wolf substation and Skilpad substation from SW188 – SW80.

Four *Encephelartos longifolius* which were identified by the specialist within the construction footprint were relocated off the construction footprint on the same property. Site inspections are conducted to monitor the plants.

The contractor intends to propose the burning of alien invasive cuttings on site in order to reduce the risk of spreading seed during transit. Any burning would be conducted under strict conditions and procedures as approved by the ESCO and review by the ECO. No procedures have been provided to the ECO for review.

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping, or killing of animals are allowed. All animal mortalities must be recorded and reported.

No mortalities were recorded during this reporting period.

5.3 Water Management

Water for use on site must be sourced from an authorised water source and quantities must be monitored accordingly. Proof to provided thereof.

It was indicated that no water abstraction took place during this reporting period.

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.

Stockpiles of soil material were observed as being kept separate.

¹ Permit No: TO-202206000001989. Expiring 24th June 2023



Figure 4: View of internal access road as seen from turbine position.

OPS_007_v001



Figure 5: Stockpile of material for access route. Stockpile is well maintained.

Erosion and stormwater measures must be put in place and maintained to reduce loss of topsoil and prevent erosion.

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

Works continues on the main access road with cutting and filling operations.

6.2 Fences, Gates, and Barricading

No fencing and barricading issues have been during this reporting period. Any fences that have been removed due to the access road have had concertina fencing/gates installed until such time permanent gates are installed.

6.3 Buildings and Structures

An existing farm building is being utilized as the main site offices for the project, additional office containers have been brought onto site to accommodate additional staff.

Temporary toilets (temporary for the duration of the project) have been installed and will be connected to the in-situ conservancy tanks. Conservancy tanks will be serviced by a dedicated service provider.

7 SOCIAL

Any complaints from the general public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

All registered complaints will be provided to the ECO.

For this reporting period, no complaints have been reported to the ECO.



Figure 6: A eating area has been established at the laydown area at the base of the access road.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks are conducted by the contractors where applicable.

The EO is to keep records of all staff which have undertaken induction training.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to and heritage specialist and the Relevant Heritage authority.

A number of marked and unmarked graves which were identified between poles 17 and 18 of the OHPL were not directly impacted upon by the project. Although there is no direct impact the Project team after consultation with the landowner and heritage specialist elected to reposition poles 17 and 18 so that the line would not pass over the identified area. The line will be redirected within the provided for corridor.

This will remain an open concern until such time it is confirmed that the redirected route does not encounter a similar issue.

10 NCRS & DEFECTS

One NCR was issued by the ESCO to the Contractor during this reporting period as a result of a failure to implement dust suppression during construction activities, it was reported that an investigation and corrective actions were in progress.

To date, no NCRs were issued to the project by the ECO.

No NCRs remained open during this reporting period.

Open NCRs	Closed NCRs
1	0

Table 1: NCR Status (ECO & ESCO issued)

Find attached NCR register as [Annexure B](#).

11 REHABILITATION

As different phases of the project come to an end where no further construction is envisaged, rehabilitation measures will be implemented.

To date no rehabilitation measures have been necessary.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

No environmental incidents were reported during this reporting period. Find the incidents register attached as [Annexure C](#)

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO conducted the monthly site visit on the 31st of May 2023 with observations captured in this monthly environmental performance report for the month of May.

A monthly ECO compliance report for the April period was submitted to the Department on the 16th of May 2023.

Receipt acknowledgment from the Department was received on the 22nd of April May.

PREPARED BY:



Nick Gates

Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

OPS_007_v001

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

Concern Ref No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status
001	25 th April 2023	Discovery of marked and unmarked graves along the 89km OHPL route.	17 th May 2023	Contact heritage specialist and notify relevant authority	Contact being made with the relevant parties.	Open
002	12 th May 2023	Excessive dust	Immediately	Increase dust suppression measures	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	Open

**The concerns register is only updated once the ECO is present on site.*

ii. Closed Concerns

Concern Ref No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required
001	ESCO	12/05/2023		Failure to implement dust suppression measures	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	Open		

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001

June 2023



Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility, Eastern Cape

June 2023

OPS_007_v001

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries, and the Environment: Compliance Monitoring

DATED:

June 2023

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS	2
TABLE OF FIGURES	3
1 INTRODUCTION	5
2 GENERAL	6
2.1 General Outstanding matters	6
2.2 Audits (Internal & External)	7
3 WASTE MANAGEMENT	8
3.1 Domestic/ General Waste	8
3.2 Hazardous waste	10
3.3 Wastewater	10
4 PROTECTIVE MEASURES	11
4.1 General	11
4.2 Dust Control	11
4.3 Hazardous Substance	12
5 ENVIRONMENTAL CONSERVATION	14
5.1 Conservation of Flora	14
5.2 Conservation of Fauna	14
5.3 Water Management	14
5.4 Soil Management	15
6 INFRASTRUCTURE MANAGEMENT	15
6.1 Access Roads	15
6.2 Fences, Gates, and Barricading	15
6.3 Buildings and Structures	15
7 SOCIAL	16

8	ENVIRONMENTAL AWARENESS AND TRAINING	16
9	HERITAGE.....	16
10	NCRS & DEFECTS.....	17
11	REHABILITATION.....	17
12	INCIDENTS AND ACCIDENTS	17
13	MEETINGS AND OTHER CORRESPONDENCE	18
	ANNEXURE A – CONCERNS REGISTER.....	20
i.	Open Concerns.....	20
ii.	Closed Concerns	20
	ANNEXURE B – NCR REGISTER	21
	ANNEXURE C – INCIDENTS REGISTER	22

TABLE OF FIGURES

Figure 1:	Waste collection skips with signage to indicate permitted waste types.	8
Figure 2:	Waste disposal slips readily available on site.	9
Figure 3:	Wastewater disposal slips readily available on site.....	10
Figure 4:	Measure being implemented to assist in drainage at the laydown area.....	11
Figure 5:	A hazardous substance storage area under lock and key.	12
Figure 6:	Extra drip trays for use on site.	13

ABBREVIATIONS

DEA:	Department of Forestry, Fisheries, and the Environment
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
ESCO:	Environmental Site Compliance Officer
EIA:	Environmental Impact Assessment
EMPr:	Environmental Management Programme
EO:	Contractors Environmental Officer
EO:	Contractors Environmental Officer
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
OHPL:	Overhead Power Line
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

OPS_007_v001

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd ("**NCC**") was appointed by Wolf Wind Farm (RF) (Pty) Ltd ("**Wolf**") to provide a suitably experienced independent Environmental Control Officer ("**ECO**") for the construction phase of 183MW Wolf Wind Energy Facility ("**WEF**") and associated infrastructure located due south of the town of Jansenville within the Eastern Cape.

On completion the facility will consist of the construction of 17 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building, and internal access roads.

In addition to the construction of wind turbines, connecting overhead powerline ("**OHPL**") and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in Annexure D the Environmental Authorisation ("**EA**") are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme ("**EMPr**").

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations
 - i. 14/12/16/3/3/1/2515 (89km OHPL: Wolf-Grassridge)
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation)
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme.
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses, and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

"The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO."

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMP lies with the Project and Project Manager, while the Department of Forestry, Fisheries, and the Environment (“**DFFE**”) Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL

Works commenced, or continued, during this reporting period included the following activities:

- Blasting and excavations.
- Botanical search & rescue of the OHPL.
- Bulk earth works including clearing and grub, cut to fill and cut to stockpile.
- Clearing and establishment of site laydown area/s.
- Stormwater management on existing access road.
- Surveying and pegging of the IPP substation and associated infrastructure.
- Surveying and pegging of the OHPL.

Consistent rains were experienced in the days prior to the ECO site visit on the 27th of June 2023.

No site activities were conducted during the ECO site visit due to inaccessibility as a result of rains. Only the site offices and part of the main laydown area were inspected.

This report covers the period to end of June 2023.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers.

The register contains the number of concerns noted and distinguishes between the numbers of outstanding or open items and closed-out items.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There are **no** outstanding matters for this reporting period.

Find the concerns register attached as [Annexure A](#).

2.2 Audits (Internal & External)

Internal audits are conducted monthly by the ESCO and are available on request.

All external audit results will be included in this section as and when conducted.

A summary and any findings of concern will be recorded in this section. Audit tables are available on request.

An external water use licence audit was conducted on 28th June 2023, the result thereof will be made available in the next month's report.

The ECO conducted a quarterly audit which the result will be made available in the next month's report.

3 WASTE MANAGEMENT

Wolf will make provision for waste avoidance, minimisation, and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.

3.1 Domestic/ General Waste

A designated waste area is present at the contractor site offices which will store waste temporarily prior to being transferred to the relevant waste facility.

The designated waste area located at the site offices with skips being labelled for the relevant waste types and was in good working order, neat and clean.



Figure 1: Waste collection skips with signage to indicate permitted waste types.

An agreement is in place with a service provider to service on site skips. General waste will be disposed at an approved landfill site. An agreement letter with the municipality/landfill must be put in place and a copy of the facilities licence shall be kept on record.

Monthly figures are recorded by the contractor's Environmental Officer (**EO**) on a waste register and provided to the Environmental Site Compliance Officer (**ESCO**) which in turn is provided to the ECO.

A waste disposal register is to be kept on file for record purposes.

12m³ of general waste was disposed of during this reporting period.

117 kg of recyclable material as collected by a recycling service provider.

ORICOL ENVIRONMENTAL SERVICES (Pty) Ltd
Reg. No.: 2007/023691/07 • Val. Reg. No. 4190197380

WASTE MANIFEST DOCUMENT
PORT ELIZABETH DEPOT

No.: 247797

Date: 24/06/2023

Waste Generators Details	Transporters Details	Disposal Site / Waste Manager / Consignee Details
Site Name: Concor • Wolf Wind Farm	Transporters Name: JXY 894 EC	Site Name: Arlington Waste Disposal - SWP
Physical Address: Wolf Wind Farm 15km west Wolfefontein Wolfefontein	Physical Address:	Physical Address: Victoria Drive Walmer
Postal Address:	Postal Address: N/A	Contact Details: Vula
Contact Details: Kevin Booth 079 078 1130	Contact Details:	Waste management facility license number: 16/2/7/MC09/011
Fax Number:	Fleet Number: JXY 894 EC	WIS number:
Email Address: Kevin.Booth@oricol.co.za	Driver Name: Sikumbuso M. Mofosi	
Order Number: 1458068-QF-138		

Waste Details			
Process that generated the waste:	N/A	Container Size:	6m3 SWP PE
SANS 10234 Class Number:		Number of:	2 Empty
Hazchem decals Required: UN Number		Weight:	1
PPE to be worn:	Standard	Type of treatment/ Disposal method:	Disposal of waste to landfill eg nonhazardous landfill
Waste Type: GW10.01, Commercial and Industrial Waste - General Non Comp			

Notes:
2 x skip loaded 6m3 General waste 2 bins to be empty
Quote Ref No: 21521

Three Signatures constitutes a safe disposal.	Name:	Signature:	Date collected/ received:
Generators declaration (Content of the consignment is fully and accurately described, classified, packed, marked and labelled, and in all respects in proper condition for transportation in accordance with the applicable laws and regulations)	Kevin Booth		24/06/2023
Transporters acknowledgement of receipt of the waste	Sikumbuso M. Mofosi		24/06/23
Disposal site/ Consignee/ Waste managers acknowledgement of receipt of materials			

SABS SABS SABS
ISO 14001 OHSAS 18001 ISO 9001

ORICOL
ENVIRONMENTAL SERVICES

Figure 2: Waste disposal slips readily available on site.

3.2 Hazardous waste

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO.

If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

One hazardous skip is readily available on site however no hazardous waste figures were recorded for disposal for this reporting period as it was reported that no waste was disposed of.

3.3 Wastewater

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO.

Mobile portable toilets are made available on site and are serviced weekly. Disposal and transport permits are available on site. Wastewater is disposed of at Fishwater flats disposal facility.

The site office is connected to conservancy tanks and are serviced by a service provider who disposes of the wastewater at the Jansenville wastewater treatment facility.

Record of disposal is kept on record and made available on request.

An estimated **11 800L** of wastewater was removed off site during the reporting period.

OPS_007_v001



Take 25,5 km to Site & Back

TOILET HIRE EAST CAPE DELIVERY COLLECTION SERVICE NOTE
 30548 Phone: 041 431 1798 Email: admin@toilethire.co.za Address: 8 Burman Rd, Deal Party

Address for Delivery - Collection - Service: CONCOR WINDMILL FARM

NUMBER OF UNITS: 5 EF (11, 18, 29, 50, 52)

D: C: S: (S circled)

Supplied to you: Toilet Roll(s) 10 Chemical 5

I confirm that the above has been carried out to my satisfaction.

Date: 14/06/2023 Signature: [Signature] Designation: [Signature]

Were you satisfied with the service? ☒ Y ☐ N TIME IN: 09:12 TIME OUT: 12:30

TOILET HIRE EAST CAPE DELIVERY COLLECTION SERVICE NOTE
 30593 Phone: 041 431 1798 Email: admin@toilethire.co.za Address: 8 Burman Rd, Deal Party

Address for Delivery - Collection - Service: CONCOR WINDMILL FARM

NUMBER OF UNITS: 5 EF (11, 18, 29, 50, 52)

D: C: S: (S circled)

Supplied to you: Toilet Roll(s) 10 Chemical 5

I confirm that the above has been carried out to my satisfaction.

Date: 21/06/2023 Signature: [Signature] Designation: FORERMAN

Were you satisfied with the service? ☒ Y ☐ N TIME IN: 09:19 TIME OUT: 11:37

Figure 3: Wastewater disposal slips readily available on site.

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

Measures are being implemented to alleviate excess stormwater on site including installing large rock material to aid with water filtration.



Figure 4: Measure being implemented to assist in drainage at the laydown area.

4.2 Dust Control

Due to heavy rains prior to site visit no dust was observed on site therefore no dust suppression measures were necessary.

A concern was raised by the Project Construction Manager and ESCO regarded dust suppression, additional suppression measures were initiated.

Actions were implemented by the contractor to close out the open concern and NCR.

4.3 Hazardous Substance

The 23 000-litre bunded bulk fuel storage container (empty) present on site has not been commissioned as bunding has not been completed due to inclement weather.

A 10 000-litre mobile fuel tanker is present on site to assist with refuelling on site.

Spill kits are made available on site and are readily available to assist in mitigating against any degradation and clean any chemical spills when required.

A hazardous substance storage area was installed during this reporting period. The storage area is bunded, caged and under lock and key and located at the site offices.

Custom built drip trays were ordered and delivered to site by the contractor, drips trays were constructed to offer better durability.

Drip trays have been distributed to each vehicle operator to be kept with dedicated vehicles for use.

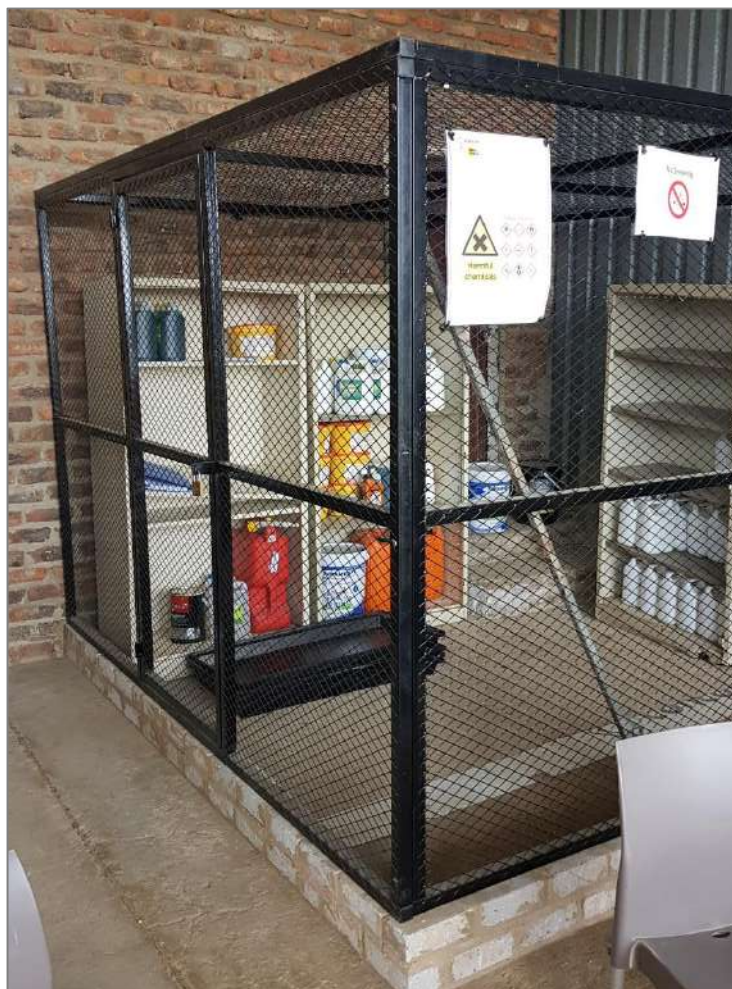


Figure 5: A hazardous substance storage area under lock and key.



Figure 6: Extra drip trays for use on site.

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

All S&R operations are conducted as per the Department of Economic Development, Environmental Affairs and Tourism ("DEDEAT") ordinary permit conditions¹.

Any alien invasive species removed from the working area are stored in a dedicated area within the site laydown to dry and die out. The contractor intends to propose the burning of alien invasive cuttings on site to reduce the risk of spreading seed during transit. Any burning would be conducted under strict conditions and procedures as approved by the ESCO and review by the ECO. No procedures have been provided to the ECO for review.

Search and rescue operations were completed along the OHPL between Wolf substation and Skilpad substation during this reporting period.

Search and rescue operations continued along the OHPL between Skilpad substation and Grassridge substation between towers CR02-CR90 and CR173-CR206.

Two species of concern were identified *Rhombophyllum rhomboideum* (Endangered) and *Euphorbia albipollinifera* (near threatened) by the botanical specialist. All identified species are relocated off the construction footprint on the same property.

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping, or killing of animals are allowed. All animal mortalities must be recorded and reported.

No mortalities were recorded during this reporting period.

5.3 Water Management

Water for use on site must be sourced from an authorised water source and quantities must be monitored accordingly. The ECO has requested that water quality results and interpretation thereof are provided.

¹ Permit No: TO-202206000001989. Expiring 24th June 2023

Water is being sourced by the contractor from the local wastewater treatment facility and is being utilized for in dust suppression. Records of all water use activities are noted in the water use register. **266 000L** of water was sourced from the Municipality during this reporting period.

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.

Stockpiles of soil material were observed as being kept separate.

Erosion and stormwater measures must be put in place and maintained to reduce loss of topsoil and prevent erosion.

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

Activities continues on the main internal access road and included the stripping of topsoil, mulching of vegetation, removal of rock, shaping of the roadbed, cut to fill activities and blasting.

6.2 Fences, Gates, and Barricading

No fencing and barricading issues have been during this reporting period. Any fences that have been removed due to the access road have had concertina fencing/gates installed until such time permanent gates are installed.

6.3 Buildings and Structures

An existing farm building is being utilized as the main site offices for the project, additional office containers have been brought onto site to accommodate additional staff.

Temporary toilets (temporary for the duration of the project) have been installed and will be connected to the in-situ conservancy tanks. Conservancy tanks will be serviced by a dedicated service provider.

7 SOCIAL

Any complaints from the general public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

All registered complaints will be provided to the ECO.

For this reporting period, no complaints have been reported to the ECO.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks are conducted by the contractors where applicable.

The EO is to keep records of all staff which have undertaken induction training.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to and heritage specialist and the Relevant Heritage authority.

A number of marked and unmarked graves which were identified between poles 17 and 18 of the OHPL but were not directly impacted upon by the project. Although there was no perceived, direct impact the Project team, after consultation with the landowner, and heritage specialist elected to reposition poles 17 and 18 so that the line would not pass over the identified area. The line will be redirected within the provided for corridor.

It has been confirmed that the rerouting of the line will not impact upon the identified graves.

10 NCRS & DEFECTS

No Defects were issued by the ESCO to the Contractor during this reporting period.

No NCRs were issued by the ESCO to the Contractor during this reporting period.

An NCR which was issued during the previous reporting period has since been closed out.

To date, no NCRs were issued to the project by the ECO.

No NCRs remained open during this reporting period.

Open NCRs	Closed NCRs
0	1

Table 1: NCR Status (ECO & ESCO issued)

Find attached NCR register as [Annexure B](#).

11 REHABILITATION

As different phases of the project come to an end where no further construction is envisaged, rehabilitation measures will be implemented.

To date no rehabilitation measures have been necessary.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

No environmental incidents were reported during this reporting period. Find the incidents register attached as [Annexure C](#)

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO conducted the monthly site visit on the 27th of June 2023 with observations captured in this monthly environmental performance report for the month of June.

A monthly ECO compliance report for the May period was submitted to the Department on the 19th of June 2023.

Receipt acknowledgment from the Department was received on the 21st of June.

PREPARED BY:

A handwritten signature in blue ink, appearing to read 'Nick Gates', is positioned below the 'PREPARED BY:' heading.

Nick Gates

Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

OPS_007_v001

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status

*The concerns register is only updated once the ECO is present on site.

ii. Closed Concerns

No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date
001	25 th April 2023	Discovery of marked and unmarked graves along the 89km OHPL route.	17 th May 2023	Contact made with heritage specialist. Portion of OHPL which was traversing the grave site area were relocated withing the assessed corridor to avoid any potential conflict.	Discovered graves will not be traversed during construction and any disturbance will potentially be avoided.	End of June 2023
002	12 th May 2023	Excessive dust and failure to implement dust suppression measures.	Immediately	An additional water source was identified to assist with dust suppression measures. An ADT truck is located permanently on the mountain and conducts dust mitigation on the turbine sites, the access road and internal roads. The second water truck moves on the R75 to the greywater site in Jansenville.	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	14 th June 2023

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required
001	ESCO	12/05/2023	Immediately	Failure to implement dust suppression measures	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	Closed	14 th June 2023	None

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001

July 2023



Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility, Eastern Cape
July 2023

OPS_007_v001

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries, and the Environment: Compliance Monitoring

DATED:

July 2023

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
TABLE OF FIGURES	3
1 INTRODUCTION.....	5
2 GENERAL.....	6
2.1 General Outstanding matters.....	6
2.2 Audits (Internal & External).....	7
3 WASTE MANAGEMENT	8
3.1 Domestic/ General Waste.....	8
3.2 Hazardous waste.....	10
3.3 Wastewater.....	10
4 PROTECTIVE MEASURES	11
4.1 General.....	11
4.2 Dust Control	11
4.3 Hazardous Substance.....	11
5 ENVIRONMENTAL CONSERVATION.....	13
5.1 Conservation of Flora	13
5.2 Conservation of Fauna	13
5.3 Water Management.....	13
5.4 Soil Management	14
6 INFRASTRUCTURE MANAGEMENT.....	14
6.1 Access Roads.....	14
6.2 Fences, Gates, and Barricading.....	14
6.3 Buildings and Structures	15
7 SOCIAL	15
8 ENVIRONMENTAL AWARENESS AND TRAINING	15
9 HERITAGE.....	15

10	NCRS & DEFECTS.....	16
11	REHABILITATION	16
12	INCIDENTS AND ACCIDENTS	16
13	MEETINGS AND OTHER CORRESPONDENCE	17
	ANNEXURE A – CONCERNS REGISTER	18
i.	Open Concerns.....	18
ii.	Closed Concerns	18
	ANNEXURE B – NCR REGISTER	19
	ANNEXURE C – INCIDENTS REGISTER.....	20

TABLE OF FIGURES

Figure 1:	Waste collection sacks have been placed on site for all recyclable waste types.	8
Figure 2:	Access to waste skip impeded.....	9
Figure 3:	Spill kit and drip trays on site.	12
Figure 4:	Self bunded fuel storage with additional measure.....	12
Figure 5:	Widening of main access point for WEF at R75.	14

ABBREVIATIONS

DEA:	Department of Forestry, Fisheries, and the Environment
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
ESCO:	Environmental Site Compliance Officer
EIA:	Environmental Impact Assessment
EMPr:	Environmental Management Programme
EO:	Contractors Environmental Officer
EO:	Contractors Environmental Officer
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
OHPL:	Overhead Power Line
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

OPS_007_v001

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd ("**NCC**") was appointed by Wolf Wind Farm (RF) (Pty) Ltd ("**Wolf**") to provide a suitably experienced independent Environmental Control Officer ("**ECO**") for the construction phase of 183MW Wolf Wind Energy Facility ("**WEF**") and associated infrastructure located due south of the town of Jansenville within the Eastern Cape.

On completion the facility will consist of the construction of 17 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building, and internal access roads.

In addition to the construction of wind turbines, connecting overhead powerline ("**OHPL**") and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in Annexure D the Environmental Authorisation ("**EA**") are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme ("**EMPr**").

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations
 - i. 14/12/16/3/3/1/2515 (89km OHPL: Wolf-Grassridge)
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation)
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme.
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses, and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

"The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO."

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMPr lies with the Project and Project Manager, while the Department of Forestry, Fisheries, and the Environment (“**DFFE**”) Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL

Works commenced, or continued, during this reporting period included the following activities:

- Base Excavations
- Blasting and excavations.
- Bulk earth works including clearing and grub, cut to fill and cut to stockpile.
- Bush clearing for OHPL.
- Crushing
- Drilling & Blasting
- Fencing installation
- Preparation of Access Routes
- Search and rescue on the OHPL sections
- Soil nominations
- Surveying and pegging of the OHPL.

This report covers the period to end of July 2023.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers.

The register contains the number of concerns noted and distinguishes between the numbers of outstanding or open items and closed-out items.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There are **no** outstanding matters for this reporting period.

Find the concerns register attached as [Annexure A](#).

2.2 Audits (Internal & External)

Internal audits are conducted monthly by the ESCO and are available on request.

All external audit results will be included in this section as and when conducted.

A summary and any findings of concern will be recorded in this section. Audit tables are available on request.

Results of the external water use licence audit conducted on 28th June 2023 are still outstanding and the result will be made available in this report when available.

The ECO conducted a quarterly audit in the month of June, no con-compliant conditions were identified, any issues that were identified on site during ECO inspections have been addressed within a reasonable time frame and reported back to the ESCO and ECO.

An internal ESMS audit was conducted on the 5th of July 2023.

3 WASTE MANAGEMENT

Wolf will make provision for waste avoidance, minimisation, and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.

3.1 Domestic/ General Waste

A designated waste area is present at the contractor site offices which will store waste temporarily prior to being transferred to the relevant waste facility.

The designated waste area located at the site offices with skips being labelled for the relevant waste types and was in good working order, neat and clean.



Figure 1: Waste collection sacks have been placed on site for all recyclable waste types.

An agreement is in place with a service provider to service on site skips. General waste will be disposed at an approved landfill site. An agreement letter with the municipality/landfill must be put in place and a copy of the facilities licence shall be kept on record.

Monthly figures are recorded by the contractor's Environmental Officer (**EO**) on a waste register and provided to the Environmental Site Compliance Officer (**ESCO**) which in turn is provided to the ECO.

A waste disposal register is to be kept on file for record purposes.

0m³ of general waste was disposed of during this reporting period.

80 kg of recyclable material as collected by a recycling service provider.

The contractor must always ensure that access to the waste skips area unimpeded with the exception of any trucks having to remove waste off site.



Figure 2: Access to waste skip impeded.

3.2 Hazardous waste

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO.

If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

One hazardous skip is readily available on site however no hazardous waste figures were recorded for disposal for this reporting period as it was reported that no waste was disposed of.

3.3 Wastewater

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO.

Mobile portable toilets are made available on site and are serviced weekly. Disposal and transport permits are available on site. Wastewater is disposed of at Fishwater flats disposal facility.

The site office is connected to conservancy tanks and are serviced by a service provider who disposes of the wastewater at the Jansenville wastewater treatment facility.

Record of disposal is kept on record and made available on request.

An estimated **3 120L** of wastewater was removed off site during the reporting period.

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

Measures continue to be implemented to alleviate excess stormwater on site including installing rock material to aid with water filtration and the cutting of v-drains.

General measures continue to be implemented on site such as the use of drip trays, bunding, stormwater control measures, etc.

4.2 Dust Control

No nuisance dust was observed on site, dust suppression measures continue in areas which pose potential dust nuisance.

4.3 Hazardous Substance

A 23 000-litre self-bunded bulk fuel storage container present on site has been commissioned, additional bunding has been put in place to assist with refuelling. This consists of plastic sheet lining and brick wall bund.

Trailer fuel bowzers are present on site to assist with refuelling in the working areas.

Spill kits are made available on site and are readily available to assist in mitigating against any degradation and clean any chemical spills when required.

The storage area located at the site offices appears neat and clean.

Drip trays continue to be distributed to each vehicle operator to be kept with dedicated vehicles for use.



Figure 3: Spill kit and drip trays on site.



Figure 4: Self banded fuel storage with additional measure.

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

All S&R operations are conducted as per the Department of Economic Development, Environmental Affairs and Tourism ("DEDEAT") ordinary permit conditions¹.

Any alien invasive species removed from the working area are stored in a dedicated area on site to dry and die out. The contractor intends to propose the burning of alien invasive cuttings on site to reduce the risk of spreading seed during transit. Any burning would be conducted under strict conditions and procedures as approved by the ESCO and review by the ECO.

No procedures have been provided to the ECO for review.

Search and rescue operations were completed on the OHPL section between Skilpad substation and Grassridge substation (**CR 131 to CR-150**) *Strelitzia juncea* and *Cycads* present in the area.

Rhombophyllum rhomboideum were relocated from the footprint between **CR 48 to CR 55**.

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping, or killing of animals are allowed. All animal mortalities must be recorded and reported.

No mortalities were recorded during this reporting period.

5.3 Water Management

Water for use on site must be sourced from an authorised water source and quantities must be monitored accordingly. Water is being sourced by the contractor from the local wastewater treatment facility and is being utilized for in dust suppression.

Records of all water use activities are noted in the water use register.

266 000L of water was sourced from the Municipality during this reporting period.

A General authorisation (GA) was obtained for the abstraction of groundwater from an existing borehole (**33°28'04.73"S, 24°99'36.75"E**). A temporary water holding tank was installed during this reporting period. No water was abstracted from the borehole during this period. Abstraction for this period: 0m³.

¹ Permit No: TO-202206000001989. Expiring 24th June 2023

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.

Stockpiles of soil material were observed as being kept separate.

Erosion and stormwater measures have been put in place and should be maintained to reduce loss of topsoil and prevent erosion.

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

Earthwork activities continue on the main internal access road which includes the stripping of topsoil, mulching of vegetation, removal of rock, shaping of the roadbed, cut to fill activities and blasting.

Work commenced on the main access point from the R75.



Figure 5: Widening of main access point for WEF at R75.

6.2 Fences, Gates, and Barricading

No fencing and barricading issues have been during this reporting period. Fencing has been installed at the entrance to the laydown areas access from the R75. Concertina gates are installed where fences have been cut for access for construction activities until such time that permanent gates will be installed.

6.3 Buildings and Structures

An existing farm building is being utilized as the main site offices for the project, additional office containers have been brought onto site to accommodate additional staff.

Temporary toilets (temporary for the duration of the project) have been installed and will be connected to the in-situ conservancy tanks. Conservancy tanks will be serviced by a dedicated service provider.

7 SOCIAL

Any complaints from the general public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

All registered complaints will be provided to the ECO.

For this reporting period, no complaints have been reported to the ECO.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks are conducted by the contractors where applicable.

Topics for this period included soil management and endangered plant species.

The EO is to keep records of all staff which have undertaken induction training.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to and heritage specialist and the Relevant Heritage authority.

No activities impacting upon heritage sites were reported during this period.

10 NCRS & DEFECTS

No Defects were issued by the ESCO to the Contractor during this reporting period.

One NCR was issued by the ESCO to the Contractor during this reporting period, which was in relation to the compaction of topsoil. An investigation and corrective actions were in progress at the time of writing.

To date, no NCRs were issued to the project by the ECO.

One NCRs remained open during this reporting period.

Open NCRs	Closed NCRs
1	1

Table 1: NCR Status (ECO & ESCO issued)

Find attached NCR register as [Annexure B](#).

11 REHABILITATION

As different phases of the project come to an end where no further construction is envisaged, rehabilitation measures will be implemented.

To date no rehabilitation measures have been necessary.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

No environmental incidents or moderate to high levels of spills were reported during this reporting period.

Find the incidents register attached as [Annexure C](#)

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO conducted the monthly site visit on the 26th of July 2023 with observations captured in this monthly environmental performance report for the month of July.

A monthly ECO compliance report for the June period was submitted to the Department on the 26th of July 2023.

Receipt acknowledgment from the Department was received on the 27th of July.

PREPARED BY:



Nick Gates

Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status

*The concerns register is only updated once the ECO is present on site.

ii. Closed Concerns

No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date
001	25 th April 2023	Discovery of marked and unmarked graves along the 89km OHPL route.	17 th May 2023	Contact made with heritage specialist. Portion of OHPL which was traversing the grave site area were relocated withing the assessed corridor to avoid any potential conflict.	Discovered graves will not be traversed during construction and any disturbance will potentially be avoided.	End of June 2023
002	12 th May 2023	Excessive dust and failure to implement dust suppression measures.	Immediately	An additional water source was identified to assist with dust suppression measures. An ADT truck is located permanently on the mountain and conducts dust mitigation on the turbine sites, the access road and internal roads. The second water truck moves on the R75 to the greywater site in Jansenville.	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	14 th June 2023

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required
001	ESCO	12/05/2023	Immediately	Failure to implement dust suppression measures	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	Closed	14 th June 2023	None
002	ESCO	26/07/2023	Non provided	Compaction of soil stockpiles	To be determined	Open	-	-

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001

August 2023



Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility, Eastern Cape

Aug 2023

OPS_007_v001

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries, and the Environment: Compliance Monitoring

DATED:

Aug 2023

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
TABLE OF FIGURES	3
1 INTRODUCTION	5
2 GENERAL	6
2.1 General Outstanding matters	6
2.2 Audits (Internal & External).....	7
3 WASTE MANAGEMENT	8
3.1 Domestic/ General Waste	8
3.2 Hazardous waste	10
3.3 Wastewater	10
4 PROTECTIVE MEASURES.....	11
4.1 General	11
4.2 Dust Control.....	11
4.3 Hazardous Substance	11
5 ENVIRONMENTAL CONSERVATION	12
5.1 Conservation of Flora.....	12
5.2 Conservation of Fauna.....	12
5.3 Water Management.....	12
5.4 Soil Management	13
6 INFRASTRUCTURE MANAGEMENT	13
6.1 Access Roads	13
6.2 Fences, Gates, and Barricading.....	14
6.3 Buildings and Structures	14
7 SOCIAL.....	15

8	ENVIRONMENTAL AWARENESS AND TRAINING	16
9	HERITAGE.....	16
10	NCRS & DEFECTS.....	16
11	REHABILITATION	17
12	INCIDENTS AND ACCIDENTS.....	17
13	MEETINGS AND OTHER CORRESPONDENCE.....	17
	ANNEXURE A – CONCERNS REGISTER.....	19
i.	Open Concerns.....	19
ii.	Closed Concerns	19
	ANNEXURE B – NCR REGISTER	20
	ANNEXURE C – INCIDENTS REGISTER	21

TABLE OF FIGURES

Figure 1:	Waste management area neat and clean.....	8
Figure 2:	Vehicles obstructing access to skips (Bottom); Dedicated parking area (Top).....	9
Figure 3:	Mobile toilets tied down.....	10
Figure 4:	V Drain installed for water run off management.....	13
Figure 5:	Mobile batch plant	14
Figure 6:	Internal grievance box.....	15

ABBREVIATIONS

DEA:	Department of Forestry, Fisheries, and the Environment
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
ESCO:	Environmental Site Compliance Officer
EIA:	Environmental Impact Assessment
EMPr:	Environmental Management Programme
EO:	Contractors Environmental Officer
EO:	Contractors Environmental Officer
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
OHPL:	Overhead Power Line
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

OPS_007_v001

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd ("**NCC**") was appointed by Wolf Wind Farm (RF) (Pty) Ltd ("**Wolf**") to provide a suitably experienced independent Environmental Control Officer ("**ECO**") for the construction phase of 183MW Wolf Wind Energy Facility ("**WEF**") and associated infrastructure located due south of the town of Jansenville within the Eastern Cape.

On completion the facility will consist of the construction of 17 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building, and internal access roads.

In addition to the construction of wind turbines, connecting overhead powerline ("**OHPL**") and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in Annexure D the Environmental Authorisation ("**EA**") are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme ("**EMPr**").

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations
 - i. 14/12/16/3/3/1/2515 (89km OHPL: Wolf-Grassridge)
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation)
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme.
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses, and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

"The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO."

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMPr lies with the Project and Project Manager, while the Department of Forestry, Fisheries, and the Environment (“**DFFE**”) Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL

Works commenced, or continued, during this reporting period included the following activities:

- Base excavations
- Bulk earth works including clearing and grub, cut to fill and cut to stockpile.
- Bush clearing for OHPL.
- Crushing
- Drilling & Blasting
- Fencing installation
- Preparation of Access Routes
- Search and rescue on the OHPL sections
- Soil nominations
- Stormwater infrastructure
- Surveying and pegging of the OHPL.
- Trenching operations

This report covers the period to end of August 2023.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers.

The register contains the number of concerns noted and distinguishes between the numbers of outstanding or open items and closed-out items.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There are **no** outstanding matters for this reporting period.

Find the concerns register attached as [Annexure A](#).

2.2 Audits (Internal & External)

Internal audits are conducted monthly by the ESCO and are available on request.

All external audit results will be included in this section as and when conducted.

A summary and any findings of concern will be recorded in this section. Audit tables are available on request.

Results of the external water use licence audit conducted on 28th June 2023 are still outstanding and the result will be made available in this report when available.

No ECO or other audits were conducted during August.

3 WASTE MANAGEMENT

Wolf will make provision for waste avoidance, minimisation, and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.

3.1 Domestic/ General Waste

A designated waste area is present at the contractor site offices which will store waste temporarily prior to being transferred to the relevant waste facility.

A designated waste area is located at the site offices which consists of two (2) skips labelled for the general waste. The waste area was observed in good working order, neat and clean.



Figure 1: Waste management area neat and clean.

An agreement is in place with a service provider to service on site skips. General waste is disposed at an approved landfill site. An agreement letter with the municipality/landfill must be put in place and a copy of the facilities licence shall be kept on record.

Monthly figures are recorded by the contractor's Environmental Officer (**EO**) on a waste register and provided to the Environmental Site Compliance Officer (**ESCO**) which in turn is provided to the ECO.

A waste disposal register is kept on file for record purposes.

0m³ of general waste was disposed of during this reporting period.

0 kg of recyclable material was collected by a recycling service provider during this reporting period.

During the July site visit people transporters were observed to be obstructing access to the waste management area. The Contractor set aside and established a dedicated parking area for vehicles to ensure vehicles do not obstruct access to the waste management area.



Figure 2: Vehicles obstructing access to skips (Bottom); Dedicated parking area (Top).

3.2 Hazardous waste

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO.

If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

One hazardous skip is readily available on site however no hazardous waste figures were recorded for disposal for this reporting period as it was reported that no waste was disposed of.

3.3 Wastewater

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO.

Mobile portable toilets are made available on site and are serviced weekly. Disposal and transport permits are available on site. Wastewater is disposed of at Fishwater flats disposal facility. The ESCO has requested that additional mobile toilets be provided for the working area. Mobile toilets are serviced once a week, or as and when required.



Figure 3: Mobile toilets tied down.

The site office is connected to conservancy tanks and are serviced by a service provider who disposes of the wastewater at the Jansenville wastewater treatment facility.

Record of disposal is kept on record and made available on request.

An estimated **11 000L** of wastewater was removed off site during the reporting period.

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

Measures continue to be implemented to alleviate excess stormwater on site including installing rock material to aid with water filtration and the cutting of v-drains.

General measures continue to be implemented on site such as the use of drip trays, bunding, stormwater control measures, etc.

4.2 Dust Control

No nuisance dust was observed on site, dust suppression measures continue to be implemented in areas which pose potential dust nuisance.

4.3 Hazardous Substance

A **23 000**-litre self-bunded bulk fuel storage container present on site has been commissioned, additional bunding has been put in place to assist with refuelling. This consists of plastic sheet lining and brick wall bund.

Trailer fuel bowsers are present on site to assist with refuelling in the working areas.

Spill kits are made available on site and are readily available to assist in mitigating against any degradation and clean any chemical spills when required. An external service provider is on call if any major spills occur.

The storage area located at the site offices appears neat and clean.

Drip trays continue to be distributed to each vehicle operator to be kept with dedicated vehicles for use.

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

All Search & Rescue ("**S&R**") operations are conducted as per the Department of Economic Development, Environmental Affairs and Tourism ("**DEDEAT**") ordinary permit conditions¹.

Any alien invasive species removed from the working area are stored in a dedicated area on site to dry and die out. The contractor intends to propose the burning of alien invasive cuttings on site to reduce the risk of spreading seed during transit. Any burning would be conducted under strict conditions and procedures as approved by the ESCO and review by the ECO.

S&R operations were completed on the OHPL section during this period.

The Contractor has drafted a chance find procedure whereby S&R activities to relocate species from the construction footprint are implemented as and when required.

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping, or killing of animals are allowed. All animal mortalities must be recorded and reported.

No mortalities were recorded during this reporting period.

5.3 Water Management

Water for use on site must be sourced from an authorised water source and quantities must be monitored accordingly. Water is being sourced by the contractor from the local wastewater treatment facility and is being utilized for in dust suppression.

Records of all water use activities are noted in the water use register.

994 000L of water was sourced from the Municipality during this reporting period.

A General authorisation (GA) was obtained for the abstraction of groundwater from an existing borehole (**33°28'04.73"S, 24°99'36.75"E**). A temporary water holding tank was installed during this reporting period. No water was abstracted from the borehole during this period.

Abstraction for this period: 1898m³.

¹ Permit No: TO-202206000001989. Expiring 24th June 2023

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.

Stockpiles of soil material were observed as being kept separate.

Erosion and stormwater measures have been put in place and should be maintained to reduce loss of topsoil and prevent erosion.

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

Earthwork activities continue on the main internal access road which includes the stripping of topsoil, mulching of vegetation, removal of rock, shaping of the roadbed, cut to fill activities and blasting.

V drains have been installed adjacent to internal access roads.



Figure 4: V Drain installed for water run off management.

6.2 Fences, Gates, and Barricading

No fencing and barricading issues have been during this reporting period. Concertina gates are installed where fences have been cut for access for construction activities until such time that permanent gates will be installed.

Barricading is erected around open excavations on site. Daily inspections have been requested by the ESCO on site.

6.3 Buildings and Structures

An existing farm building is being utilized as the main site offices for the project, additional office containers have been brought onto site to accommodate additional staff.

A mobile batch plant is being established adjacent to the site offices.



Figure 5: Mobile batch plant

7 SOCIAL

Any complaints from the general public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

A box for receiving internal grievances was observed on site. This allows project staff to bring to the attention of the project manager any particular comments and or concerns.



Figure 6: Internal grievance box

All registered complaints will be provided to the ECO.

For this reporting period, no complaints have been reported to the ECO.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks are conducted by the contractors where applicable.

Topics for this period included topsoil management and endangered plant species.

The EO is to keep records of all staff which have undertaken induction training.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to and heritage specialist and the Relevant Heritage authority.

No activities impacting upon heritage sites were reported during this period.

10 NCRS & DEFECTS

No Defects were issued by the ESCO to the Contractor during this reporting period.

No NCRs were issued by the ESCO to the Contractor during this reporting period.

To date, no NCRs were issued to the project by the ECO.

One NCRs was closed out during this reporting period.

Open NCRs	Closed NCRs
0	2

Table 1: NCR Status (ECO & ESCO issued)

Find attached NCR register as [Annexure B](#).

11 REHABILITATION

As different phases of the project come to an end where no further construction is envisaged, rehabilitation measures will be implemented.

To date no rehabilitation measures have been necessary.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

No environmental incidents or moderate to high levels of spills were reported during this reporting period. Find the incidents register attached as [Annexure C](#)

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO conducted the monthly site visit on the 22nd of August 2023 with observations captured in this monthly environmental performance report for the month of August.

A monthly ECO compliance report for the July period was not submitted to the Department since the July report , the August report will be sent together with this report.

PREPARED BY:

A handwritten signature in blue ink, appearing to be 'Nick Gates', is positioned below the 'PREPARED BY:' heading.

Nick Gates

Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

OPS_007_v001

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status

*The concerns register is only updated once the ECO is present on site.

ii. Closed Concerns

No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date
001	25 th April 2023	Discovery of marked and unmarked graves along the 89km OHPL route.	17 th May 2023	Contact made with heritage specialist. Portion of OHPL which was traversing the grave site area were relocated withing the assessed corridor to avoid any potential conflict.	Discovered graves will not be traversed during construction and any disturbance will potentially be avoided.	End of June 2023
002	12 th May 2023	Excessive dust and failure to implement dust suppression measures.	Immediately	An additional water source was identified to assist with dust suppression measures. An ADT truck is located permanently on the mountain and conducts dust mitigation on the turbine sites, the access road and internal roads. The second water truck moves on the R75 to the greywater site in Jansenville.	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	14 th June 2023

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required
001	ESCO	12/05/2023	Immediately	Failure to implement dust suppression measures	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	Closed	14 th June 2023	None
002	ESCO	26/07/2023	None provided	Compaction of soil stockpiles	Subsoil was removed from the topsoil preventing further contamination. A toolbox talk was held on the importance of topsoil.	Closed	22 nd August 2023	None

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001

September 2023



Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility, Eastern Cape
Sept 2023

OPS_007_v001

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries, and the Environment: Compliance Monitoring

DATED:

Sept 2023

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
TABLE OF FIGURES	3
1 INTRODUCTION	5
2 GENERAL	6
2.1 General Outstanding matters	6
2.2 Audits (Internal & External).....	6
3 WASTE MANAGEMENT	7
3.1 Domestic/ General Waste	7
3.2 Hazardous waste	8
3.3 Wastewater	8
4 PROTECTIVE MEASURES.....	9
4.1 General	9
4.2 Dust Control.....	9
4.3 Hazardous Substance	9
5 ENVIRONMENTAL CONSERVATION	10
5.1 Conservation of Flora.....	10
5.2 Conservation of Fauna.....	10
5.3 Water Management	11
5.4 Soil Management	11
6 INFRASTRUCTURE MANAGEMENT	12
6.1 Access Roads	12
6.2 Fences, Gates, and Barricading.....	13
6.3 Buildings and Structures	13
7 SOCIAL.....	14

8	ENVIRONMENTAL AWARENESS AND TRAINING	14
9	HERITAGE.....	14
10	NCRS & DEFECTS.....	14
11	REHABILITATION	15
12	INCIDENTS AND ACCIDENTS.....	15
13	MEETINGS AND OTHER CORRESPONDENCE.....	15
	ANNEXURE A – CONCERNS REGISTER.....	17
i.	Open Concerns.....	17
ii.	Closed Concerns	17
	ANNEXURE B – NCR REGISTER	18
	ANNEXURE C – INCIDENTS REGISTER	19

TABLE OF FIGURES

Figure 1:	Self bunded bulk fuel with additional bunding measures in place.....	9
Figure 2:	Stockpiling of removed prickly pear for eradication. (Billing, 2023)	10
Figure 3:	New two track servitude road for OHPL.....	12
Figure 4:	Barricading located round OHPL excavations.....	13

ABBREVIATIONS

DEA:	Department of Forestry, Fisheries, and the Environment
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
ESCO:	Environmental Site Compliance Officer
EIA:	Environmental Impact Assessment
EMPr:	Environmental Management Programme
EO:	Contractors Environmental Officer
EO:	Contractors Environmental Officer
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
OHPL:	Overhead Power Line
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

OPS_007_v001

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd ("**NCC**") was appointed by Wolf Wind Farm (RF) (Pty) Ltd ("**Wolf**") to provide a suitably experienced independent Environmental Control Officer ("**ECO**") for the construction phase of 183MW Wolf Wind Energy Facility ("**WEF**") and associated infrastructure located due south of the town of Jansenville within the Eastern Cape.

On completion the facility will consist of the construction of 17 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building, and internal access roads.

In addition to the construction of wind turbines, connecting overhead powerline ("**OHPL**") and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in Annexure D the Environmental Authorisation ("**EA**") are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme ("**EMPr**").

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations
 - i. 14/12/16/3/3/1/2515 (89km OHPL: Wolf-Grassridge)
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation)
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme.
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses, and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

"The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO."

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMPr lies with the Project and Project Manager, while the Department of Forestry, Fisheries, and the Environment ("**DFFE**") Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL

Works commenced, or continued, during this reporting period included the following activities:

- Base excavations
- Batch Plant operations
- Bulk earth works including clearing and grub, cut to fill and cut to stockpile.
- Bush clearing for OHPL.
- Crushing
- Drilling & Blasting
- Fencing installation
- Preparation of Access Routes
- Search and rescue on the OHPL sections
- Soil nominations
- Stormwater infrastructure
- Surveying and pegging of the OHPL.
- Trenching operations

This report covers the period to end of September 2023.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers.

The register contains the number of concerns noted and distinguishes between the numbers of outstanding or open items and closed-out items.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There are **no** outstanding matters for this reporting period.

Find the concerns register attached as [Annexure A](#).

2.2 Audits (Internal & External)

Internal audits are conducted monthly by the ESCO and are available on request.

All external audit results will be included in this section as and when conducted.

A summary and any findings of concern will be recorded in this section. Audit tables are available on request.

Results of the external water use licence audit conducted on 28th June 2023 are still outstanding and the result will be made available in this report when available.

Internal ESMS audit was conducted on 27th September 2023.

3 WASTE MANAGEMENT

Wolf will make provision for waste avoidance, minimisation, and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.

3.1 Domestic/ General Waste

A designated waste area is present at the contractor site offices which will store waste temporarily prior to being transferred to the relevant waste facility.

A designated waste area is located at the site offices which consists of two (2) skips labelled for the general waste.

The waste area is to be maintained in good working order, both neat and clean.

No concerns were raised by the ESCO regarding the waste management area.

An agreement is in place with a service provider to service on site skips. General waste is disposed at an approved landfill site. An agreement letter with the municipality/landfill must be put in place and a copy of the facilities licence shall be kept on record.

Monthly figures are recorded by the contractor's Environmental Officer (**EO**) on a waste register and provided to the Environmental Site Compliance Officer (**ESCO**) which in turn is provided to the ECO.

A waste disposal register is kept on file for record purposes.

12m³ of general waste was disposed of during this reporting period.

0 kg of recyclable material was collected by a recycling service provider during this reporting period.

The Contractor has set aside and established a dedicated parking area for vehicles to ensure vehicles do not obstruct access to the waste management area.

3.2 Hazardous waste

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO. If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

One hazardous skip is readily available on site however no hazardous waste figures were recorded for disposal for this reporting period as it was reported that **no waste** was disposed of.

3.3 Wastewater

Monthly figures are recorded by the EO on a waste register and provided to the ESCO and ECO.

Mobile portable toilets are made available on site and are serviced weekly.

Disposal and transport permits are available on site. Wastewater is disposed of at Fishwater flats disposal facility. The ESCO has requested that additional mobile toilets be provided for the working area. Mobile toilets are serviced once a week, or as and when required.

Mobile toilets are tied down on site to avoid accidental spillage.

The site office is connected to conservancy tanks and are serviced by a service provider who disposes of the wastewater at the Jansenville wastewater treatment facility.

Record of disposal is kept on record and made available on request.

An estimated **14 000L** of wastewater was removed off site during the reporting period.

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

Blasting notifications are sent to surrounding landowners and blasting notice boards are placed on access roads to notify parties of impending blasts.

Measures continue to be implemented to alleviate excess stormwater on site including installing rock material to aid with water filtration and the cutting of v-drains.

4.2 Dust Control

No nuisance dust was observed on site, dust suppression measures continue to be implemented in areas which pose potential dust nuisance.

4.3 Hazardous Substance

A **23 000**-litre self-bunded bulk fuel storage container present on site has been commissioned, additional bunding has been put in place to assist with refuelling. This consists of plastic sheet lining and brick wall bund.

Trailer fuel bowzers are present on site to assist with refuelling in the working areas.

Spill kits are made available on site and are readily available to assist in mitigating against any degradation and clean any chemical spills when required. An external service provider is on call if any major spills occur.

The storage area located at the site offices appears neat and clean.

Drip trays continue to be distributed to each vehicle operator to be kept with dedicated vehicles for use.



Figure 1: Self bunded bulk fuel with additional bunding measures in place.

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

All Search & Rescue ("**S&R**") operations are conducted as per the Department of Economic Development, Environmental Affairs and Tourism ("**DEDEAT**") ordinary permit conditions¹.

S&R operations have been completed on the OHPL. Bush clearing and alien invasive clearing operations has commenced.

The Contractor has drafted a chance find procedure whereby S&R activities to relocate species from the construction footprint are implemented as and when required. A plant relocation register is available on file.

Eight (8) Cycads *Encephelartos longifolius* were relocated from the Grassridge OHPL.

Any alien invasive species removed from the working area are stored in a dedicated area on site to dry and die out. The contractor intends to propose the burning of alien invasive cuttings on site to reduce the risk of spreading seed during transit. Any burning would be conducted under strict conditions and procedures as approved by the ESCO and reviewed by the ECO.



Figure 2: Stockpiling of removed prickly pear for eradication. (Billing, 2023)

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping, or killing of animals are allowed. All animal mortalities must be recorded and reported.

No mortalities were recorded during this reporting period.

¹ Permit No: TO-202206000001989. Expiring 24th June 2023

5.3 Water Management

Water for use on site must be sourced from an authorised water source and quantities must be monitored accordingly. Water is being sourced by the contractor from the local wastewater treatment facility and is being utilized for in dust suppression.

Records of all water use activities are noted in the water use register.

No other of water was sourced from the Municipality during this reporting period.

A General authorisation ("GA - 27/2/2/L570/1/1") was obtained for the abstraction of groundwater from an existing borehole (33°28'04.73"S, 24°99'36.75"E). A temporary water holding tank was installed during this reporting period. No water was abstracted from the borehole during this period.

Abstraction for this period: **1818m³**.

General authorisation ("GA - 27/2/2/N240/3/3") is available for the OHPL for operating a 132 kV OHPL within the regulated area of a watercourse as per Section 21 (i) – Altering the bed, banks, course, or characteristics of a watercourse.

Activities that could potentially have an impact on the watercourses are related to bush clearing where required.

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.

Stockpiles of soil material were observed as being kept separate.

Erosion and stormwater measures have been put in place and should be maintained to reduce loss of topsoil and prevent erosion.

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

Earthwork activities continue on the main internal access road which includes the stripping of topsoil, mulching of vegetation, removal of rock, shaping of the roadbed, cut to fill activities and blasting.

Access routes for the OHPL continues during this period.



Figure 3: New two track servitude road for OHPL.

6.2 Fences, Gates, and Barricading

No fencing and barricading issues have been reported during this reporting period. Concertina gates are installed where fences have been cut for access for construction activities until such time that permanent gates will be installed.

Barricading is erected around open excavations on site. Daily inspections have been requested by the ESCO on site.



Figure 4: Barricading located round OHPL excavations.

6.3 Buildings and Structures

An existing farm building is being utilized as the main site offices for the project, additional office containers have been brought onto site to accommodate additional staff.

A mobile batch plant is in the final stages of completion established adjacent to the site offices and is currently operational.

7 SOCIAL

Any complaints from the public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

A box for receiving internal grievances is present at the site offices. This allows for project staff to bring to the attention of the project management team any comments and or concerns.

All registered complaints will be provided to the ECO.

For this reporting period, no complaints have been reported to the ECO.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks are conducted by the contractors where applicable.

Topics for this period included spills and spill cleaning procedure & waste management and segregation..

The EO is to keep records of all staff which have undertaken induction training.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to and heritage specialist and the Relevant Heritage authority.

No activities impacting upon heritage sites were reported during this period.

10 NCRS & DEFECTS

No Defects were issued by the ESCO or ECO to the Contractor during this reporting period.

No NCRs were issued by the ESCO or ECO to the Contractor during this reporting period.

Open NCRs	Closed NCRs
0	2

Table 1: NCR Status (ECO & ESCO issued)

Find attached NCR register as [Annexure B](#).

11 REHABILITATION

As different phases of the project come to an end, where no further construction is envisaged, rehabilitation measures will be implemented.

To date no rehabilitation measures have been necessary.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

No environmental incidents or moderate to high levels of spills were reported during this reporting period. Find the incidents register attached as [Annexure C](#)

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO conducted the monthly site visit on the 19th of September 2023 with observations captured in this monthly environmental performance report for the month of September.

A monthly ECO compliance report for the August was submitted to the Department by the ECO.

PREPARED BY:

A handwritten signature in blue ink, appearing to be 'Nick Gates', is located below the 'PREPARED BY:' heading.

Nick Gates

Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

OPS_007_v001

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status

*The concerns register is only updated once the ECO is present on site.

ii. Closed Concerns

No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date
001	25 th April 2023	Discovery of marked and unmarked graves along the 89km OHPL route.	17 th May 2023	Contact made with heritage specialist. Portion of OHPL which was traversing the grave site area were relocated within the assessed corridor to avoid any potential conflict.	Discovered graves will not be traversed during construction and any disturbance will potentially be avoided.	End of June 2023
002	12 th May 2023	Excessive dust and failure to implement dust suppression measures.	Immediately	An additional water source was identified to assist with dust suppression measures. An ADT truck is located permanently on the mountain and conducts dust mitigation on the turbine sites, the access road and internal roads. The second water truck moves on the R75 to the greywater site in Jansenville.	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	14 th June 2023

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required
001	ESCO	12/05/2023	Immediately	Failure to implement dust suppression measures	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	Closed	14 th June 2023	None
002	ESCO	26/07/2023	None provided	Compaction of soil stockpiles	Subsoil was removed from the topsoil preventing further contamination. A toolbox talk was held on the importance of topsoil.	Closed	22 nd August 2023	None

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001

October 2023



Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility, Eastern Cape
October 2023

OPS_007_v001

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries, and the Environment: Compliance Monitoring

DATED:

October 2023

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
TABLE OF FIGURES	3
1 INTRODUCTION	5
2 GENERAL	6
2.1 General Outstanding matters	6
2.2 Audits (Internal & External).....	6
3 WASTE MANAGEMENT	7
3.1 Domestic/ General Waste	7
3.2 Hazardous waste	8
3.3 Wastewater	8
4 PROTECTIVE MEASURES.....	9
4.1 General	9
4.2 Dust Control.....	9
4.3 Hazardous Substance	9
5 ENVIRONMENTAL CONSERVATION	10
5.1 Conservation of Flora.....	10
5.2 Conservation of Fauna.....	10
5.3 Water Management.....	10
5.4 Soil Management.....	11
6 INFRASTRUCTURE MANAGEMENT	12
6.1 Access Roads	12
6.2 Fences, Gates, and Barricading.....	13
6.3 Buildings and Structures	13
7 SOCIAL.....	14

8	ENVIRONMENTAL AWARENESS AND TRAINING	14
9	HERITAGE.....	14
10	NCRS & DEFECTS.....	14
11	REHABILITATION	15
12	INCIDENTS AND ACCIDENTS.....	15
13	MEETINGS AND OTHER CORRESPONDENCE.....	15
	ANNEXURE A – CONCERNS REGISTER.....	17
i.	Open Concerns.....	17
ii.	Closed Concerns	17
	ANNEXURE B – NCR REGISTER	18
	ANNEXURE C – INCIDENTS REGISTER	19

TABLE OF FIGURES

Figure 1:	Separated waste management area.....	8
Figure 2:	Bunded Bulk fuel storage area	9
Figure 3:	Culvert installation on the main access route.....	12
Figure 4:	Cleaning of base excavations.....	12
Figure 5:	Operational mobile batch plant.....	13

ABBREVIATIONS

DEA:	Department of Forestry, Fisheries, and the Environment
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
ESCO:	Environmental Site Compliance Officer
EIA:	Environmental Impact Assessment
EMPr:	Environmental Management Programme
EO:	Contractors Environmental Officer
EO:	Contractors Environmental Officer
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
OHPL:	Overhead Power Line
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

OPS_007_v001

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd ("**NCC**") was appointed by Wolf Wind Farm (RF) (Pty) Ltd ("**Wolf**") to provide a suitably experienced independent Environmental Control Officer ("**ECO**") for the construction phase of 183MW Wolf Wind Energy Facility ("**WEF**") and associated infrastructure located due south of the town of Jansenville within the Eastern Cape.

On completion the facility will consist of the construction of 17 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building, and internal access roads.

In addition to the construction of wind turbines, connecting overhead powerline ("**OHPL**") and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in Annexure D the Environmental Authorisation ("**EA**") are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme ("**EMPr**").

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations
 - i. 14/12/16/3/3/1/2515 (89km OHPL: Wolf-Grassridge)
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation)
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme.
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses, and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

"The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO."

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMPr lies with the Project and Project Manager, while the Department of Forestry, Fisheries, and the Environment ("**DFFE**") Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL

Works commenced, or continued, during this reporting period included the following activities:

- Base excavations.
- Batch Plant operations.
- Bulk earthworks.
- Bush clearing for OHPL.
- Concrete works.
- Crushing.
- Drilling & Blasting.
- Fencing installation.
- Preparation of Access Routes.
- Roadbed preparations.
- Search and rescue on the OHPL sections.
- Soil nominations.
- Stormwater infrastructure.
- Surveying and pegging of the OHPL.
- Trenching operations.

This report covers the period to end of October 2023.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers.

The register contains the number of concerns noted and distinguishes between the number of outstanding or open items and closed-out items.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There are **no** outstanding matters for this reporting period.

Find the concerns register attached as [Annexure A](#).

2.2 Audits (Internal & External)

Internal audits are conducted monthly by the ESCO and are available on request.

All external audit results will be included in this section as and when conducted.

A summary and any findings of concern will be recorded in this section. Audit tables are available on request.

Results of the external water use licence audit conducted on 28th June 2023 are still outstanding and the result will be made available in this report when available.

3 WASTE MANAGEMENT

Wolf will make provision for waste avoidance, minimisation, and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.

3.1 Domestic/ General Waste

A designated waste area is present at the contractor site offices which will store waste temporarily prior to being transferred to the relevant waste facility.

A designated waste area is located at the site offices which consists of two (2) skips labelled for the general waste.

The waste area is to be maintained in good working order, both neat and clean.

No concerns were raised by the ESCO regarding the waste management area.

An agreement is in place with a service provider to service on site skips. General waste is disposed at an approved landfill site. An agreement letter with the municipality/landfill must be put in place and a copy of the facilities licence shall be kept on record.

Monthly figures are recorded by the contractor's Environmental Officer (**EO**) on a waste register and provided to the Environmental Site Compliance Officer (**ESCO**) which in turn is provided to the ECO.

A waste disposal register is kept on file for record purposes.

12m³ of general waste was disposed of during this reporting period.

920 kg of steel was recycled during this reporting period.

The Contractor has set aside and established a dedicated parking area for vehicles to ensure vehicles do not obstruct access to the waste management area.



Figure 1: Separated waste management area

3.2 Hazardous waste

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO. If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

One hazardous skip is readily available on site however no hazardous waste figures were recorded for disposal for this reporting period as it was reported that **no waste** was disposed of.

3.3 Wastewater

Monthly figures are recorded by the EO on a waste register and provided to the ESCO and ECO.

Mobile portable toilets are made available on site and are serviced weekly.

Disposal and transport permits are available on site. Wastewater is disposed of at Fishwater flats disposal facility. The ESCO has requested that additional mobile toilets be provided for the working area. Mobile toilets are serviced once a week, or as and when required.

Mobile toilets are tied down on site to avoid accidental spillage.

The site office is connected to conservancy tanks and are serviced by a service provider who disposes of the wastewater at the Jansenville wastewater treatment facility.

Record of disposal is kept on record and made available on request.

An estimated **24 320L** of wastewater was removed off site during the reporting period.

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

Blasting notifications are sent to surrounding landowners and blasting notice boards are placed on access roads to notify parties of impending blasts.

Measures continue to be implemented to alleviate excess stormwater on site including installing rock material to aid with water filtration and the cutting of v-drains.

4.2 Dust Control

No nuisance dust was observed on site, dust suppression measures continue to be implemented in areas which pose potential dust nuisance.

4.3 Hazardous Substance

A **23 000**-litre self-bunded bulk fuel storage container present on site has been commissioned, additional bunding has been put in place to assist with refuelling. This consists of plastic sheet lining and brick wall bund.

Trailer fuel bowzers are present on site to assist with refuelling in the working areas.

Spill kits are made available on site and are readily available to assist in mitigating against any degradation and clean any chemical spills when required. An external service provider is on call if any major spills occur.

The storage area located at the site offices appears neat and clean.

Drip trays continue to be distributed to each vehicle operator to be kept with dedicated vehicles for use.



Figure 2: Bunded Bulk fuel storage area

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

All Search & Rescue ("**S&R**") operations are conducted as per the Department of Economic Development, Environmental Affairs and Tourism ("**DEDEAT**") ordinary permit conditions¹.

S&R operations are conducted on an as and when required basis after initial S&R operations were conducted. A plant relocation register is readily available on site.

Bush clearing and alien invasive clearing operations continue on site, in particular the OHPL.

The Contractor continues with a chance find procedure whereby S&R activities to relocate species from the construction footprint are implemented as and when required. A plant relocation register is available on file.

Any alien invasive species removed from the working area are stored in a dedicated area on site to dry and die out. The contractor intends to propose the burning of alien invasive cuttings on site to reduce the risk of spreading seed during transit. Any burning would be conducted under strict conditions and procedures as approved by the ESCO and reviewed by the ECO. The method statement has been submitted for approval.

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping, or killing of animals are allowed. All animal mortalities must be recorded and reported.

No mortalities were recorded during this reporting period.

5.3 Water Management

Water for use on site must be sourced from an authorised water source and quantities must be monitored accordingly. Water is being sourced by the contractor from the local wastewater treatment facility and is being utilized for in dust suppression.

Records of all water use activities are noted in the water use register.

A General authorisation ("**GA - 27/2/2/L570/1/1**") was obtained for the abstraction of groundwater from an existing borehole (**33°28'04.73"S, 24°99'36.75"E**). A temporary water holding tank was installed during this reporting period. No water was abstracted from the borehole during this period.

Abstraction for this period: **518m³**.

364m³ of grey water was abstracted from the local greywater treatment facility and used in dust mitigation.

¹ Permit No: TO-202206000001989. Expiring 24th June 2023

84m³ of water has been abstracted from the registered borehole (GA JA02400) located at the site offices. This has been utilised for concrete batching and dust mitigation. Conversion of GA from agricultural to industrial is still in progress.

General authorisation (“**GA - 27/2/2/N240/3/3**”) is available for the OHPL for operating a 132 kV OHPL within the regulated area of a watercourse as per Section 21 (i) – Altering the bed, banks, course, or characteristics of a watercourse.

Activities that could potentially have an impact on the watercourses are related to bush clearing where required.

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.

Stockpiles of soil material were observed as being kept separate.

Erosion and stormwater measures have been put in place and should be maintained to reduce loss of topsoil and prevent erosion.

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

Earthwork activities continue the main internal access road which includes the stripping of topsoil, mulching of vegetation, removal of rock, shaping of the roadbed, cut to fill activities and blasting.

Access routes for the OHPL continues during this period.



Figure 3: Culvert installation on the main access route.



Figure 4: Cleaning of base excavations

6.2 Fences, Gates, and Barricading

No fencing and barricading issues have been reported during this reporting period. Concertina gates are installed where fences have been cut for access for construction activities until such time that permanent gates will be installed.

Barricading is erected around open excavations on site. Daily inspections have been requested by the ESCO on site.

6.3 Buildings and Structures

An existing farm building is being utilized as the main site offices for the project, additional office containers have been brought onto site to accommodate additional staff.

A mobile batch plant has been established adjacent to the site offices and is currently operational.



Figure 5: Operational mobile batch plant

7 SOCIAL

Any complaints from the public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

A box for receiving internal grievances is present at the site offices. This allows for project staff to bring to the attention of the project management team any comments and or concerns.

All registered complaints will be provided to the ECO.

For this reporting period, no complaints have been reported to the ECO.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks are conducted by the contractors where applicable.

Topics for this period included topsoil management; drip tray management and correct disposal of cigarettes and how cigarette butts can affect the environment if not disposed correctly.

The EO is to keep records of all staff which have undertaken induction training.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to and heritage specialist and the Relevant Heritage authority.

No activities impacting upon heritage sites were reported during this period.

10 NCRS & DEFECTS

No Defects were issued by the ESCO or ECO to the Contractor during this reporting period.

No NCRs were issued by the ESCO or ECO to the Contractor during this reporting period.

Open NCRs	Closed NCRs
0	2

Table 1: NCR Status (ECO & ESCO issued)

Find attached NCR register as [Annexure B](#).

11 REHABILITATION

Rehabilitation has been started at WEA 07, with topsoil being placed on the slopes surrounding the hardstands.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

No environmental incidents or moderate to high levels of spills were reported during this reporting period. Find the incidents register attached as [Annexure C](#)

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO conducted the monthly site visit on the 19th of October 2023 with observations captured in this monthly environmental performance report for the month of October.

Monthly ECO compliance reports are submitted to the Department by the ECO.

PREPARED BY:



Luke Saunders

Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 071 5697 189

E · luke@ncc-group.co.za

REVIEWED BY:



Nick Gates

Lead Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

OPS_007_v001

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status

**The concerns register is only updated once the ECO is present on site.*

ii. Closed Concerns

No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date
001	25 th April 2023	Discovery of marked and unmarked graves along the 89km OHPL route.	17 th May 2023	Contact made with heritage specialist. Portion of OHPL which was traversing the grave site area were relocated withing the assessed corridor to avoid any potential conflict.	Discovered graves will not be traversed during construction and any disturbance will potentially be avoided.	End of June 2023
002	12 th May 2023	Excessive dust and failure to implement dust suppression measures.	Immediately	An additional water source was identified to assist with dust suppression measures. An ADT truck is located permanently on the mountain and conducts dust mitigation on the turbine sites, the access road and internal roads. The second water truck moves on the R75 to the greywater site in Jansenville.	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	14 th June 2023

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required
001	ESCO	12/05/2023	Immediately	Failure to implement dust suppression measures	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	Closed	14 th June 2023	None
002	ESCO	26/07/2023	None provided	Compaction of soil stockpiles	Subsoil was removed from the topsoil preventing further contamination. A toolbox talk was held on the importance of topsoil.	Closed	22 nd August 2023	None

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001

November 2023



Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility, Eastern Cape
November 2023

OPS_007_v001

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries, and the Environment: Compliance Monitoring

DATED:

November 2023

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
TABLE OF FIGURES	3
1 INTRODUCTION	5
2 GENERAL	6
2.1 General Outstanding matters	6
2.2 Audits (Internal & External).....	6
3 WASTE MANAGEMENT	7
3.1 Domestic/ General Waste	7
3.2 Hazardous waste	8
3.3 Wastewater	8
4 PROTECTIVE MEASURES.....	9
4.1 General	9
4.2 Dust Control.....	9
4.3 Hazardous Substance	9
5 ENVIRONMENTAL CONSERVATION	10
5.1 Conservation of Flora.....	10
5.2 Conservation of Fauna.....	11
5.3 Water Management.....	11
5.4 Soil Management.....	11
6 INFRASTRUCTURE MANAGEMENT	12
6.1 Access Roads	12
6.2 Fences, Gates, and Barricading.....	13
6.3 Buildings and Structures	14
7 SOCIAL.....	15

8	ENVIRONMENTAL AWARENESS AND TRAINING	15
9	HERITAGE.....	15
10	NCRS & DEFECTS.....	15
11	REHABILITATION	16
12	INCIDENTS AND ACCIDENTS.....	16
13	MEETINGS AND OTHER CORRESPONDENCE.....	16
	ANNEXURE A – CONCERNS REGISTER.....	18
i.	Open Concerns.....	18
ii.	Closed Concerns	18
	ANNEXURE B – NCR REGISTER	19
	ANNEXURE C – INCIDENTS REGISTER	20

TABLE OF FIGURES

Figure 1:	Separated waste management area.....	7
Figure 2:	Prickly Pear Stacked.....	10
Figure 3:	Access Road established for OHPL.....	12
Figure 4:	Open excavations barricaded.....	13
Figure 5:	Monopole installation.	14

ABBREVIATIONS

DEA:	Department of Forestry, Fisheries, and the Environment
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
ESCO:	Environmental Site Compliance Officer
EIA:	Environmental Impact Assessment
EMPr:	Environmental Management Programme
EO:	Contractors Environmental Officer
EO:	Contractors Environmental Officer
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
OHPL:	Overhead Power Line
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

OPS_007_v001

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd ("**NCC**") was appointed by Wolf Wind Farm (RF) (Pty) Ltd ("**Wolf**") to provide a suitably experienced independent Environmental Control Officer ("**ECO**") for the construction phase of 183MW Wolf Wind Energy Facility ("**WEF**") and associated infrastructure located due south of the town of Jansenville within the Eastern Cape.

On completion the facility will consist of the construction of 17 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building, and internal access roads.

In addition to the construction of wind turbines, connecting overhead powerline ("**OHPL**") and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in Annexure D the Environmental Authorisation ("**EA**") are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme ("**EMPr**").

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations
 - i. 14/12/16/3/3/1/2515 (89km OHPL: Wolf-Grassridge)
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation)
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme.
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses, and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

"The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO."

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMPr lies with the Project and Project Manager, while the Department of Forestry, Fisheries, and the Environment ("**DFFE**") Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL

Works commenced, or continued, during this reporting period included the following activities:

- Base excavations.
- Batch Plant operations.
- Bulk earthworks.
- Bush clearing for OHPL.
- Concrete works. (Bases & road)
- Crushing.
- Drilling & Blasting.
- Earth mat installation at IPP Station
- Fencing installation.
- Search and rescue on the OHPL sections.
- Soil nominations.
- Stormwater infrastructure.
- Surveying and pegging of the OHPL.
- Trenching operations.

This report covers the period to end of November 2023.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers.

The register contains the number of concerns noted and distinguishes between the number of outstanding or open items and closed-out items.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There are **no** outstanding matters for this reporting period.

Find the concerns register attached as [Annexure A](#).

2.2 Audits (Internal & External)

Internal audits are conducted monthly by the ESCO and are available on request.

All external audit results will be included in this section as and when conducted.

A summary and any findings of concern will be recorded in this section. Audit tables are available on request.

Results of the external water use licence audit conducted on 28th June 2023 are still outstanding and the result will be made available in this report when available.

3 WASTE MANAGEMENT

Wolf will make provision for waste avoidance, minimisation, and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.



Figure 1: Separated waste management area

3.1 Domestic/ General Waste

A designated waste area is present at the contractor site offices which will store waste temporarily prior to being transferred to the relevant waste facility.

A designated waste area is located at the site offices which consists of two (2) skips labelled for the general waste.

The waste area is to be maintained in good working order, both neat and clean.

No concerns were raised by the ESCO regarding the waste management area.

An agreement is in place with a service provider to service on site skips. General waste is disposed at an approved landfill site. An agreement letter with the municipality/landfill must be put in place and a copy of the facilities licence shall be kept on record.

Monthly figures are recorded by the contractor's Environmental Officer (**EO**) on a waste register and provided to the Environmental Site Compliance Officer (**ESCO**) which in turn is provided to the ECO.

A waste disposal register is kept on file for record purposes.

12m³ of general waste was disposed of during this reporting period.

The Contractor has set aside and established a dedicated parking area for vehicles to ensure vehicles do not obstruct access to the waste management area.

3.2 Hazardous waste

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO. If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

One hazardous skip is readily available on site however no hazardous waste figures were recorded for disposal for this reporting period as it was reported that **no waste** was disposed of.

3.3 Wastewater

Monthly figures are recorded by the EO on a waste register and provided to the ESCO and ECO.

Mobile portable toilets are made available on site and are serviced weekly.

Disposal and transport permits are available on site. Wastewater is disposed of at Fishwater flats disposal facility. The ESCO has requested that additional mobile toilets be provided for the working area. Mobile toilets are serviced once a week, or as and when required.

Mobile toilets are tied down on site to avoid accidental spillage.

The site office is connected to conservancy tanks and are serviced by a service provider who disposes of the wastewater at the Jansenville wastewater treatment facility.

Record of disposal is kept on record and made available on request.

An estimated **23 852L** of wastewater was removed off site during the reporting period.

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

Blasting notifications are sent to surrounding landowners and blasting notice boards are placed on access roads to notify parties of impending blasts. Blasting activities were finalised during this reporting period.

Measures continue to be implemented to alleviate excess stormwater on site including installing rock material to aid with water filtration and the cutting of v-drains.

4.2 Dust Control

No nuisance dust was observed on site, dust suppression measures continue to be implemented in areas which pose potential dust nuisance.

Dust Buckets for monitoring have been delivered and will be installed on site.

4.3 Hazardous Substance

A **23 000**-litre self-bunded bulk fuel storage container present on site has been commissioned, additional bunding has been put in place to assist with refuelling. This consists of plastic sheet lining and brick wall bund.

Trailer fuel bowzers are present on site to assist with refuelling in the working areas.

Spill kits are made available on site and are readily available to assist in mitigating against any degradation and clean any chemical spills when required. An external service provider is on call if any major spills occur.

The storage area located at the site offices appears neat and clean.

Drip trays continue to be distributed to each vehicle operator to be kept with dedicated vehicles for use.

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

All Search & Rescue ("**S&R**") operations are conducted as per the Department of Economic Development, Environmental Affairs and Tourism ("**DEDEAT**") ordinary permit conditions¹.

Bush clearing and alien invasive clearing operations continue on site, in particular the OHPL.

The Contractor continues with a chance find procedure whereby S&R activities to relocate species from the OHPL, as and when required. A plant relocation register is available on file.

Any alien invasive species removed from the working area are stored in a dedicated area on site to dry and die out. The contractor intends to propose the burning of alien invasive cuttings on site to reduce the risk of spreading seed during transit. Any burning would be conducted under strict conditions and procedures as approved by the ESCO and reviewed by the ECO. The method statement has been submitted for approval.



Figure 2: Prickly Pear Stacked

¹ Permit No: TO-202206000001989. Expiring 24th June 2023

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping, or killing of animals are allowed. All animal mortalities must be recorded and reported.

No mortalities were recorded during this reporting period.

5.3 Water Management

Water for use on site must be sourced from an authorised water source and quantities must be monitored accordingly. Water is being sourced by the contractor from the local wastewater treatment facility and is being utilized for in dust suppression.

Records of all water use activities are noted in the water use register.

A General authorisation ("GA - 27/2/2/L570/1/1") was obtained for the abstraction of groundwater from an existing borehole (33°28'04.73"S, 24°99'36.75"E). A temporary water holding tank was installed during this reporting period. No water was abstracted from the borehole during this period.

Abstraction for this period: **518m³**.

448m³ of grey water was abstracted from the local greywater treatment facility and used in dust mitigation.

222m³ of water has been abstracted from the registered borehole (GA JA02400) located at the site offices. This has been utilised for concrete batching and dust mitigation. Conversion of GA from agricultural to industrial is still in progress.

General authorisation ("GA - 27/2/2/N240/3/3") is available for the OHPL for operating a 132 kV OHPL within the regulated area of a watercourse as per Section 21 (i) – Altering the bed, banks, course, or characteristics of a watercourse.

Activities that could potentially have an impact on the watercourses are related to bush clearing where required.

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.

Stockpiles of soil material were observed as being kept separate.

Erosion and stormwater measures have been put in place and should be maintained to reduce loss of topsoil and prevent erosion.

Topsoil demarcation on the windrows were implemented during this reporting period.

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

Bulk earthworks continue on roads and platforms, this includes cut to fill activities. Cleaning of base excavations continue, with concrete blinding having started. Trenching for MV cables and culvert installations on the main access road continue. Vegetation clearing for the OHPL servitude and tower positions also continues.



Figure 3: Access Road established for OHPL

6.2 Fences, Gates, and Barricading

No fencing and barricading issues have been reported during this reporting period. Concertina gates are installed where fences have been cut for access for construction activities until such time that permanent gates will be installed.

Barricading is erected around open excavations on site.

Daily inspections have been requested by the ESCO on site.



Figure 4: Open excavations barricaded.

6.3 Buildings and Structures

An existing farm building is being utilized as the main site offices for the project, additional office containers have been brought onto site to accommodate additional staff.

A mobile batch plant has been established adjacent to the site offices and is currently operational.

Installation of monopole bases and earth mat at the IPP Station has begun.



Figure 5: Monopole installation.

7 SOCIAL

Any complaints from the public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

A box for receiving internal grievances is present at the site offices. This allows for project staff to bring to the attention of the project management team any comments and or concerns.

All registered complaints will be provided to the ECO.

For this reporting period, no complaints have been reported to the ECO.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks are conducted by the contractors where applicable.

Topics for this period included dust mitigation; staying on the servitude, stock and game theft and the importance of recycling and how it should be implemented.

The EO is to keep records of all staff which have undertaken induction training.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to and heritage specialist and the Relevant Heritage authority.

No activities impacting upon heritage sites were reported during this period.

An archaeological and heritage walkthrough of a section of the new servitude for the OHPL has been planned for the 4th of December.

10 NCRS & DEFECTS

No Defects were issued by the ESCO or ECO to the Contractor during this reporting period.

No NCRs were issued by the ESCO or ECO to the Contractor during this reporting period.

Open NCRs	Closed NCRs
0	2

Table 1: NCR Status (ECO & ESCO issued)

Find attached NCR register as [Annexure B](#).

11 REHABILITATION

Rehabilitation has been started at WEA 07, with topsoil being placed on the slopes surrounding the hardstands.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

No environmental incidents or moderate to high levels of spills were reported during this reporting period. Find the incidents register attached as [Annexure C](#)

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO conducted the monthly site visit on the 22nd of November 2023 with observations captured in this monthly environmental performance report for the month of November.

Monthly ECO compliance reports are submitted to the Department by the ECO.

PREPARED BY:

A handwritten signature in blue ink, appearing to read 'Nick Gates', is positioned below the 'PREPARED BY:' heading.

Nick Gates

Lead Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

OPS_007_v001

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status

**The concerns register is only updated once the ECO is present on site.*

ii. Closed Concerns

No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date
001	25 th April 2023	Discovery of marked and unmarked graves along the 89km OHPL route.	17 th May 2023	Contact made with heritage specialist. Portion of OHPL which was traversing the grave site area were relocated withing the assessed corridor to avoid any potential conflict.	Discovered graves will not be traversed during construction and any disturbance will potentially be avoided.	End of June 2023
002	12 th May 2023	Excessive dust and failure to implement dust suppression measures.	Immediately	An additional water source was identified to assist with dust suppression measures. An ADT truck is located permanently on the mountain and conducts dust mitigation on the turbine sites, the access road and internal roads. The second water truck moves on the R75 to the greywater site in Jansenville.	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	14 th June 2023

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required
001	ESCO	12/05/2023	Immediately	Failure to implement dust suppression measures	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	Closed	14 th June 2023	None
002	ESCO	26/07/2023	None provided	Compaction of soil stockpiles	Subsoil was removed from the topsoil preventing further contamination. A toolbox talk was held on the importance of topsoil.	Closed	22 nd August 2023	None

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001

December 2023 – January 2024



Monthly Environmental ECO Monitoring Report

Wolf Wind Energy Facility, Eastern Cape
December 2023 & January 2024

OPS_007_v001

PREPARED FOR:

Wolf Wind Farm (RF) (Pty) Ltd

Department of Forestry, Fisheries, and the Environment: Compliance Monitoring

DATED:

January 2024

PREPARED BY:

NCC Environmental Services

T • 021 702 2884

E • info@ncc-group.co.za



TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
TABLE OF FIGURES	3
1 INTRODUCTION	5
2 GENERAL	6
2.1 General Outstanding matters	6
2.2 Audits (Internal & External).....	6
3 WASTE MANAGEMENT	7
3.1 Domestic/ General Waste	7
3.2 Hazardous waste	8
3.3 Wastewater	8
4 PROTECTIVE MEASURES.....	9
4.1 General	9
4.2 Dust Control.....	9
4.3 Hazardous Substance	10
5 ENVIRONMENTAL CONSERVATION	12
5.1 Conservation of Flora.....	12
5.2 Conservation of Fauna.....	13
5.3 Water Management	13
5.4 Soil Management	13
6 INFRASTRUCTURE MANAGEMENT	14
6.1 Access Roads	14
6.2 Fences, Gates, and Barricading.....	14
6.3 Buildings and Structures	15
7 SOCIAL.....	15

8	ENVIRONMENTAL AWARENESS AND TRAINING	16
9	HERITAGE.....	16
10	WARNINGS, DEVIATIONS & NCRS	16
11	REHABILITATION	17
12	INCIDENTS AND ACCIDENTS.....	17
13	MEETINGS AND OTHER CORRESPONDENCE.....	17
	ANNEXURE A – CONCERNS REGISTER.....	19
i.	Open Concerns.....	19
ii.	Closed Concerns	19
	ANNEXURE B – NCR REGISTER	20
	ANNEXURE C – INCIDENTS REGISTER	21

TABLE OF FIGURES

Figure 1:	Separated waste management area.....	7
Figure 2:	Smoking area and waste bins (WEA 07)	9
Figure 3:	Dust bucket installed for dust monitoring. (<i>C. Billing, 2023</i>)	10
Figure 4:	Bulk fuel storage with additional bunding.	11
Figure 5:	Cycads barricaded at WK61 (<i>C. Billing, 2024</i>)	12
Figure 6:	Concrete on the Main access road.	14
Figure 7:	Operational batch plant.	15
Figure 8:	Topsoil being placed on slopes for rehabilitation.....	17

ABBREVIATIONS

DEA:	Department of Forestry, Fisheries, and the Environment
DWS:	Department of Water and Sanitation
EA:	Environmental Authorisation
ECO:	Environmental Control Officer
EIA:	Environmental Impact Assessment
EMPr:	Environmental Management Programme
EO:	Contractors Environmental Officer
EO:	Contractors Environmental Officer
ER:	Employer's Representative
ESCO:	Environmental Site Compliance Officer
ESCO:	Environmental Site Compliance Officer
GA:	General Authorisation
NCC:	NCC Environmental Services
NCR:	Non-Compliance Report
NEMA	National Environmental Management Act
OHPL:	Overhead Power Line
SDC:	Safe Disposal Certificates
SHE:	Safety, Health and Environment

OPS_007_v001

1 INTRODUCTION

NCC Environmental Services (Pty) Ltd ("**NCC**") was appointed by Wolf Wind Farm (RF) (Pty) Ltd ("**Wolf**") to provide a suitably experienced independent Environmental Control Officer ("**ECO**") for the construction phase of 183MW Wolf Wind Energy Facility ("**WEF**") and associated infrastructure located due south of the town of Jansenville within the Eastern Cape.

On completion the facility will consist of the construction of 17 wind turbines, 132kV overhead and underground cabling, 33/132kV substation, operational and maintenance building, and internal access roads.

In addition to the construction of wind turbines, connecting overhead powerline ("**OHPL**") and substation the project will require laydown areas, construction site camp and a batch plant.

The independent ECO has the responsibility monitoring conditions referred to in Annexure D the Environmental Authorisation ("**EA**") are implemented, as well as monitoring compliance with the requirements of the Environmental Management Programme ("**EMPr**").

This report provides insight into the overall compliance performance and a summary of any environmental challenges or opportunities, along with potential environmental risks through observations during site inspections.

This report is based on the following environmental conditions or requirements:

- a) Environmental Authorisations
 - i. 14/12/16/3/3/1/2515 (89km OHPL: Wolf-Grassridge)
 - ii. 14/12/16/3/3/1/2516 (Access Road)
 - iii. 14/12/16/3/3/2/599/1 (WEF & Substation)
 - iv. 14/12/16/3/3/2/599/2 (13km OHPL)
- b) Environmental Management Programme.
- c) Relevant environmental legislation.
- d) All other environmental permits, licenses, and authorisations.

This report addresses conditions set out in the EA which states the ECO as part of their duties must:

"The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO."

This report will serve as the monitoring report for the construction phase. The responsibility of enforcement of the conditions of the EMPr lies with the Project and Project Manager, while the Department of Forestry, Fisheries, and the Environment ("**DFFE**") Environmental Management Inspectors may also enforce existing and potentially new conditions through compliance notices.

A copy of all monthly reports will be kept on file and made available on request.

2 GENERAL

Works commenced, or continued, during this reporting period included the following activities:

- Bulk earthworks.
- Search and rescue.
- Bush clearing on OHPL.
- Earth mat installations at IPP substation.
- Foundations at O&M building.
- Soil nominations.
- Base excavations.
- Crushing.
- Fencing installation.
- Trenching for MV cables.
- Batch plant.
- Steel fixing on OHPL.
- Concrete works for base foundations for WEA and OHPL monopole structures.
- Concrete road works on main access road.
- AC installations for WEA.

This report covers the period of December 2023 & January 2024.

2.1 General Outstanding matters

Any major outstanding matters are documented in the ECO concerns registers.

The register contains the number of concerns noted and distinguishes between the number of outstanding or open items and closed-out items.

Any unresolved conditions will roll-over to the next reporting period and will be removed once resolved.

There are **no** outstanding matters for this reporting period.

Find the concerns register attached as [Annexure A](#).

2.2 Audits (Internal & External)

Internal audits are conducted monthly by the ESCO and are available on request.

All external audit results will be included in this section as and when conducted.

A summary and any findings of concern will be recorded in this report.

Audit tables are available on request..

3 WASTE MANAGEMENT

The project makes provision for waste avoidance, minimisation, and separation of waste where possible through recycling efforts.

Waste awareness shall be ongoing and provided through toolbox talks and awareness posters.

This section will be utilized to highlight types, methods of disposal and quantities of waste produced by the project during the construction period.



Figure 1: Separated waste management area

3.1 Domestic/ General Waste

A designated waste area is present at the contractor site offices which will store waste temporarily prior to being transferred to the relevant waste facility.

A designated waste area is located at the site offices which consists of two (2) skips labelled for the general waste.

The waste area is to be maintained in good working order, both neat and clean.

No concerns were raised by the ESCO regarding the waste management area.

An agreement is in place with a service provider to service on site skips. General waste is disposed at an approved landfill site. An agreement letter with the municipality/landfill must be put in place and a copy of the facilities licence shall be kept on record.

Monthly figures are recorded by the contractor's Environmental Officer (**EO**) on a waste register and provided to the Environmental Site Compliance Officer (**ESCO**) which in turn is provided to the ECO.

A waste disposal register is kept on file for record purposes.

24 m³ of general waste was disposed of during this reporting period.

The Contractor has set aside and established a dedicated parking area for vehicles to ensure vehicles do not obstruct access to the waste management area.

3.2 Hazardous waste

Monthly figures are recorded by the EO on a waste register and provided to the ESCO which in turn is provided to the ECO. If any hazardous waste is envisaged Wolf must ensure collection and disposal of the hazardous waste is conducted in line with the relevant legislation.

One hazardous skip is readily available on site.

27 m³ of hazardous waste was disposed of during this reporting period.

3.3 Wastewater

Monthly figures are recorded by the EO on a waste register and provided to the ESCO and ECO.

Mobile portable toilets are made available on site and are serviced weekly.

Disposal and transport permits are available on site. Wastewater is disposed of at Fishwater flats disposal facility.

Mobile toilets are serviced once a week, or as and when required.

Mobile toilets are tied down on site to avoid accidental spillage.

The site office is connected to conservancy tanks and are serviced by a service provider who disposes of the wastewater at the Jansenville wastewater treatment facility.

Record of disposal is kept on record and made available on request.

An estimated **48 919 L** of wastewater was removed off site during the reporting period.

4 PROTECTIVE MEASURES

4.1 General

Any protective measures which have been deployed to mitigate environmental impacts or prevent impacts from occurring will be included in this section.

Blasting notifications are sent to surrounding landowners and blasting notice boards are placed on access roads to notify parties of impending blasts. Blasting activities were finalised during this reporting period.

Measures continue to be implemented to alleviate excess stormwater on site including installing rock material to aid with water filtration and the cutting of v-drains.

Smoking areas are available at workstations.



Figure 2: Smoking area and waste bins (WEA 07)

4.2 Dust Control

No nuisance dust was observed on site, dust suppression measures continue to be implemented in areas which pose potential dust nuisance.

Dust buckets for monitoring were installed during this reporting period.



Figure 3: Dust bucket installed for dust monitoring. (C. Billing, 2023)

4.3 Hazardous Substance

A **23 000**-litre self-bunded bulk fuel storage container present on site has been commissioned, additional bunding has been put in place to assist with refuelling. This consists of plastic sheet lining and brick wall bund.

Trailer fuel bowzers are present on site to assist with refuelling in the working areas.

Spill kits are made available on site and are readily available to assist in mitigating against any degradation and clean any chemical spills when required. An external service provider is on call if any major spills occur.

The storage area located at the site offices appears neat and clean.



Figure 4: Bulk fuel storage with additional bunding.

Drip trays continue to be distributed to each vehicle operator to be kept with dedicated vehicles for use.

5 ENVIRONMENTAL CONSERVATION

5.1 Conservation of Flora

All Search & Rescue ("**S&R**") operations are conducted as per the Department of Economic Development, Environmental Affairs and Tourism ("**DEDEAT**") ordinary permit conditions¹.

Bush clearing and alien invasive clearing operations continue on the site, in particular the OHPL.

The Contractor continues with a chance find procedure whereby S&R activities to relocate species from the OHPL, as and when required. A plant relocation register is available on file. For this reporting period relocation of *Encephalartos horridus* were completed with 21 specimens relocated. This concluded all search and rescue activities for the project.

Four Cycads were found in close proximity to WK61. The contractor barricaded the Cycads for protection and work in this area will be closely monitored.

Any alien invasive species removed from the working area are stored in a dedicated area on site to dry and die out. The contractor intends to propose the burning of alien invasive cuttings on site to reduce the risk of spreading seed during transit. Any burning would be conducted under strict conditions and procedures as approved by the ESCO and reviewed by the ECO. The method statement has been submitted for approval.



Figure 5: Cycads barricaded at WK61 (C. Billing, 2024)

¹ Permit No: TO-202206000001989. Expiring 24th June 2023

5.2 Conservation of Fauna

All persons working at or visiting site are to be made aware not to disturb wildlife i.e., no hunting, trapping, or killing of animals are allowed. All animal mortalities must be recorded and reported.

No mortalities were recorded during this reporting period.

5.3 Water Management

Water for use on site must be sourced from an authorised water source and quantities must be monitored accordingly. Water is being sourced by the contractor from the local wastewater treatment facility and is being utilized for in dust suppression.

Records of all water use activities are noted in the water use register.

A General authorisation ("GA - 27/2/2/L570/1/1") was obtained for the abstraction of groundwater from an existing borehole (33°28'04.73"S, 24°99'36.75"E). A temporary water holding tank was installed during this reporting period. No water was abstracted from the borehole during this period.

Abstraction for this period: **135 m³**.

56 m³ of grey water was abstracted from the local greywater treatment facility and used in dust mitigation.

262 m³ of water has been abstracted from the registered borehole (GA JA02400) located at the site offices. This has been utilised for concrete batching and dust mitigation. Conversion of GA from agricultural to industrial is still in progress.

General authorisation ("GA - 27/2/2/N240/3/3") is available for the OHPL for operating a 132 kV OHPL within the regulated area of a watercourse as per Section 21 (i) – Altering the bed, banks, course, or characteristics of a watercourse.

Activities that could potentially have an impact on the watercourses are related to bush clearing where required.

5.4 Soil Management

Any topsoil stripped is to be stored separately for use at a later stage during rehabilitation.

Stockpiles of soil material were observed as being kept separate.

Erosion and stormwater measures have been put in place and should be maintained to reduce loss of topsoil and prevent erosion.

Topsoil demarcation on the windrows were implemented during this reporting period.

6 INFRASTRUCTURE MANAGEMENT

6.1 Access Roads

Bulk earthworks continue on roads and platforms, this includes cut to fill activities. Cleaning of base excavations continue, with concrete blinding having started. Trenching for MV cables and culvert installations on the main access road continue.

Optipower finalised clearing vegetation for the OHPL servitude road and tower positions.



Figure 6: Concrete on the Main access road.

6.2 Fences, Gates, and Barricading

The project was informed of an internal access gate being found open with the possibility of Wildebeest managing to have moved through the gate to another property. An investigation is underway. Concertina gates are installed where fences have been cut for access for construction activities until such time that permanent gates will be installed.

Barricading is erected around open excavations on site.

Daily inspections have been requested by the ESCO on site.

6.3 Buildings and Structures

An existing farm building is being utilized as the main site offices for the project, additional office containers have been brought onto site to accommodate additional staff.

A mobile batch plant has been established adjacent to the site offices and is currently operational.

OHPL structures started with installation monopole bases and earth mat at IPP substation. Excavations for the O&M building have commenced.

It is advised that if repairs are going to be carried out on hired plant at the campsite platform, a concrete workshop surface with sump/oil separator will be required to prevent pollution.



Figure 7: Operational batch plant.

7 SOCIAL

Any complaints from the public will be recorded on the complaints register and maintained by the contractor to track and resolve the issues that were raised.

A box for receiving internal grievances is present at the site offices. This allows for project staff to bring to the attention of the project management team any comments and or concerns.

All registered complaints will be provided to the ECO.

For this reporting period, no complaints have been reported to the ECO.

8 ENVIRONMENTAL AWARENESS AND TRAINING

Site inductions including environmental topics are conducted for new site personnel and visitors.

In addition, environmentally related toolbox talks are conducted by the contractors where applicable.

Topics for this period included dust mitigation; staying on the servitude, stock and game theft and the importance of recycling and how it should be implemented.

The EO is to keep records of all staff which have undertaken induction training.

9 HERITAGE

In the event of artefacts being uncovered, work should be stopped in that area and the finding reported to and heritage specialist and the Relevant Heritage authority.

No activities impacting upon heritage sites were reported during this period.

An archaeological and heritage walkthrough of a section of the new servitude for the OHPL was conducted on the 4th of December 2023 and the 4th of January 2024.

No concerns were raised by the specialist.

10 WARNINGS, DEVIATIONS & NCRS

No warning and or deviations were noted or issued by the ESCO or ECO during this reporting period.

No NCRs were issued by the ESCO and or ECO during this reporting period.

Open NCRs	Closed NCRs
0	2

Table 1: NCR Status (ECO & ESCO issued)

Find attached NCR register as [Annexure B](#).

11 REHABILITATION

Rehabilitation has been started at WEA 09, with topsoil being placed on the slopes surrounding the hardstands.



Figure 8: Topsoil being placed on slopes for rehabilitation.

12 INCIDENTS AND ACCIDENTS

All environmental related events, incidents and accidents are reported directly to the ECO, and are kept on a central register and included in the monthly report.

A spills and incidents register form part of this and is continually updated and maintained by the Contractor and monitored by the ESCO.

No environmental incidents or moderate to high levels of spills were reported during this reporting period. Find the incidents register attached as [Annexure C](#)

13 MEETINGS AND OTHER CORRESPONDENCE

The ECO conducted the monthly site visit on the 11th of December 2023 and 25th of January 2024 with observations captured in this monthly environmental performance report for the month December 2023 & January 2024.

Monthly ECO compliance reports are submitted to the Department by the ECO.

PREPARED BY:

A handwritten signature in blue ink, appearing to be 'Nick Gates', written in a cursive style.

Nick Gates

Lead Environmental Control Officer

NCC Environmental Services (Pty) Ltd

M · 073 1998 431

E · nickg@ncc-group.co.za

ANNEXURE A – CONCERNS REGISTER

i. Open Concerns

No.	Observation date	Concern	Suggested Due Date ²	Proposed Corrective Action	Status	Closure status

**The concerns register is only updated once the ECO is present on site.*

ii. Closed Concerns

No.	Observation date	Concern	Due Date suggested by ECO	Corrective Action	Outcome	Close out Date
001	25 th April 2023	Discovery of marked and unmarked graves along the 89km OHPL route.	17 th May 2023	Contact made with heritage specialist. Portion of OHPL which was traversing the grave site area were relocated withing the assessed corridor to avoid any potential conflict.	Discovered graves will not be traversed during construction and any disturbance will potentially be avoided.	End of June 2023
002	12 th May 2023	Excessive dust and failure to implement dust suppression measures.	Immediately	An additional water source was identified to assist with dust suppression measures. An ADT truck is located permanently on the mountain and conducts dust mitigation on the turbine sites, the access road and internal roads. The second water truck moves on the R75 to the greywater site in Jansenville.	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	14 th June 2023

² Suggested dates are discussed and decided upon between the ESCO and ECO

ANNEXURE B – NCR REGISTER

Ref. No.	Originator	Dated Issued	Suggested Rectification Date ³	Description	Proposed Corrective Action	Closure Status	Closure Date	Further Action Required
001	ESCO	12/05/2023	Immediately	Failure to implement dust suppression measures	An increase in dust suppression operations and resources have been implemented however due to rains during the period effectiveness was unable to be determined.	Closed	14 th June 2023	None
002	ESCO	26/07/2023	None provided	Compaction of soil stockpiles	Subsoil was removed from the topsoil preventing further contamination. A toolbox talk was held on the importance of topsoil.	Closed	22 nd August 2023	None

³ Suggested dates are discussed and decided upon between the Project Team, ECO and Contractor

ANNEXURE C – INCIDENTS REGISTER

Date	Type	Impact	Description of Incident	Volume	Remedial Action	
	Chemical Spill/ Sewage/ Waste/ Fauna & Flora/ Fire/ Water/ Administrative/ Other	Water pollution/ Soil pollution/ Air pollution/ Erosion/ Biodiversity etc.	What, Where, When, How, Why did it happen?		Immediate Corrective Actions	Preventative measures

OPS_007_v001