

ENVIRONMENTAL AUDIT REPORT

The Kestrel Main Transmission Substation (MTS)

Closeout Audit Report

DFFE Ref: 14/12/16/3/3/1/2577/4/AM1

September 2026

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PROJECT DETAILS

Title	: The Construction Closeout audit for the Kestrel Main Transmission Substation (MTS) within the Pixley Ka Seme District, Northern Cape Province
Auditor	: Savannah Environmental (Pty) Ltd Oliver Ligege
Internal Reviewer	: Danie Brummer
Client	: Mulilo De Aar 2 South (Pty) Ltd
Report Revision	: Final
Date	: 11 September 2026

When used as a reference, this report should be cited as: Savannah Environmental (September 2026) The Construction Closeout audit for the Kestrel Main Transmission Substation (MTS) within the Pixley Ka Seme District, Northern Cape Province.

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EXECUTIVE SUMMARY

In line with the requirements of the Environmental Authorisation (EA), the independent Environmental Auditor conducted a construction closeout audit and compiled an audit report within 30 days of completion of construction activities.

A closeout audit report has been compiled for the closeout of construction activities and documents the project's environmental compliance with the requirements of the current EA (DFFE ref: 14/12/16/3/3/1/2577/4/AM1) dated 27 June 2024 and Generic EMPr (DFFE ref: 14/12/16/3/3/1/2577/4) dated 05 March 2024. This construction closeout audit report was not drafted in line with the closure activities as the project is currently in its first (1st) year of operational phase. The closure plan will be drafted during the decommissioning phase of the project.

An Environmental Control Officer (ECO), Chandré de Waard, was appointed by the Project Company (through Amathemba Environmental Management Consulting) to monitor the implementation of mitigation measures and ensure that conditions referred to in the EA are implemented throughout the construction phase of the project. ECO monitoring and auditing were conducted monthly until project completion. Oliver Ligege from Savannah Environmental has been appointed as an independent Environmental Auditor to conduct the construction closeout audit for the project.

No non-conformances and no Environmental incidents were opened during the audit. This is a construction closeout audit report prepared for the project, conducted in line with the requirements of Regulation 34 of the Regulations, 2014 (As amended), and Condition 27 of the project's EA (14/12/16/3/3/1/2577/4), based on the pre-construction and construction activities of the project. The project was energised on 31 July 2026, and construction was completed between the 13th and 31st August 2026, with the final Amathemba ECO site visit conducted on 13 August 2026.

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LIST OF ACRONYMS AND ABBREVIATIONS

DFFE	Department of Forestry, Fisheries and the Environment
DWS	Department of Water and Sanitation
EA	Environmental Authorisation
ECO	Environmental Control Officer
EMPr	Environmental Management Programme
EMS	Environmental Management System
DEO	Designated Environmental Officer
MTS	Main Transmission Substation
NCR	Non-Compliance Report
CMS	Construction Method Statement
NEMA	National Environmental Management Act
NEM: AQA	National Environmental Management: Air Quality Act
MSDS	Material and Safety Data Sheet
OSHACT	Occupational Safety and Health Act
SAHRA	South African Heritage Resources Agency
WUL	Water Use License
NC	Non-Conformance
SANS	South African National Standard
GPS	Global Positioning System
COD	Commercial Operation Date

DEFINITIONS

Environmental Incidents: For this report, an Environmental Incident is defined as any deviation from the approved Environmental Authorisation (EA), Environmental Management Programme (EMPr), Licenses, Permits or Method Statements. This also includes deviations from regulations that could directly or indirectly lead to damage to the environment.

Non-conformances: Environmental Non-Conformance (NC) is where an Environmental Incident have not received attention or where the same Environmental Incident has been recorded repetitively. NCs may also be issued immediately where deviation from EA, EMP, Licenses, Permits and/or Method Statements and all applicable legislation has or may have resulted in a negative impact on the environment, illness, injury, fatality or property damage.

Reportable Environmental Incidents: For this report, Reportable Environmental Incidents will refer to an incident that requires reporting in terms of National Environmental Management Act (NEMA) section 30 (1) and/or National Water Act (NWA) section 20 (1). NEMA Section 30 defines an Incident as an unexpected sudden occurrence. Including a major emission, fire or explosion leading to serious danger to the public or potentially serious pollution of or detriment to the environment, whether immediate or delayed'. The responsible ECO together with the license holder HSE manager will determine whether the incident is reportable in terms of NEMA or NWA. Chemical spills of not more than 50 litres that do not occur in environmentally sensitive areas will be recorded on the site spill/incident register.

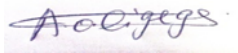
Project Company: Refers to Mulilo De Aar 2 South (Pty) Ltd, 21st Floor, Portside, 5 Buitengracht Street, Cape Town, South Africa, 8001

DECLARATION

I, **Oliver Ligege**, in my capacity as auditor, hereby declare that I –

- » Act as an independent consultant;
- » Do not have any financial interest in the undertaking of the activity, other than remuneration for the work performed;
- » Have and will not have a vested interest in the activity;
- » Have no, and will not engage in, conflicting interests in the undertaking of the activity;
- » Undertake to disclose any material information that has or may have the potential to influence the decision of the competent authority or the objectivity of any report, plan or document;
- » Will provide the competent authority with access to all information at my disposal regarding the report, whether such information is favourable to the Client or not;
- » Based on information provided to me by the Client and in addition to information obtained during this study, have presented the results and conclusion within the associated document to the best of my professional ability;
- » Reserve the right to modify aspects of the present investigation should additional information become available through ongoing research and/or further work in this field;
- » Undertake to have my work peer-reviewed regularly by a competent scientist.

Signature:



Date: 11 September 2026

1. INTRODUCTION

The Kestrel Main Transmission Substation (MTS) is located within the Pixley Ka Seme District, Northern Cape Province.

Environmental Authorisations acquired for the project are as follows:

- » The Environmental Authorisation (EA) applicable to the Kestrel Main Transmission Substation (MTS), 400kV LILLO Power Lines, Access road and Laydown areas, De Aar, Northern Cape Province (DFFE ref: 14/12/16/3/3/1/2577/4/AM1) dated 27 June 2024
- » The Generic EMPr (DFFE ref: 14/12/16/3/3/1/2577/4) dated 05 March 2024

The Independent Environmental Auditor was appointed by Mulilo De Aar 2 South (Pty) Ltd to conduct a construction closeout audit of the Kestrel MTS and submit the Audit report to the Department of Forestry, Fisheries and the Environment (DFFE).

This construction closeout report is submitted to Mulilo De Aar 2 South (Pty) Ltd for review following an internal review and thereafter finalised and submitted to the Director: Compliance Monitoring of the Department of Environmental Affairs. This report serves as the construction closeout report and covers the observations made by the Auditor in **September 2026**.

2. NEMA REGULATIONS SECTION 34: AUDITING COMPLIANCE WITH ENVIRONMENTAL AUTHORISATION (EA)

The content criteria for an Environmental Audit Report are described in full in Section 34 and Appendix 7 of the National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA) and Government Notice R982 of 4 December 2014 (as amended). The pertinent requirements are listed in the table below, together with cross-references indicating where the pertinent data can be located in this report.

Table 1: Appendix 7 conformance table.

Reg:	Environmental Audit Report Content	Included (Yes, No or N/A)	Report Section Reference
3 (1)	An Environmental Audit Report must be prepared in terms of NEMA EIA Regulations of 2014 (as amended) and must contain:		
(a)	(i) Details of the independent person who prepared the Environmental Audit Report;	Yes	Chapter 3
	(ii) The expertise of independent person that compiled the Environmental Audit Report;	Yes	Chapter 3
(b)	A declaration that the Independent Auditor is independent in a form as may be specified by Competent Authority;	Yes	Page vi and chapter 3

(C)	An indication of the scope of and the purpose for which, Environmental Compliance Report was prepared;	Yes	Chapter 1
(d)	The description of the methodology adopted in preparing the Environmental Audit Report;	Yes	Chapter 6
(e)	An indication of the ability of the EMPr, and where applicable closure plan to	Yes	Page ii
	(i) Sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity on an on-going basis;	Yes	Chapter 16
	(ii) Sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with closure plan;	N/A	N/A
	(iii) Ensure compliance with provisions Environmental Authorisation, EMPr, and where applicable closure plan;	Yes	Chapter 16
(f)	A description of any assumption made and any uncertainties or gaps in knowledge;	Yes	Chapter 5
(g)	A description of any consultation process that was undertaken during the course of carrying out the Environmental Compliance Report;	Yes	Chapter 6
(h)	A summary and copies of any comments that were received during any consultation process;	N/A	N/A
(i)	Any other information requested by the Competent Authority;	No	No
(j)	Conclusion and Recommendation;	Yes	Chapter 16
(k)	References; and,	N/A	N/A
(l)	Appendices.	Yes	Page 20

3. OVERVIEW OF THE INDEPENDENT AUDITOR

The construction closeout audit was undertaken by Oliver Ligege as listed in **(Table 2)**. Prior to undertaking the audit and preparing this compliance audit report, the independent auditor was not involved in the assessment, management, control monitoring, or reporting processes associated with the Kestrel MTS.

Table 2: Details of the independent auditor.

Name:	Oliver Ligege (Auditor)
Position:	Environmental and Assessment Compliance Consultant
Company:	Savannah Environmental (Pty) Ltd
Qualification:	BSc. Environmental Sciences
Professional Registration:	Candidate Environmental Assessment Practitioner – 2019/ (EAPASA)
Experience:	7 years. I have experience in auditing various construction, power station and renewable energy projects.
Contact:	011 656 3237
Email:	oliver@savannahsa.com

A Declaration of Interest confirming the auditor's independence is included in this audit report (Page vi).

4. OVERVIEW OF CONSTRUCTION PROGRESS TO DATE

The construction of the Kestrel Main Transmission Substation (MTS) officially commenced on 01 October 2024. The notification of commencement of construction was sent to DFFE on 16 September 2024. The project was energised on 31 July 2026, and construction was completed between the 13th and 31st August, with the final Amathemba monthly ECO site visit conducted on 13 August 2026. The notification of commencement of operation was sent to the department on 14 May 2026.

5. ASSUMPTIONS AND LIMITATIONS

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

5.1 Assumptions

It is assumed that the information provided by the EA holder prior to, during and following the desktop audit is accurate and true.

6. MONITORING METHODOLOGY

The methodology employed to undertake the audit is outlined in **Figure 1** below.

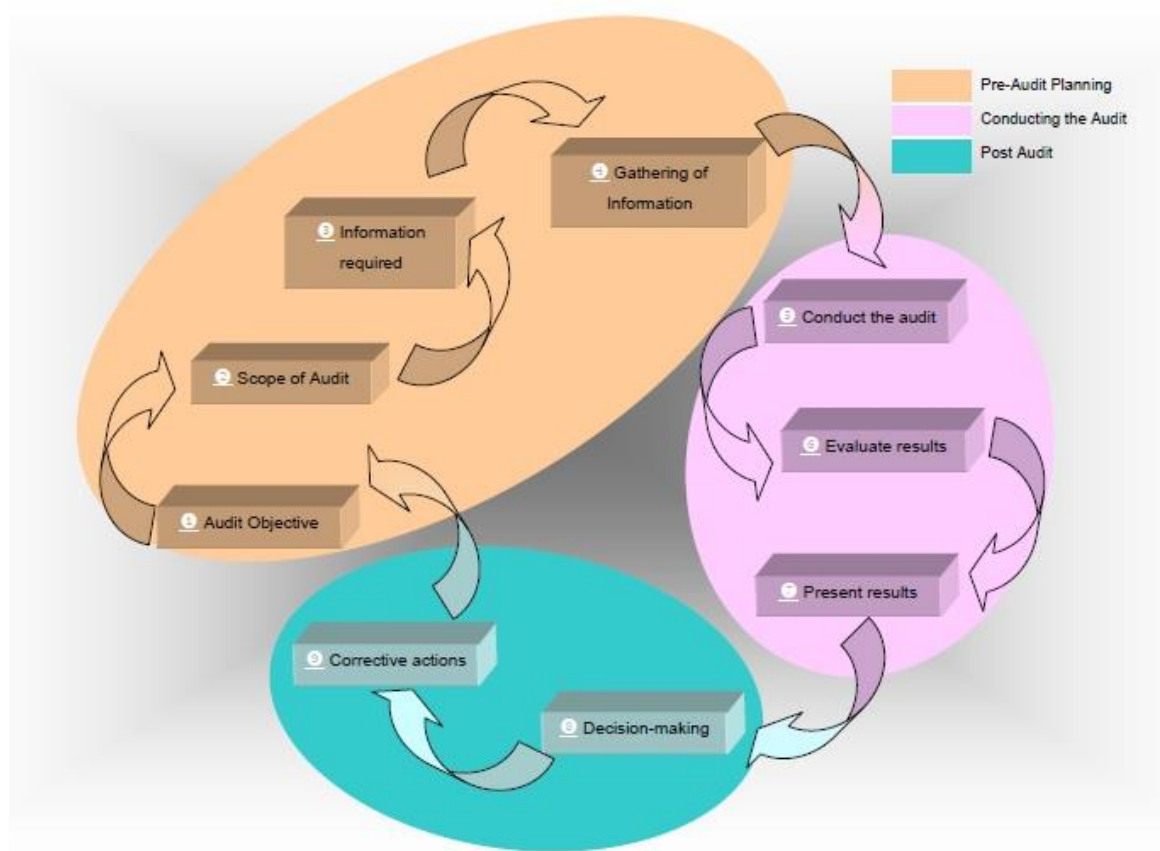


Figure 1. Overview of the Auditing Process.

6.1 Pre-audit planning

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

The information that formed part of the review included:

- » The Environmental Authorisation (EA), as amended, applicable to the Kestrel Main Transmission Substation (MTS), 400kV LILO Power Lines, Access Road and Laydown areas, De Aar, Northern Cape Province (DFFE ref: 14/12/16/3/3/1/2577/4/AM1) dated 27 June 2024.
- » Generic EMPr (DFFE ref: 14/12/16/3/3/1/2577/4) dated 05 March 2024.
- » ECO reports during construction.
- » Discussions with the construction manager; and
- » Inspection of various records, registers and proof of submission documents.

Following the review of the information contained in the above reports, audit checklists have been compiled. The checklists were used as a tool to identify areas of non-conformance to legislation and/or areas where the implementation of corrective action may be required to address concerns identified during the audit process.

6.2 Conducting the Audit

The site visit was undertaken during the period 01 September 2026 and was based on documented evidence provided by Mulilo De Aar 2 South (Pty) Ltd, several correspondence exchanges, personal interviews, and visual observations.

During the site visit, no official opening meeting was conducted with the construction manager, as listed below, as this was covered during the engagements with him leading to the audit. Records and some documents were sampled, and notes were taken. Following the document review, the auditor visited the area that was previously used as the laydown area, the Access Road, the area that was previously used as the stockpiling area, the 400kv overhead line towers, the overhead line service road and the area that was previously used as the batching platform.

Table 6-1. Representatives during the audit.

Name	Company	Designation
Dries du Toit	Mulilo (representing the EA holder)	Construction Manager
Oliver Ligege	Savannah Environmental (Pty) Ltd	Independent Auditor

6.3 Post Audit

The audit findings are presented in **Appendix A and B** of this report. A copy of this Audit Report should be kept in the environmental file.

7. AREAS OF GOOD COMPLIANCE

This section highlights notable areas of good compliance observed during the site compliance visit for September 2026.

7.1 The following observations were made during this reporting period (September 2026):

- » The construction camp has been de-established and the area has been rehabilitated.
- » The MTS has been energised.
- » The access road is operational.
- » The topsoil has been reapplied.
- » The temporary structures have been removed from site.
- » Areas without permanent structures have been rehabilitated.
- » The construction of the powerline has been completed.

7.2 OBSERVATIONS DURING THE SITE INSPECTION

This section highlights notable areas of good compliance observed during the construction closeout audit in September 2026.

OBSERVATION	EMPR REFERENCE	PHOTOGRAPHIC EVIDENCE
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The 3,5-kilometer access road to the site. The road was upgraded from an existing gravel road.	<i>Access roads must only be developed on pre-planned and approved roads.</i>	 01 Sep 2026 at 10:24:11 -30.6968,+24.1268 Northern Cape South Africa Emthanjeni Figure 2: Access Road
Access gate to the MTS that is locked.	<i>Fenced areas with gate access must remain locked after hours, during weekends and on holidays if staff is away from site. Site security will be required at all times.</i>	 01 Sep 2026 at 09:35:51 -30.6773,+24.1185 Northern Cape South Africa Emthanjeni Figure 2: Locked gate to the MTS
An onsite borehole marked with red and white poles. The borehole registration number is 25178600.		 01 Sep 2026 at 09:44:51 -30.6752,+24.1194 Northern Cape South Africa Emthanjeni Figure 3: An on-site borehole

8. FINDINGS DURING CONSTRUCTION PHASE

During the construction phase, 27 findings were reported, and all 27 have been closed. The initial findings were raised in September and November 2024 and were primarily associated with administrative and pre-construction requirements, including notification of authorisation, notification of commencement, appointment of the Environmental Control Officer (ECO), appeal verification, waste management arrangements and availability of the Environmental Authorisation and EMP. These findings were subsequently closed out.

A notable increase in findings occurred during **January 2025**, when several construction-related environmental management deficiencies were identified. These included fencing and access control, water-use monitoring, environmental awareness, disease prevention, hazardous-substance management, spill-kit availability, batching-plant controls, waste management and vegetation search-and-rescue requirements. The concentration of findings during this period is indicative of the transition from site establishment into active construction and the associated increase in environmental management requirements. All these findings were subsequently closed.

From **March to May 2025**, the number of findings decreased substantially, with isolated findings relating to water-metering requirements, documentation management and invasive vegetation on stockpiles. This reduction suggests that the initial construction-phase management systems were becoming established and that corrective actions were being effectively implemented.

A further cluster of findings was recorded in **October 2025**, relating primarily to documentation, vegetation management, off-footprint vehicle movement and the control of alien and invasive plants. The recurrence of vegetation-related findings is significant because alien and invasive species management remained a recurring environmental management theme during the project. The audit report confirms that recurring findings relating to alien and invasive species were addressed through corrective actions and follow-up interventions.

During **2026**, findings became less frequent and increasingly specific to final construction and rehabilitation activities. In February 2026, a finding was raised concerning vehicle movement over rehabilitated areas. In March, two findings related to batching-plant management were recorded, specifically wash-bay containment and cement-bag disposal. In April 2026, erosion along the substation fence was identified and required corrective action. All these findings were closed out.

Overall, the trend demonstrates a **declining frequency of environmental findings over the construction period**, with the highest concentration occurring during the early active-construction period and progressively fewer findings being raised thereafter. The nature of the findings also changed from broader administrative and site-establishment issues to more specific operational, ecological and rehabilitation-related matters.

The most persistent themes identified from the register are:

1. **Vegetation and alien/invasive species management** – recurring findings relating to invasive vegetation and protection of indigenous vegetation.
2. **Water management** – requirements relating to water-use monitoring, metering and authorised water use.
3. **Pollution prevention** – particularly hazardous substances, spill prevention and batching-plant controls.

4. **Site disturbance and rehabilitation** – including off-footprint driving, protection of rehabilitated areas and erosion control.
5. **Environmental documentation and record keeping** – periodic findings relating to maintaining and submitting required environmental documentation.

The fact that **all historical findings have been closed out**, combined with the absence of new findings during the closeout audit, indicates that corrective-action management has been effective. This is consistent with the overall audit finding that the project demonstrated mostly commendable compliance implementation and that the EMPr remained sufficient to provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity on an on-going basis.

9. REPORTABLE INCIDENTS AS PER NEMA AND NWA

This section refers to incidents that require reporting in terms of section 30(1) of the National Environmental Management Act (Act No. 107 of 1998) and section 20(1) of the National Water Act (Act No. 36 of 1998); therefore, this section presents reportable environmental incidents that were observed during the reporting period. For the duration of the construction phase auditing, no (0) reportable environmental incidents were recorded.

10. SOCIAL ENGAGEMENT

There were no (0) new complaints recorded during the construction phase of the project.

The contractor was responsible for maintaining a complaints register to record complaints received and action taken.

11. PROTECTED VEGETATION

No new plant species were relocated for the duration of the rehabilitation reporting period.

Below is the number of *Moraea pallida*, *Moraea polystachya*, *Ruschia intricata*, and *Syringodea concolor* species permitted to be destroyed under the permit FLORA 0011/2024.

Table 1: Destruction of *Moraea pallida*, *Moraea polystachya*, *Ruschia intricata*, and *Syringodea concolor* species from Kestrel MTS.

Permitted Number	Comment
2450	FLORA 0011/2024

12. WASTE MANAGEMENT

Waste that was generated during the construction phase was disposed of in an appropriate manner as verified from the waste disposal slips. The waste figures on the ECO reports are from January 2026 to July 2026.

13. REHABILITATION

The areas that were impacted during the construction phase of the MTS and its associated infrastructure have been rehabilitated. The topsoil has been reapplied on site. The progress of rehabilitation has been included in the rehabilitation audit report.

14. ENVIRONMENTAL PERFORMANCE

This section presents the performance of the project regarding the conditions of the EMPr.

14.1 Environmental Management Programme: Results

A checklist was compiled from the specifications of the EMPr currently active for the project (refer to **Appendix A**). A rating for individual relevant elements of the checklist derived from the specifications of the approved EMPr has been scored on the following basis:

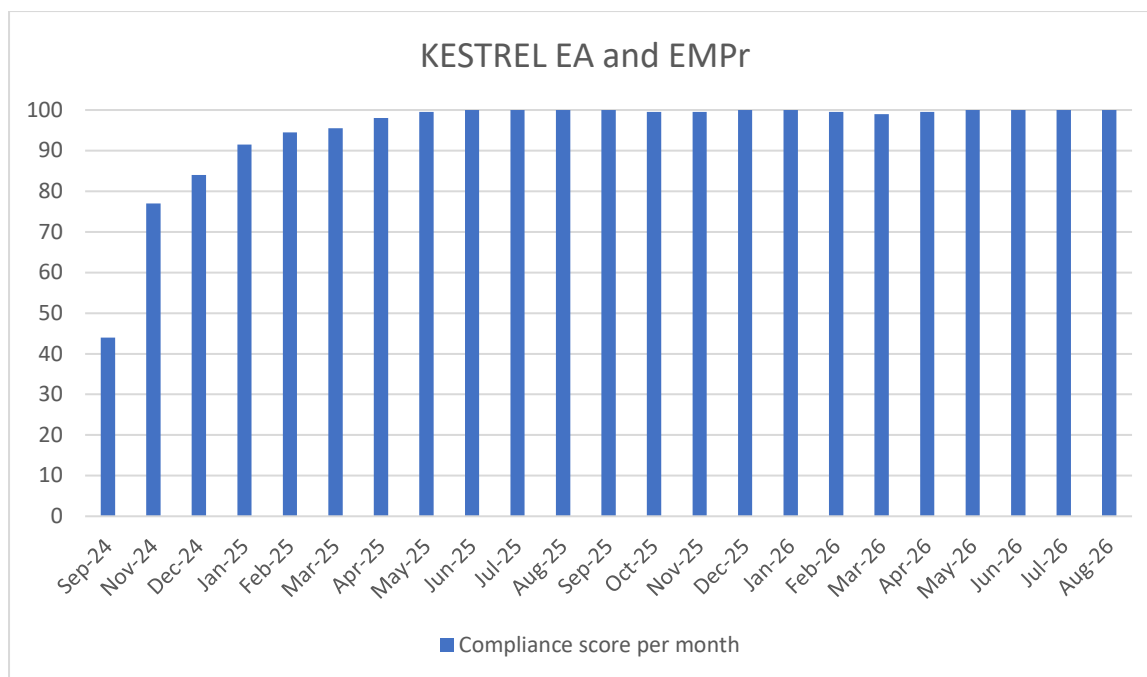
- » A rating of 3: best practice/full compliance,
- » A rating of 2: satisfactory (>50% compliance),
- » A rating of 1: unsatisfactory (<50% compliance),
- » A rating of 0: nothing in place and,
- » A rating of N/A: not applicable at this time.

Table 3 below presents a summary of the results of the overall compliance of the project for the closeout audit.

Table 14-2. A summary of the overall compliance of the project against the Environmental Management Programmes and Environmental Authorisations.

Compliance With:	As Percentage	Compliance With:	As Percentage
EA	100	EMPr	100
Average	100	Average	100

The following graph shows the monthly overall compliance of the contractor from commencement of construction to date.



15. RECOMMENDATIONS FOR EMPr AMENDMENTS

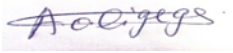
There are currently no Environmental Management Programme (EMPr) amendments being put forward by the Auditor. The current mitigations that form part of the EMPr are sufficient to address any environmental impacts.

16. CONCLUSION AND RECOMMENDATION

Construction activities have been completed, and the project was energised on 31 July 2026. Vegetation is already establishing in most of the rehabilitated sections, as verified at the time of the audit. It is commendable that the project remained compliant with the conditions and requirements of the EA and EMPr throughout the duration of the construction phase. No incidents and no non-conformances were recorded for the closeout audit, and all previous outstanding issues were effectively rectified and closed out. It can therefore be concluded that the project has officially been closed out and will now be considered operational. The rehabilitation progress will be monitored again during the rehabilitation audit.

It is the opinion of the independent auditor that the current EMPr sufficiently provide for the avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity during construction and on an on-going basis. The current EMPr ensure compliance with the provisions of the Environmental Authorisation.

This Report was prepared by:

Name Oliver Ligege
Designation Independent Environmental Auditor (Candidate EAP 2019/1044)
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011 656 3237
Signature 

This Report was reviewed by:

Name Danie Brummer
Designation Compliance & Assurance Manager (Registered EAP 2020/1426)
Contact danie@savannahsa.com
011 656 3237
Signature 

APPENDIX A

EMPr CHECKLIST

Summary of Results

OBJECTIVES ITEMS	PRE-CONSTRUCTION AND CONSTRUCTION PHASE	As %	Comments
	PRE-CONSTRUCTION & DESIGN PHASE		
C1	Environmental awareness	100	
C2	Site Establishment		
C3	Access to restricted area		
C4	Access road	100	
C5	Fencing and Gate installation	100	
C6	Water Supply Management	100	
C7	Storm and Wastewater management		
C8	Solid and Hazardous Waste		
C9	protection of watercourse	100	
C10	vegetation clearing	100	
C11	protection of fauna	100	
C12	Protection of heritage		
C13	Safety of the public	100	
C14	Sanitation		
C15	Protection of disease		
C16	Emergency procedure		
C17	Hazardous substance		
C18	Workshop, Equipment maintenance and storage		
C19	Batching plants		
C20	Dust emissions	100	
C21	Blasting		
C22	Noise		
C23	Fire prevention		
C24	Stockpiling		
C25	Civil works	100	
C26	Excavation of foundation		
C27	Installation of foundation		
C28	Installation of equipment	100	
C29	Steelwork assembly	100	
C30	Cabling and tringing		
C31	Testing and commissioning		
C32	Socio-economic	100	
C33	Temporary closure		
C34	Dismantling of old equipment	100	
C35	Landscaping and rehabilitations	100	
	TOTAL	100	
OVERALL TOTAL			

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - ENVIRONMENTAL AWARENESS										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 21	IPP Substation	All staff must receive environmental awareness training to commencement of the activities	✓		3	This was done during the construction phase of the project. The project is currently operational.				
EMPr, pg. 21	IPP Substation	The Contractor must allow for sufficient sessions to train all personnel with no more than 20 personnel attending each course.	✓		3	This was done during the construction phase of the project. The project is currently operational.				
EMPr, pg. 21	IPP Substation	Refresher environmental awareness training is available as and when required.			N/A	This condition has been noted.				
EMPr, pg. 21	IPP Substation	All staff are aware of the conditions and controls linked to the EA and within the EMPr and made aware of their individual roles and responsibilities in achieving compliance with the EA and EMPr.			N/A	There is no staff on site at the moment. The MTS is operational.				
EMPr, pg. 21	IPP Substation	The Contractor must erect and maintain information posters at key locations on site, and the posters must include the following information as a minimum: a) Safety notifications; and b) No littering.	✓		3	These posters are located at the entrance of the MTS as verified during the audit				
EMPr, pg. 21 &22	IPP Substation	Environmental awareness training must include as a minimum the following: a) Description of significant environmental impacts, actual or potential, related to their work activities; b) Mitigation measures to be implemented when carrying out specific activities; c) Emergency preparedness and response procedures; d) Emergency procedures; e) Procedures to be followed when working near or within sensitive areas; f) Wastewater management procedures; g) Water usage and conservation; h) Solid waste management procedures; i) Sanitation procedures; j) Fire prevention; and k) Disease prevention.	✓		3	This was done during the construction phase of the project. The project is currently operational.				
EMPr, pg. 22	IPP Substation	A record of all environmental awareness training courses undertaken as part of the EMPr must be available	✓		3	The records were provided for verification				
EMPr, pg. 22	IPP Substation	Educate workers on the dangers of open and/or unattended fires.	✓		3	This was done as verified from the toolbox talk records				
EMPr, pg. 22	IPP Substation	A staff attendance register of all staff to have received environmental awareness training must be available.	✓		3	The records were provided for verification				
EMPr, pg. 22	IPP Substation	Course material must be available and presented in appropriate languages that all staff can understand.	✓		3	This was done as verified from the records that were provided for verification				

PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - ENVIRONMENTAL AWARENESS											
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No	
			Yes	No							
					8						

TOTAL SCORE	24
AS AVERAGE	3.0
AS PERCENTAGE	100.0

Each element of the checklist is scored on the following basis:
 3 - best practice/full compliance
 2 - satisfactory (viz >50% compliance)
 1 - unsatisfactory (viz <50% compliance)
 0 - nothing in place
 n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - SITE ESTABLISHMENT										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 23	IPP Substation	A method statement must be provided by the contractor prior to any onsite activity that includes the layout of the construction camp in the form of a plan showing the location of key infrastructure and services (where applicable), including but not limited to offices, overnight vehicle parking areas, stores, the workshop, stockpile and lay down areas, hazardous materials storage areas (including fuels), the batching plant (if one is located at the construction camp), designated access routes, equipment cleaning areas and the placement of staff accommodation, cooking and ablution facilities, waste and wastewater management.			N/A	This condition is no longer applicable; the project is operational, all the site camps have been decommissioned, and the site camp area has been rehabilitated.				
EMPr, pg. 23	IPP Substation	Location of camps must be within approved area to ensure that the site does not impact on sensitive areas identified in the environmental assessment or site walk through.			N/A	This condition is no longer applicable; the project is operational, all the site camps have been decommissioned, and the site camp area has been rehabilitated.				
EMPr, pg. 23	IPP Substation	Sites must be located where possible on previously disturbed areas.			N/A	This condition is no longer applicable; the project is operational, all the site camps have been decommissioned, and the site camp area has been rehabilitated.				
EMPr, pg. 23	IPP Substation	The camp must be fenced in accordance with Section 5.5: Fencing and gate installation ; and			N/A	This condition is no longer applicable; the project is operational, all the site camps have been decommissioned, and the site camp area has been rehabilitated.				
EMPr, pg. 23	IPP Substation	The use of existing accommodation for contractor staff, where possible, is encouraged.			N/A	This condition is no longer applicable; the project is operational, all the site camps have been decommissioned, and the site camp area has been rehabilitated.				
					0					
					N/A					
TOTAL SCORE										
AS AVERAGE										
AS PERCENTAGE										

Each element of the checklist is scored on the following basis:

- 3- best practice/full compliance
- 2- satisfactory (viz >50% compliance)
- 1- unsatisfactory (viz <50% compliance)
- 0- nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - ACCESS TO RESTRICTED AREA										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr. pg.24	IPP Substation	Identification of access restricted areas is to be informed by the environmental assessment, site walk through and any additional areas identified during development.			N/A	This condition is no longer applicable; the project is operational				
EMPr. pg.24	IPP Substation	Erect, demarcate and maintain a temporary barrier with clear signage around the perimeter of any access restricted area, colour coding could be used if appropriate; and.			N/A	This condition is no longer applicable; the project is operational				
EMPr. pg.24	IPP Substation	Unauthorised access and development related activity inside access restricted areas is prohibited.			N/A	This condition is no longer applicable; the project is operational				
					0					

TOTAL SCORE
AS AVERAGE
AS PERCENTAGE

N/A

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - ACCESS ROAD										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 24	IPP Substation	An access agreement must be formalised and signed by the DPM, Contractor and landowner before commencing with the activities			N/A	This condition is no longer applicable; the project is operational				
EMPr, pg. 25	IPP Substation	All private roads used for access to the servitude must be maintained and upon completion of the works, be left in at least the original condition	✓		3	The private roads have been left in their original condition as verified during the audit.				
EMPr, pg. 25	IPP Substation	All contractors must be made aware of all these access routes.			N/A	This condition is no longer applicable; the project is operational				
EMPr, pg. 25	IPP Substation	Any access route deviation from that in the written agreement must be closed and re-vegetated immediately, at the contractor's expense.			N/A	This condition is no longer applicable; the project is operational				
EMPr, pg. 25	IPP Substation	Maximum use of both existing servitudes and existing roads must be made to minimize further disturbance through the development of new roads.	✓		3	No new roads are required. The project is using the authorised access road to access the site.				
EMPr, pg. 25	IPP Substation	In circumstances where private roads must be used, the condition of the said roads must be recorded in accordance with section 4.9: photographic record ; prior to use and the condition thereof agreed by the landowner, the DPM, and the contractor.			N/A	The project is using an authorised access road to access the site.				
EMPr, pg. 25	IPP Substation	Access roads in flatish areas must follow fence lines and tree belts to avoid fragmentation of vegetated areas or croplands.	✓		3	The access road was developed within the approved footprint. The vegetated areas or croplands were not fragmented during the development of the access road.				
EMPr, pg. 25	IPP Substation	Access roads must only be developed on pre-planned and approved roads	✓		3	The access road was developed within the approved footprint.				
					4					
TOTAL SCORE					12					
AS AVERAGE					3.0					
AS PERCENTAGE					100.0					

Each element of the checklist is scored on the following basis:
 3 - best practice/full compliance
 2 - satisfactory (viz >50% compliance)
 1 - unsatisfactory (viz <50% compliance)
 0 - nothing in place
 n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - FENCING AND GATE INSTALLATION										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 26	IPP Substation	Use existing gates provided to gain access to all parts of the area authorised for development, where possible.	✓		3	The existing gate to the farm is still being utilised				
EMPr, pg. 26	IPP Substation	Existing and new gates to be recorded and documented in accordance with section 4.9: photographic record ;	✓		3	The photographic records are available as verified.				
EMPr, pg. 26	IPP Substation	All gates must be fitted with locks and be kept locked at all times during the development phase, unless otherwise agreed with the landowner.	✓		3	The gate to the property where the MTS is located was locked, as verified during the audit.				
EMPr, pg. 26	IPP Substation	At points where the line crosses a fence in which there is no suitable gate within the extent of the line servitude, on the instruction of the DPM, a gate must be installed at the approval of the landowner.			N/A	This is not required. The line does not cross any fence without a gate.				
EMPr, pg. 26	IPP Substation	Care must be taken that the gates must be so erected that there is a gap of no more than 100 mm between the bottom of the gate and the ground.	✓		3	No Issues were noted during the audit				
EMPr, pg. 26	IPP Substation	Where gates are installed in jackal proof fencing, a suitable reinforced concrete sill must be provided beneath the gate			N/A	This condition has been noted.				
EMPr, pg. 26	IPP Substation	Original tension must be maintained in the fence wires	✓		3	No Issues were noted during the audit				

PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - FENCING AND GATE INSTALLATION										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 26	IPP Substation	All gates installed in electrified fencing must be re-electrified.			N/A	The gate to the property is not electrified				
EMPr, pg. 26	IPP Substation	All demarcation fencing and barriers must be maintained in good working order for the duration of the development activities.			N/A	This condition is no longer applicable. The project is operational				
EMPr, pg. 26	IPP Substation	Fencing must be erected around the camp, batching plants, hazardous storage areas, and all designated access restricted areas, where applicable.			N/A	This condition is no longer applicable. The project is operational				
EMPr, pg. 26	IPP Substation	Any temporary fencing to restrict the movement of life-stock must only be erected with the permission of the land owner			N/A	This condition is no longer applicable. The project is operational				
EMPr, pg. 26	IPP Substation	All fencing must be developed of high quality material bearing the SABS mark.			N/A	This condition is no longer applicable. The project is operational				
EMPr, pg. 26	IPP Substation	The use of razor wire as fencing must be avoided.			N/A	This condition is no longer applicable. The project is operational				
EMPr, pg. 27	IPP Substation	Fenced areas with gate access must remain locked after hours, during weekends and on holidays if staff is away from site. Site security will be required at all times.			N/A	This condition is no longer applicable. The project is operational				
EMPr, pg. 27	IPP Substation	On completion of the development phase all temporary fences are to be removed.	✓		3	The temporary fence has been removed, as verified during the audit				
EMPr, pg. 27	IPP Substation	The contractor must ensure that all fence uprights are appropriately removed, ensuring that no uprights are cut at ground level but rather removed completely.	✓		3	The fence uprights have been removed, as verified during the audit.				
					7					
TOTAL SCORE					21					
AS AVERAGE					3.0					
AS PERCENTAGE					100.0					

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - WATER SUPPLY MANAGEMENT										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 27	IPP Substation	All abstraction points or bore holes must be registered with the DWS and suitable water meters installed to ensure that the abstracted volumes are measured on a daily basis	✓		3	The project is using a borehole that is registered as a general authorisation with DWS.				
EMPr, pg. 27	IPP Substation	The Contractor must ensure the following: a. The vehicle abstracting water from a river does not enter or cross it and does not operate from within the river; b. No damage occurs to the river bed or banks and that the abstraction of water does not entail stream diversion activities; and c. All reasonable measures to limit pollution or sedimentation of the downstream watercourse are implemented			N/A	The project is abstracting water from an on-site borehole.				
EMPr, pg. 27 & 28	IPP Substation	Ensure water conservation is being practiced by: a. Minimising water use during cleaning of equipment; b. Undertaking regular audits of water systems; and c. Including a discussion on water usage and conservation during environmental awareness training. d. The use of grey water is encouraged.	✓		3	No issues were noted regarding water conservation during the audit.				
					2					
TOTAL SCORE					6					
AS AVERAGE					3.0					
AS PERCENTAGE					100.0					

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DE AAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - STORM AND WASTE WATER MANAGEMENT										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe \ Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 28	IPP Substation	Runoff from the cement/ concrete batching areas must be strictly controlled, and contaminated water must be collected, stored and either treated or disposed of offsite, at a location approved by the project manager;			N/A	There is no concrete batching occurring on site. The project is currently operational.				
EMPr, pg. 28	IPP Substation	All spillage of oil onto concrete surfaces must be controlled by the use of an approved absorbent material and the used absorbent material disposed of at an appropriate waste disposal facility			N/A	No Spillages were identified on site during the audit				
EMPr, pg. 28	IPP Substation	Natural storm water runoff not contaminated during the development and clean water can be discharged directly to watercourses and water bodies, subject to the Project Manager's approval and support by the ECO			N/A	This condition is no longer applicable; the project is currently operational.				
EMPr, pg. 28 & 29	IPP Substation	Water that has been contaminated with suspended solids, such as soils and silt, may be released into watercourses or water bodies only once all suspended solids have been removed from the water by settling out these solids in settlement ponds. The release of settled water back into the environment must be subject to the Project Manager's approval and support by the ECO.			N/A	This condition is no longer applicable; the project is currently operational.				
					0					

TOTAL SCORE
AS AVERAGE
AS PERCENTAGE

N/A

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - SOLID AND HAZARDOUS WASTE										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 29	IPP Substation	All measures regarding waste management must be undertaken using an integrated waste management approach.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 29	IPP Substation	Sufficient, covered waste collection bins (scavenger and weatherproof) must be provided.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 29	IPP Substation	A suitably positioned and clearly demarcated waste collection site must be identified and provided.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 29	IPP Substation	The waste collection site must be maintained in a clean and orderly manner.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 29	IPP Substation	Waste must be segregated into separate bins and clearly marked for each waste type for recycling and safe disposal.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 29	IPP Substation	Staff must be trained in waste segregation.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 29	IPP Substation	Bins must be emptied regularly.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 29	IPP Substation	General waste produced onsite must be disposed of at registered waste disposal sites/ recycling company.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 29	IPP Substation	Hazardous waste must be disposed of at a registered waste disposal site.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 29	IPP Substation	Certificates of safe disposal for general, hazardous and recycled waste must be maintained.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
					0					
TOTAL SCORE AS AVERAGE AS PERCENTAGE					N/A					

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - PROTECTION OF WATERCOURSE AND ESTUARIES										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 30	IPP Substation	All watercourses must be protected from direct or indirect spills of pollutants such as solid waste, sewage, cement, oils, fuels, chemicals, aggregate tailings, wash and contaminated water or organic material resulting from the Contractor's activities.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 30	IPP Substation	In the event of a spill, prompt action must be taken to clear the polluted or affected areas'.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 30	IPP Substation	Where possible, no development equipment must traverse any seasonal or permanent wetland.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 30	IPP Substation	No return flow into the estuaries must be allowed and no disturbance of the Estuarine functional Zone should occur.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase, and there is no staff on site.				
EMPr, pg. 30	IPP Substation	Development of permanent watercourse or estuary crossing must only be undertaken where no alternative access to tower position is available.			N/A	The service roads do not cross any watercourses				
EMPr, pg. 30	IPP Substation	There must not be any impact on the long term morphological dynamics of watercourses or estuaries.	✓		3	No issues were observed regarding the crossing of the drainage line by the access road.				
EMPr, pg. 30	IPP Substation	Existing crossing points must be favored over the creation of new crossings (including temporary access)			N/A	The access road crosses a drainage line				
EMPr, pg. 30 & 31	IPP Substation	When working in or near any watercourse or estuary, the following environmental controls and consideration must be taken: a) Water levels during the period of construction; No altering of the bed, banks, course or characteristics of a watercourse b) During the execution of the works, appropriate measures to prevent pollution and contamination of the riparian environment must be implemented e.g. including ensuring that construction equipment is well maintained; c) Where earthwork is being undertaken in close proximity to any watercourse, slopes must be stabilised using suitable materials, i.e. sandbags or geotextile fabric, to prevent sand and rock from entering the channel; and d) Appropriate rehabilitation and re-vegetation measures for the watercourse banks must be implemented timeously. In this regard, the banks should be appropriately and incrementally stabilised as soon as development allows.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
					1					
TOTAL SCORE					3					
AS AVERAGE					3.0					
AS PERCENTAGE					100.0					

PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - PROTECTION OF WATERCOURSE AND ESTUARIES										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						

Each element of the checklist is scored on the following basis:
 3 - best practice/full compliance
 2 - satisfactory (viz >50% compliance)
 1 - unsatisfactory (viz <50% compliance)
 0 - nothing in place
 n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - VEGETATION CLEARING										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 31	IPP Substation	Indigenous vegetation which does not interfere with the development must be left undisturbed.	✓		3	Vegetation clearing was limited to the development footprint.				
EMPr, pg. 31	IPP Substation	Protected or endangered species may occur on or near the development site. Special care should be taken not to damage such species.	✓		3	The project had a permit to damage protected species. The permit was valid until 08/02/2026				
EMPr, pg. 32	IPP Substation	Search, rescue and replanting of all protected and endangered species likely to be damaged during project development must be identified by the relevant specialist and completed prior to any development or clearing.	✓		3	The project had a permit to damage protected species. The permit was valid until 08/02/2026				
EMPr, pg. 32	IPP Substation	Permits for removal must be obtained from the relevant CA prior to the cutting or clearing of the affected species, and they must be filed.	✓		3	The project had a permit to damage protected species. The permit was valid until 08/02/2026				
EMPr, pg. 32	IPP Substation	The Environmental Audit Report must confirm that all identified species have been rescued and replanted and that the location of replanting is compliant with conditions of approvals			N/A	The permit was for destroying the plants, not for replanting them.				
EMPr, pg. 32	IPP Substation	Trees felled due to construction must be documented and form part of the Environmental Audit Report			N/A	This condition was active during the construction phase. The project is in the operation phase.				
EMPr, pg. 32	IPP Substation	Rivers and watercourses must be kept clear of felled trees, vegetation cuttings and debris.	✓		3	No issues were found during the audit.				
EMPr, pg. 32	IPP Substation	Only a registered pest control operator may apply herbicides on a commercial basis and commercial application must be carried out under the supervision of a registered pest control operator, supervision of a registered pest control operator or is appropriately trained.			N/A	No herbicides have been used on site so far.				
EMPr, pg. 32	IPP Substation	A daily register must be kept of all relevant details of herbicide usage.			N/A	No herbicides have been used on site so far.				
EMPr, pg. 32	IPP Substation	No herbicides must be used in estuaries			N/A	No herbicides have been used on site so far.				
EMPr, pg. 32	IPP Substation	All protected species and sensitive vegetation not removed must be clearly marked and such areas fenced off in accordance to Section 5.3: Access restricted areas			N/A	No vegetation on site is prone to being affected by the project during the operation phase.				
EMPr, pg. 32	IPP Substation	Alien invasive vegetation must be removed and disposed of at a licensed waste management facility.	✓		3	The contractor was actively removing the alien vegetation on site. It is recommended that alien vegetation management continue during the operational phase of the project.				
TOTAL SCORE					6					
AS AVERAGE					18					
AS PERCENTAGE					3.0					
					100.0					

Each element of the checklist is scored on the following basis:
3 - best practice/full compliance

PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - VEGETATION CLEARING										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
		2 - satisfactory (viz >50% compliance)								
		1 - unsatisfactory (viz <50% compliance)								
		0 - nothing in place								
		n/a - not applicable								

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - PROTECTION OF FAUNA										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 33	IPP Substation	No interference with livestock must occur without the landowner's written consent and with the landowner or a person representing the landowner being present.			N/A	No livestock was observed on site during the audit				
EMPr, pg. 33	IPP Substation	The breeding sites of raptors and other wild birds species must be taken into consideration during the planning of the development programme			N/A	This condition is no longer active. The project is currently operational				
EMPr, pg. 33	IPP Substation	Breeding sites must be kept intact and disturbance to breeding birds must be avoided. Special care must be taken where nestlings or fledglings are present.			N/A	The project will not have any impact on the breeding sites during the operational phase.				
EMPr, pg. 33	IPP Substation	Special recommendations of the avian specialist must be adhered to at all times to prevent unnecessary disturbance of birds.	✓		3	The recommendations are being adhered to.				
EMPr, pg. 33	IPP Substation	No poaching must be tolerated under any circumstances. All animal dens in close proximity to the works areas must be marked as Access restricted areas.	✓		3	No poaching has occurred on site so far.				
EMPr, pg. 33	IPP Substation	No deliberate or intentional killing of fauna is allowed.			N/A	This condition has been noted.				
EMPr, pg. 33	IPP Substation	In areas where snakes are abundant, snake deterrents to be deployed on the pylons to prevent snakes climbing up, being electrocuted and causing power outages; and.			N/A	This condition has been noted.				
EMPr, pg. 33	IPP Substation	No Threatened or Protected species (ToPs) and/or protected fauna as listed according NEMBA (Act No. 10 of 2004) and relevant provincial ordinances may be removed and/or relocated without appropriate authorisations/permits.			N/A	This condition has been noted.				
					2					

TOTAL SCORE	6
AS AVERAGE	3.0
AS PERCENTAGE	100.0

Each element of the checklist is scored on the following basis:
 3 - best practice/full compliance
 2 - satisfactory (viz >50% compliance)
 1 - unsatisfactory (viz <50% compliance)
 0 - nothing in place
 n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - PROTECTION OF HERITAGE RESOURCES.										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 34	IPP Substation	Identify, demarcate and prevent impact to all known sensitive heritage features on site in accordance with the No-Go procedure in Section 5.3: Access restricted areas.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 34	IPP Substation	Carry out general monitoring of excavations for potential fossils, artefacts and material of heritage importance.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 34	IPP Substation	All work must cease immediately, if any human remains and/or other archaeological, palaeontological and historical material are uncovered. Such material, if exposed, must be reported to the nearest museum, archaeologist/ palaeontologist (or the South African Police Services), so that a systematic and professional investigation can be undertaken. Sufficient time must be allowed to remove/collect such material before development recommences.			N/A	This condition has been noted				
					0					

TOTAL SCORE

N/A

AS AVERAGE

AS PERCENTAGE

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - SAFETY OF THE PUBLIC.										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 35	IPP Substation	Identify fire hazards, demarcate and restrict public access to these areas as well as notify the local authority of any potential threats e.g. large brush stockpiles, fuels etc.			N/A	This condition has been noted				
EMPr, pg. 35	IPP Substation	All unattended open excavations must be adequately fenced or demarcated.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 35	IPP Substation	Adequate protective measures must be implemented to prevent unauthorised access to and climbing of partly constructed towers and protective scaffolding;			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 35	IPP Substation	Ensure structures vulnerable to high winds are secured;			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 35	IPP Substation	Maintain an incidents and complaints register in which all incidents or complaints involving the public are logged.	✓		3	An incident register was provided for verification				
					1					
TOTAL SCORE					3					
AS AVERAGE					3.0					
AS PERCENTAGE					100.0					

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - SANITATION										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg.35	IPP Substation	Mobile chemical toilets are installed onsite if no other ablution facilities are available;			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg.35	IPP Substation	The use of ablution facilities and or mobile toilets must be used at all times and no indiscriminate use of the veld for the purposes of ablutions must be permitted under any circumstances.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg.36	IPP Substation	Where mobile chemical toilets are required, the following must be ensured: a) Toilets are located no closer than 100 m to any watercourse or water body; b) Toilets are secured to the ground to prevent them from toppling due to wind or any other cause; c) No spillage occurs when the toilets are cleaned or emptied and the contents are managed in accordance with the EMPr; d) Toilets have an external closing mechanism and are closed and secured from the outside when not in use to prevent toilet paper from being blown out; e) Toilets are emptied before long weekends and workers holidays, and must be locked after working hours; f) Toilets are serviced regularly and the ECO must inspect toilets to ensure compliance to health standards.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 36	IPP Substation	A copy of the waste disposal certificates must be maintained.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
					0					
TOTAL SCORE					N/A					
AS AVERAGE										
AS PERCENTAGE										

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - PREVENTION OF DISEASE										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 36	IPP Substation	Undertake environmentally-friendly pest control in the camp area.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 36	IPP Substation	Ensure that the workforce is sensitised to the effects of sexually transmitted diseases, especially HIV/AIDS.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 37	IPP Substation	The Contractor must ensure that information posters on AIDS are displayed in the Contractor Camp area.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 37	IPP Substation	Information and education relating to sexually transmitted diseases to be made available to both construction workers and local community, where applicable.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 37	IPP Substation	Free condoms must be made available to all staff on site at central points			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 37	IPP Substation	Medical support must be made available;			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 37	IPP Substation	Provide access to Voluntary HIV Testing and Counselling Services.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
					0					

TOTAL SCORE

N/A

AS AVERAGE

AS PERCENTAGE

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - EMERGENCY PROCEDURE										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 37	IPP Substation	Compile an Emergency Response Action Plan (ERAP) prior to the commencement of the proposed project.								
EMPr, pg. 37	IPP Substation	The Emergency Plan must deal with accidents, potential spillages and fires in line with relevant legislation.								
EMPr, pg. 37	IPP Substation	All staff must be made aware of emergency procedures as part of environmental awareness training.								
EMPr, pg. 37	IPP Substation	The relevant local authority must be made aware of a fire as soon as it starts.								
EMPr, pg. 37	IPP Substation	In the event of emergency necessary mitigation measures to contain the spill or leak must be implemented (see Hazardous Substances section 5.17)								
					0					

TOTAL SCORE
AS AVERAGE
AS PERCENTAGE

N/A

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

ENVIRONMENTAL MANAGEMENT PROGRAMME CHECKLIST FOR THE MULILO AAR 2 SOUTH: KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO,5 DEAAR, NORTHERN CAPE

Period: September 2026

Site: Kestrel MTS

Completed by: Oliver Ligege (ECO)



PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - HAZARDOUS SUBSTANCE										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 38	IPP Substation	The use and storage of hazardous substances to be minimised and non-hazardous and non-toxic alternatives substituted where possible.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 38	IPP Substation	All hazardous substances must be stored in suitable containers as defined in the Method Statement.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 38	IPP Substation	Containers must be clearly marked to indicate contents, quantities and safety requirements.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 38	IPP Substation	All storage areas must be bunded. The bunded area must be of sufficient capacity to contain a spill / leak from the stored containers.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 38	IPP Substation	Bunded areas to be suitably lined with a SABS approved liner			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 38	IPP Substation	An Alphabetical Hazardous Chemical Substance (HCS) control sheet must be drawn up and kept up to date on a continuous basis			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 38	IPP Substation	All hazardous chemicals that will be used on site must have Material Safety Data Sheets (MSDS);.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 38	IPP Substation	All employees working with HCS must be trained in the safe use of the substance and according to the safety data sheet.			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 38	IPP Substation	Employees handling hazardous substances/materials must be aware of the potential impacts and follow appropriate safety measures. Appropriate personal protective equipment must be made available			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 39	IPP Substation	The Contractor must ensure that diesel and other liquid fuel, oil and hydraulic fluid is stored in appropriate storage tanks or in bowsters			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 39	IPP Substation	The tanks/ bowsters must be situated on a smooth impermeable surface (concrete) with a permanent bund. The impermeable lining must extend to the crest of the bund and the volume inside the bund must be 130% of the total capacity of all the storage tanks/ bowsters (110% statutory requirement plus an allowance for rainfall)			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 39	IPP Substation	The floor of the bund must be sloped, draining to an oil separator			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				

PLANNING AND DESIGN (INCLUDING PRE-CONSTRUCTION) - HAZARDOUS SUBSTANCE										
Location	Applicable EMPr	Environmental Specification	Compliance		Score	Comment	If no, corrective action	Timeframe/Frequency	Responsibility	Photo record ref No/Doc No
			Yes	No						
EMPr, pg. 39	IPP Substation	Provision must be made for refueling at the storage area by protecting the soil with an impermeable groundcover. Where dispensing equipment is used, a drip tray must be used to ensure small spills are contained			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 39	IPP Substation	All empty externally dirty drums must be stored on a drip tray or within a bunded area			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 39	IPP Substation	No unauthorised access into the hazardous substances storage areas must be permitted			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 39	IPP Substation	No smoking must be allowed within the vicinity of the hazardous storage areas			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 39	IPP Substation	Adequate fire-fighting equipment must be made available at all hazardous storage areas			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 39	IPP Substation	Where refueling away from the dedicated refueling station is required, a mobile refueling unit must be used. Appropriate ground protection such as drip trays must be used			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 39	IPP Substation	An appropriately sized spill kit kept onsite relevant to the scale of the activity/s involving the use of hazardous substance must be available at all times			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 39	IPP Substation	The responsible operator must have the required training to make use of the spill kit in emergency situations			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 40	IPP Substation	An appropriate number of spill kits must be available and must be located in all areas where activities are being undertaken			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
EMPr, pg. 40	IPP Substation	In the event of a spill, contaminated soil must be collected in containers and stored in a central location and disposed of according to the National Environmental Management: Waste Act 59 of 2008. Refer to Section 5.7 for procedures concerning storm and waste water management and 5.8 for solid and hazardous waste management			N/A	This condition was applicable during the construction phase of the project. The project is in the operational phase.				
					0					
TOTAL SCORE					N/A					
AS AVERAGE										
AS PERCENTAGE										

Each element of the checklist is scored on the following basis:

- 3 - best practice/full compliance
- 2 - satisfactory (viz >50% compliance)
- 1 - unsatisfactory (viz <50% compliance)
- 0 - nothing in place
- n/a - not applicable

APPENDIX B

EA CHECKLIST

METHODOLOGY

Each element of the checklist is to be scored on the following basis:

3 - Best practice/Full compliance

2 - Satisfactory/Partial Compliance

1 - Unsatisfactory

0 - Nothing in place/No compliance

The total score, average score and percentage compliance for each aspect (all elements) is calculated

ACCESS ROAD ENVIRONMENTAL AUTHORISATION CHECKLIST FOR KESTREL MTS, 400KV LILO POWER LINES, ACCESS ROAD AND LAYDOWN AREA PROJECT SITUATED ON THE REMAINING EXTENT OF WAGT EN BITTJE NO.5 DE AAR, NORTHERN CAPE

Project: Kestrel MTS
 Holder of authorisation: Mullio De Aar 2 South (Pty) Ltd
 Reference number: 14/12/16/3/3/1/2577/4
 Date issued (first issue): 17 May 2024

Amendment 1: 27 June 2024

Completed by: Oliver Ligege (ECO)

Kestrel MTS REF NO:14/12/16/3/3/1/2577/4 as amended

#	ENVIRONMENTAL AUTHORISATION CONDITION	Permit Type	Timeframe	Action/Info/comment	Corrective action	Compliance		Score
						YES	No	
SCOPE OF REGISTRATION								
1	The construction of the 400kv Kestrel MTS, Access Road and Laydown Area within the Remaining Extent of Wagt en Bittje No 5, De Aar, within Ward 8 of Emathanjeni Local Municipality, Northern Cape Province, is approved as per the geographic coordinates cited in the table above.	EA		The activities on site are located at the approved coordinates as verified during the audit.		✓		3
2	Authorisation of the activity is subject to the conditions contained in this Environmental Authorisation, which form part of the Environmental Authorisation and are binding on the holder of the authorisation.	EA		The EA holder is aware of this condition				N/A
3	The holder of the authorisation is responsible for ensuring compliance with the conditions contained in this Environmental Authorisation. This includes any person acting on the holder's behalf, including but not limited to, an agent, servant, contractor, sub-contractor, employee, consultant or person rendering a service to the holder of the authorisation.	EA		The EA holder is aware of this condition				N/A
4	The activities authorised may only be carried out at the property as described above.	EA		The activities are occurring at the approved location		✓		3
5	Any changes to, or deviations from, the project description set out in this Environmental Authorisation must be approved, in writing, by the Department before such changes or deviations may be effected. In assessing whether to grant such approval or not, the Department may request such information as it deems necessary to evaluate the significance and impacts of such changes or deviations and it may be necessary for the holder of the authorisation to apply for further Environmental Authorisation in terms of the regulations.	EA		The amendment of the EA to amend the activity description was approved on the 27th of June 2024		✓		3
6	The holder of an Environmental Authorisation must apply for an amendment of the Environmental Authorisation with the Competent Authority for any alienation, transfer or change of ownership rights in the property on which the activity is to take place.	EA		The holder in whose name the original EA was issued retains ownership of the EA.				N/A
7	This activity must commence within a period of ten (10) years from the date of issue of this Environmental Authorisation. If commencement of the activity does not occur within that period, the authorisation lapses and a new application for Environmental Authorisation must be made in order for the activity to be undertaken.	EA		The commenced within 10 years from the date of issue of the EA.		✓		3

8	Construction must be completed within five (05) years of the commencement of the activity on site.	EA		The construction was completed within 3 years of the commencement of the activity. The construction was completed in July 2026.		✓		3
9	commencement with one activity listed in terms of this environmental authorisation constitutes commencement of all authorised activities.	EA		This condition is not auditable as it is a statement rather than a condition that needs to be complied with.				N/A
NOTIFICATION OF AUTHORISATION AND RIGHT TO APPEAL								
10	The holder of the authorisation must notify every registered interested and affected party, in writing and within 14 (fourteen) calendar days of the date of this Environmental Authorisation, of the decision to authorise the activity.	EA		The notification was submitted to the interested and affected parties as verified during the audit		✓		3
11	11.The notification referred to must — 11.1. specify the date on which the authorisation was issued; 11.2. inform the interested and affected party of the appeal procedure provided for in the National Appeal Regulations, 2014; 11.3. advise the interested and affected party that a copy of the authorisation will be furnished on request; and 11.4. give the reasons of the Competent Authority for the decision.	EA		The notification complied with this condition		✓		3
COMMENCEMENT OF THE ACTIVITY								
12	The authorised activity shall not commence until the period for the submission of appeals has lapsed as per the National Appeal Regulations, 2014, and no appeal has been lodged against the decision. In terms of Section 43(7), an appeal under Section 43 of the National Environmental Management Act, Act No. 107 of 1998, as amended will suspend the Environmental Authorisation or any provision or condition attached thereto. In the instance where an appeal is lodged you may not commence with the activity until such time that the appeal has been finalised.	EA		The project commenced after the appeals period.		✓		3
MANAGEMENT OF THE ACTIVITY								
13	The layout map dated March 2024 and the attached as Appendix 10 to the Environmental Authorisation Amendment Application Form submitted as part of the request for additional information for the application for amendment of the Environmental Authorisation dated 22 November 2022 is hereby approved.	EA		The project was constructed according to the approved layout, as verified during the audit		✓		3
14	The Generic Environmental Management Programme (EMPr) submitted as part of the EA Amendment Application Form and attached as Appendix 11, is approved and must be implemented and adhered to.	EA		The EMPr is still being adhered to, as verified during the audit.		✓		3
15	The EMPr must be implemented and strictly enforced during all phases of the project. It must be seen as a dynamic document and must be included in all contract documents for all phases of the development when approved.	EA		The EMPr is being implemented during the operational phase of the project.		✓		3
16	Changes to the approved EMPrs must be submitted in accordance with the EIA Regulations applicable at the time.	EA		The EMPr has not yet been amended				N/A
17	The Department reserves the right to amend the approved EMPr, should any impacts that were not anticipated or covered in the BAR be discovered.	EA		The EMPr has not yet been amended				N/A
FREQUENCY AND PROCESS OF UPDATING THE EMPr								
18	The EMPr must be updated where the findings of the environmental audit reports, contemplated in Condition 25 below, indicate insufficient mitigation of environmental impacts associated with the undertaking of the activity, or insufficient levels of compliance with the environmental authorisation or EMPr.	EA		The EMPr has not yet been amended				N/A

19	The updated EMPr must contain recommendations to rectify the shortcomings identified in the environmental audit report.	EA		The EMPr has not yet been amended				N/A
20	The updated EMPr must be submitted to the Department for approval together with the environmental audit report, as per Regulation 34 of the EIA Regulations, 2014 as amended. The updated EMPr must have been subjected to a public participation process, which process has been agreed to by the Department, prior to submission of the updated EMPr to the Department for approval.	EA		The EMPr has not yet been amended				N/A
21	In assessing whether to grant approval of an EMPr which has been updated as a result of an audit, the Department will consider the processes prescribed in Regulation 35 of the EIA Regulations, 2014 as amended. Prior to approving an amended EMPr, the Department may request such amendments to the EMPr as it deems appropriate to ensure that the EMPr sufficiently provides for avoidance, management and mitigation of environmental impacts associated with the undertaking of the activity.	EA		The EMPr has not yet been amended				N/A
22	The holder of the authorisation must apply for an amendment of an EMPr, if such amendment is required before an audit is required. The amendment process is prescribed in Regulation 37 of the EIA Regulations, 2014, as amended. The holder of the authorisation must request comments on the proposed amendments to the impact management outcomes of the EMPr or amendments to the closure objectives of the closure plan from potentially interested and affected parties, including the competent authority, by using any of the methods provided for in the Act for a period of at least 30 days.	EA		The EMPr has not yet been amended				N/A
MONITORING								
23	The holder of the authorisation must appoint an experienced Environmental Control Officer (ECO) for the construction phase of the development that will have the responsibility to ensure that the mitigation/rehabilitation measures and recommendations referred to in this environmental authorisation are implemented and to ensure compliance with the provisions of the approved EMPrs. 23.1. The ECO must be appointed before commencement of any authorised activities. 23.2 Once appointed, the name and contact details of the ECO must be submitted to the Director: Compliance Monitoring of the Department. 23.3. The ECO must keep record of all activities on site, problems identified, transgressions noted, and a task schedule of tasks undertaken by the ECO. 23.4 The ECO must remain employed until all rehabilitation measures, as required for implementation due to construction damage, are completed and the site is ready for operation.	EA		Chandre de Waard from Amathemba was contracted as the ECO until the project reached COD.		✓		3
RECORDING AND REPORTING TO THE DEPARTMENT								
24	All documentation e.g., audit/monitoring/compliance reports and notifications, required to be submitted to the Department in terms of this environmental authorisation, must be submitted to the Director: Compliance Monitoring of the Department.	EA		The ECO reports were submitted to the department as verified during the audit. This audit report will be submitted to the department as well.		✓		3
25	The holder of the environmental authorisation must, for the period during which the environmental authorisation and EMPrs remain valid, ensure that project compliance with the conditions of the environmental authorisation and the EMPrs are audited, and that the audit reports are submitted to the Director: Compliance Monitoring of the Department.	EA		The audit report is in line with this condition.		✓		3
26	The frequency of auditing and of submission of the environmental audit reports must be as per the frequency indicated in the EMPr, considering the processes for such auditing as prescribed in Regulation 34 of the EIA Regulations, 2014 as amended.	EA		The audit report is in line with this condition. The annual audits have not yet commenced.		✓		3
27	The holder of the authorisation must, in addition, submit an environmental audit report to the Department within 30 days of completion of the construction phase (i.e., within 30 days of site handover) and a final environmental audit report within 30 days of completion of rehabilitation activities.	EA		This closeout audit report will be submitted within 30 days of the site handover.		✓		3
28	The environmental audit reports must be compiled in accordance with Appendix 7 of the EIA Regulations, 2014 as amended and must indicate the date of the audit, the name of the auditor and the outcome of the audit in terms of compliance with the environmental authorisation conditions as well as the requirements of the approved EMPr.	EA		The report has been drafted according to Appendix 7 of the EIA regulation.		✓		3

29	Records relating to monitoring and auditing must be kept on site and made available for inspection to any relevant and competent authority in respect of this development.	EA		The records are kept in the environmental file as verified during the audit.		✓		3
NOTIFICATIONS TO AUTHORITIES								
30	A written notification of commencement must be given to the Department no later than fourteen (14) days prior to the commencement of the activity. Commencement for the purposes of this condition includes site preparation. The notice must include a date on which it is anticipated that the activity will commence, as well as a reference number.	EA		The notification was sent to the department on 16 September 2024. The construction phase commenced on 01 October 2024.		✓		3
OPERATION OF THE ACTIVITY								
31	A written notification of operation must be given to the Department no later than fourteen (14) days prior to the commencement of the activity operational phase.	EA		The notification was sent to the department on 14 May 2026. The project was energised on the 31st of July 2026.		✓		3
SITE CLOSURE AND DECOMMISSIONING								
32	Should the activity ever cease or become redundant, the holder of the authorisation must undertake the required actions as prescribed by legislation at the time and comply with all relevant legal requirements administered by any relevant and Competent Authority at that time.	EA		The project is currently in the first year of the operational phase.		✓		3
SITE CONDITIONS								
33	The footprint of the development must be limited to the areas required for actual construction works and operational activities.	EA		The footprint is limited to the operational areas. No deviations were noted during the audit.		✓		3
34	Should any archaeological sites, artefacts, paleontological fossils or graves be exposed during construction work, work in the immediate vicinity of the find must be stopped, the South African Heritage Resource agency (SAHRA) must be informed and the services of an accredited heritage professional obtained for an assessment of the heritage resource.	EA		No archaeological artefacts were discovered during this audit period				N/A
35	All declared aliens must be identified and managed in accordance with the Conservation of Agricultural Resources Act, 1983 (Act No. 43 of 1983).	EA		The alien plants are being managed as per this condition. During the construction phase, the contractor was manually removing the plants.		✓		3
36.	Anti-collision devices such as birds flappers must be installed where power line cross avifaunal corridors, as recommended by the Ecological specialist.	EA		The bird diverters have been installed as verified during the audit.		✓		3
37.	No exotic plants must be used for rehabilitation purposes. Only indigenous plants of the area must be used.	EA		No exotic plants were used during the rehabilitation of disturbed areas.		✓		3
38.	The protected tree <i>Boscia albitrunca</i> must not be removed from project site without the relevant permit.	EA		These trees were not removed on site. The permit that was issued for the project did not include these trees				N/A
39.	Vegetation clearing must be kept to an absolute minimum. Mitigation measures as specified in the BAR dated September 2022 must be implemented to reduced the risk of erosion and the invasion of alien species.	EA		Vegetation clearing was limited only to the construction footprint, as verified during the audit.		✓		3
40.	Construction must include design measures that allow surface and subsurface movement of water along drainage lines so as not to impede natural surface and subsurface flows. Drainage measures must promote the dissipation of storm water run-off.	EA		The roads have stormwater drainage features that promote the dissipation of stormwater runoff.		✓		3
41.	An integrated waste mangement approach must be implemented that is based in waste minimisation and must incorporate reduction, recycling, re-use and disposal where appropriate. Any solid waste must be disposed of at a landfill licensed in terms of Section 20 (b) of the National Environmental Management Waste Act, 2008 (Act No. 59 of 2008).	EA		The project is currently not generating any waste. The MTS is operational, and there is no staff on site.				N/A
GENERAL								
42	A copy of this Environmental Authorisation, the audit and compliance monitoring reports, and the approved EMPr, must be made available for inspection and copying- 42.1 at the site of the authorised activity; 42.2 to anyone on request; and 42.3 where the holder of the Environmental Authorisation has a website, on such publicly accessible website.	EA		These will be made available to anyone on request				N/A

43	National government, provincial government, local authorities or committees appointed in terms of the conditions of this authorisation or any other public authority shall not be held responsible for any damages or losses suffered by the holder of the authorisation or his/her successor in title in any instance where construction or operation subsequent to construction be temporarily or permanently stopped for reasons of non-compliance by the holder of the authorisation with the conditions of authorisation as set out in this document or any other subsequent document emanating from these conditions of authorisation.	EA		This condition is not auditable as it is a statement rather than a condition that needs to be complied with.				N/A
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TOTAL SCORE
AS AVERAGE
AS PERCENTAGE

81
3.0
100.0

3 - best practice/full compliance
2 - satisfactory (viz >50% compliance)
1 - unsatisfactory (viz <50% compliance)
0 - nothing in place
n/a - not applicable

Each element of the checklist is scored on the following basis:
3 - best practice/full compliance
2 - satisfactory (viz >50% compliance)
1 - unsatisfactory (viz <50% compliance)
0 - nothing in place
n/a - not applicable

APPENDIX C
AUDITOR'S CV

CURRICULUM VITAE OF AMPFARISAHO OLIVER LIGEGE

(Comprehensive CV)

Profession : Environmental Compliance and Assessment Consultant

Specialisation: Environmental Compliance, Water Use License Application report writing, report reviewing for various Environmental Projects

Work Experience: 7 years

VOCATIONAL EXPERIENCE

I hold a Bachelor of Environmental Sciences degree. I am registered as a candidate natural scientist with SACNASP (122282) and a candidate EAP with EAPASA (2019/1044). Over the past seven years, I have gained experience from projects involving Geohydrology, Nature Conservation, Road construction, and Renewable Energy.

I am an Environmental Compliance and Assessment Consultant for Savannah Environmental. As an Environmental Compliance and Assessment Consultant, I have gained extensive experience in auditing as the ECO and lead auditor for various construction, power station and renewable energy projects.

SKILLS BASE AND CORE COMPETENCIES

- Environmental Compliance
- Water quality monitoring and reporting
- Water Use Licence Application
- Nature Conservation
- Geohydrological study
- Environmental Management systems (ISO 14001)
- Environmental compliance, legal auditing, and report writing
- Environmental Management
- Implementation of Environmental Management Plans
- Waste management and recycling

EDUCATION AND PROFESSIONAL STATUS

Degrees:

- Bachelor of Environmental Sciences

Short Courses:

- Geographical Information System (University of Venda)
- Certificate of completion: Specialized module on Human health and climate change
- Certificate of completion: Environmental and social framework-ESF fundamentals
- Cartography (Esri)
- ISO 9001:2015-Quality Management System
- ISO 45001:2018-Principles of Occupational Health Safety Management Systems
- ISO 14001:2015-Environmental Management Systems
- Certificate of completion: Groundwater Quality in Transboundary Aquifers
- Introduction to ESG

Professional Society Affiliations:

- SACNASP (Cand. Sci. Nat)
- EAPASA (Candidate EAP)

EMPLOYMENT

Date	Company	Roles and Responsibilities
August 2023- Current:	Savannah Environmental (Pty) Ltd	Environmental Compliance and Assessment Consultant <u>Tasks included:</u> Drafting Budgets and proposals for new projects Water Use License Application Environmental Authorisation amendments Drafting EMPs Environmental Officer duties Environmental Control Officer Duties
March 2023- August 2023	Laingsburg Local Municipality	Environmental Officer <u>Tasks included:</u> Supervise Environmental projects under EPWP. Planned, developed, and controlled the environmental conservation of the municipality's natural environment. Liaise with different stakeholders about the management of sensitive and protected areas. Comment on Environmental Impact assessment applications. Initiate Environmental Management Systems, Programs and Plans, and monitor implementation compliance. Draft Organic Waste Diversion Plan and Integrated Waste Management Plan. Capture water analysis on IRIS. Apply for funding for Environmental projects. Dumpy level survey using a Dumpy level set.
October 2022- March 2023	Table Mountain National Park	Conservator <u>Tasks included:</u> Environmental Education and Youth Development. Law Enforcement and Anti-poaching duties.

Date	Company	Roles and Responsibilities
		Environmental Control Officer duties. Survey and map alien vegetation and also supervise alien plant clearing. Wildfire management and suppression. Conduct field and marine surveys. Cashier at picnic areas.
December 2021- May 2022	Statistics South Africa	Field Operations Officer Tasks included: Conduct stakeholder engagement. Carryout administrative duties within the field operation officer's unit Train fieldworkers and fieldwork supervisors. Conduct publicity at the gatekeeper level. Distribute work materials to fieldworkers and fieldwork supervisors. Sign off on the work done by fieldworkers and fieldwork supervisors. Conduct control visits. Enumerate households, transients, homeless and special dwelling institutions. Assist fieldworkers or fieldwork supervisors with any IT-related queries. Drive Fieldworkers to and from their respective Fieldwork Units Conduct Special dwelling unit profiling. Attend to any escalated work from fieldworkers and fieldwork supervisors. Liaise with the District office and the field staff.
January 2019- November 2021	Naledzi Environmental Consultants	Environmental Consultant Tasks included: Carrying out water use license applications. Environmental Control Officer duties Drafting a basic assessment report and scoping report. Drafting rehabilitation plans and Environmental impact reports. Water sample collection and results analysis. Carrying out a geohydrological study, which includes hydro-census, groundwater exploration, supervision of drilling and pump testing and writing a geohydrological report.

PROJECT EXPERIENCE

Environmental Management Programmes

Project Name & Location	Client Name	Role
Rand Water Panfontein stockpile pad. Gauteng Province	Unik Construction	Environmental Consultant

Gabosch Dam. Mpumalanga Province	Unik Construction	Environmental Consultant
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Water Use Applications

Project Name	Client Name	Role
Buffelspoort WULA	Buffelspoort Solar Project	Environmental Consultant
Karee GA	Sibanye Stillwater	Environmental Consultant
Upington GA	Sublunary trading	Environmental Consultant
Marikana GA	Sibanye Stillwater	Environmental Consultant
Impofu GA	Enel Green Power	Environmental Consultant
Kathu WULA	Kathu Solar Park	Environmental Consultant
CCJ GA	Country Club Johannesburg	Environmental Consultant
Upilanga WULA	Upilanga Green H2 (Pty) Ltd	Environmental Consultant
Kiara PV GA	Voltalia South Africa (Pty) Ltd	Environmental Consultant
Steamboat Graphite WULA	Cuchron (Pty) Ltd	Environmental Consultant
Rooikoppies BESS GA	Mulilo	Environmental Consultant
Great Karoo WULA	Great Karoo Renewable Energy (Pty) Ltd	Environmental Consultant
Khi Solar One WULA	Grupocox	Environmental Consultant
Pienaarspoort WEF and grid	ABO	Environmental Consultant
Siyanda GA	SOLINK	Environmental Consultant
Harmony GA	Harmony	Environmental Consultant
Bolobedu PV	Voltalia South Africa (Pty) Ltd	Environmental Consultant

Environmental Compliance, Auditing and ECO

Project Name & Location	Client Name	Role
Construction of Amsterdam Bulk Water Supply Scheme: Phase 4 (Gabosch Dam Construction), Mpumalanga Province	UNIK Civil Engineering (Pty) Ltd	ECO
Construction of Thungela Lephalale Coalbed Methane Project, Limpopo Province	Thungela	ECO
Construction of Lichtenburg 1PV facility, North-West Province	ABO Wind Lichtenburg 1 PV (RF) (Pty) Ltd	ECO
Construction of Umbila Emoyeni Wind Farm. Mpumalanga Province	Seriti Green	ECO
Construction of Grootspuit Solar PV. Free State Province	Engie South Africa	ECO
Construction of Graspan Solar PV. Northern Cape Province	Engie South Africa	ECO
Construction of Sun-Central Cluster 1 PV Plant. Northern Cape Province	SolarAfrica Energy (Pty) Ltd	ECO
Kelvin Power Station WUL audit, Gauteng Province	Kelvin Power	Auditor
Legal audit at the Tutuka Power Station, Mpumalanga Province	Eskom Holdings SOC Ltd	Auditor
Legal audit at Hendrina Power Station, Mpumalanga Province	Eskom Holdings SOC Ltd	Auditor
WUL audit at Kriel Power Station, Mpumalanga Province	Eskom Holdings SOC Ltd	Auditor

WUL audit at Kilbarchan Colliery, KwaZulu -Natal Province	Eskom Holdings SOC Ltd	Auditor
WUL audit at Karoshoek Solar One CSP, Northern Cape Province	Karoshoek Solar One (RF)	Auditor



**Environmental Assessment
Practitioners Association
of South Africa**



Registration No. 2019/1044

Herewith certifies that
AMPFARISAHO OLIVER LIGEGE
is registered as an
Candidate Environmental Assessment Practitioner

**Registered in accordance with the prescribed criteria of Regulation 15. (1)
of the Section 24H Registration Authority Regulations
(Regulation No. 849, Gazette No. 40154 of 22 July 2016, of the
National Environmental Management Act (NEMA), Act No. 107 of 1998, as amended).**

Effective: 01 April 2026

Expires: 31 March 2027

Chairperson

Registrar

