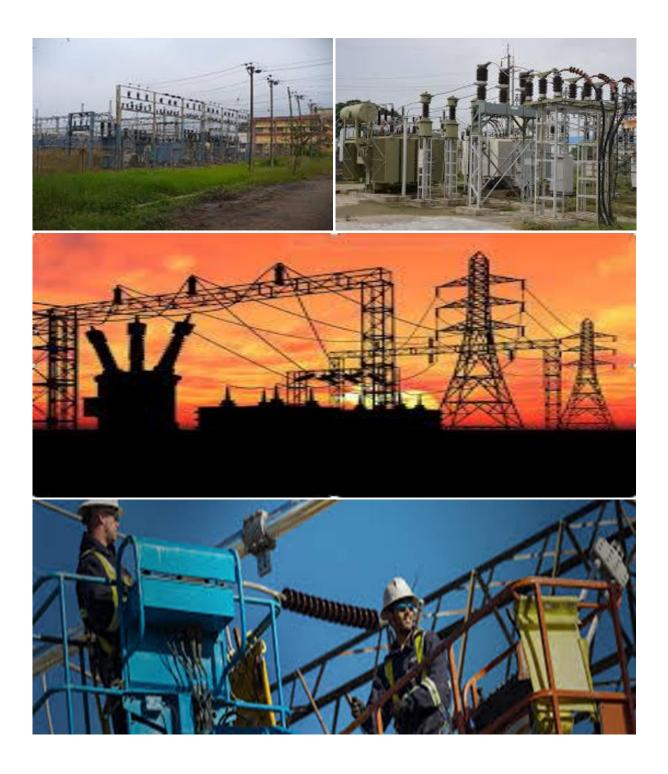
ESTABLISHMENT OF 132kV GRID CONNECTION INFRASTRUCTURE FOR THE WOODHOUSE 1 AND WOODHOUSE 2 SOLAR ENERGY FACILITIES, NORTH WEST PROVINCE

Transmission and Distribution Infrastructure Generic Environmental Management Programme (EMPR) – Collector Substation

September 2021

GENERIC ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr) FOR THE DEVELOPMENT AND EXPANSION OF SUBSTATION INFRASTRUCTURE FOR THE TRANSMISSION AND DISTRIBUTION OF ELECTRICITY





environmental affairs

Department: Environmental Affairs REPUBLIC OF SOUTH AFRICA

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INTRODUCTION

1. Background

The National Environmental Management Act, 1998 (Act No. 107 of 1998) (NEMA) requires that an environmental management programme (EMPr) be submitted where an environmental impact assessment (EIA) has been identified as the environmental instrument to be utilised as the basis for a decision on an application for environmental authorisation (EA). The content of an EMPr must either contain the information set out in Appendix 4 of the Environmental Impact Assessment Regulations, 2014, as amended (EIA Regulations) or must be a generic EMPr relevant to an application as identified and gazetted by the Minister in a government notice. Once the Minister has identified, through a government notice that a generic EMPr is relevant to an application for EA, that generic EMPr must be applied by all parties involved in the EA process, including but not limited to the applicant and the competent authority (CA).

2. Purpose

This document constitutes a generic EMPr relevant to applications for the development or expansion of substation infrastructure for the transmission and distribution of electricity, and all listed and specified activities necessary for the realisation of such infrastructure.

3. Objective

The objective of this generic EMPr is to prescribe and pre-approve generally accepted impact management outcomes and impact management actions, which can commonly and repeatedly be used for the avoidance, management and mitigation of impacts and risks associated with the development or expansion of substation infrastructure for the transmission and distribution of electricity. The use of a generic EMPr is intended to reduce the need to prepare and review individual EMPrs for applications of a similar nature.

4. Scope

The scope of this generic EMPr applies to the development or expansion of substation infrastructure for the transmission and distribution of electricity requiring EA in terms of NEMA. This generic EMPr applies to activities requiring EA, mainly activity 11 and 47 of the Environmental Impact Assessment Regulations Listing Notice 1 of 2014, as amended, and activity 9 of the Environmental Impact Assessment Regulations Listing Notice 2 of 2014, as amended, and all associated listed or specified activities necessary for the realization of such infrastructure.

5. Structure of this document

Part	Section	Heading	Content
A		Provides general guidance and information and is not legally binding	Definitions, acronyms, roles & responsibilities and documentation and reporting.
В	1	Pre-approved generic EMPr template	Contains generally accepted impact management outcomes and impact management actions required for the avoidance, management and mitigation of impacts and risks associated with the development or expansion of substation infrastructure for the transmission and distribution of electricity, which are presented in the form of a template that has been pre- approved.
			The template in this section is to be completed by the contractor, with each completed page signed and dated by the holder of the EA prior to commencement of the activity.
			Where an impact management outcome is not relevant, the words "not applicable" can be inserted in the template under the "responsible persons" column.
			Once completed and signed, the template represents the EMPr for the activity approved by the CA and is legally binding. The template is not required to be submitted to the CA as once the generic EMPr is gazetted for implementation, it has been approved by the CA.
			To allow interested and affected parties access to the pre-approved EMPr template for consideration through the decision-making process, the EAP on behalf of the applicant /proponent must make the hard copy of this EMPr available at a public location and where the applicant has a website, the EMPr should also be made available on such publicly accessible website.
	2	Site specific information	Contains preliminary infrastructure layout and a declaration that the applicant/holder of the EA

This document is structured in three parts with an Appendix as indicated in the table below:

Part	Section	Heading	Content
			will comply with the pre-approved generic EMPr template contained in <u>Part B: Section 1</u> , and understands that the impact management outcomes and impact management actions are legally binding . The preliminary infrastructure layout must be finalized to inform the final EMPr that is to be submitted with the basic assessment report (BAR) or environmental impact assessment report (EIAR), ensuring that all impact management outcomes and impact management actions have been either pre- approved or approved in terms of <u>Part C</u> . This section must be submitted to the CA together with the final BAR or EIAR. The information submitted to the CA will be considered to be incomplete should a signed copy of <u>Part B: section 2</u> not be submitted. Once approved, this Section forms part of the EMPr for
С		Site specific sensitivities/ attributes	the development and is legally binding. If any specific environmental sensitivities/ attributes are present on the site which require site specific impact management outcomes and impact management actions, not included in the pre-approved generic EMPr, to manage impacts, these specific impact management outcomes and impact management actions must be included in this section. These specific environmental attributes must be referenced spatially and impact management outcomes and impact management actions must be provided. These specific impact management outcomes and impact management actions must be presented in the format of the pre- approved EMPr template (Part B: section 1)
			This section will not be required should the site contain no specific environmental sensitivities or attributes. However, if <u>Part C</u> is applicable to the site, it is required to be submitted together with the BAR or EIAR, for consideration of, and decision on, the application for EA. The information in this section must be prepared by an EAP and must contain his/her name and expertise including a curriculum vitae. Once

Part	Section	Heading	Content
			approved, Part C forms part of the EMPr for the site and is legally binding.
			This section applies only to additional impact management outcomes and impact management actions that are necessary for the avoidance, management and mitigation of impacts and risks associated with the specific development or expansion and which are not already included in <u>Part B: section 1</u> .
Арре	endix 1		Contains the method statements to be prepared prior to commencement of the activity. The method statements are not required to be submitted to the competent authority.

6. Completion of part B: section 1: the pre-approved generic EMPr template

The template is to be completed prior to commencement of the activity, by providing the following information for each environmental impact management action:

- For implementation
 - a 'responsible person',
 - a method for implementation,
 - a timeframe for implementation
- For monitoring
 - a responsible person
 - frequency
 - evidence of compliance.

The completed template must be signed and dated by the holder of the EA prior to commencement of the activity. The method statements prepared and agreed to by the holder of the EA must be appended to the template as <u>Appendix 1</u>. Each method statement must be signed and dated on each page by the holder of the EA. This template once signed and dated is legally binding. The holder of the EA will remain responsible for its implementation.

7. Amendments of the impact management outcomes and impact management actions

Once the activity has commenced, a holder of an EA may make amendments to the impact management outcomes and impact management actions in the following manner:

- Amendment of the impact management outcomes: in line with the process contemplated in Regulation 37 of the EIA Regulations; and
- Amendment of the impact management actions: in line with the process contemplated in Regulation 36 of the EIA Regulations.

8. Documents to be submitted as part of part B: section 2 site specific information and declaration

<u>Part B: Section 2</u> has three distinct sub-sections. The first and third sub-sections are in a template format. Sub-section two requires a map to be produced.

<u>Sub-section 1</u> contains the project name, the applicant's name and contact details, the site information, which includes coordinates of the property or farm in which the proposed substation infrastructure is proposed as well as the 21-digit Surveyor General code of each cadastral land parcel and, where available, the farm name.

<u>Sub-section 2</u> is to be prepared by an EAP and must contain his/her name and expertise including a curriculum vitae. This sub-section must include a map of the site sensitivity overlaid with the preliminary infrastructure layout using the national web based environmental screening tool, when available for compulsory use at: <u>https://screening.environment.gov.za/screeningtool.</u> The sensitivity map shall identify the nature of each sensitive feature e.g. threatened plant species, archaeological site, etc. Sensitivity maps shall identify features both within the planned working area and any known sensitive features and within 50 m from the development footprint.

<u>Sub-section 3</u> is the declaration that the applicant (s)/proponent (s) or holder of the EA in the case of a change of ownership must complete which confirms that the applicant/EA holder will comply with the pre-approved 'generic EMPr' template in <u>Section 1</u> and understands that the impact management outcomes and impact management actions are legally binding.

(a) Amendments to Part B: Section 2 – site specific information and declaration

Should the EA be transferred, <u>Part B: Section 2</u> must be completed by the new applicant/proponent and submitted with the application for an amendment of the EA in terms of regulations 29 or 31 of the EIA Regulations, whichever applies. The information submitted as part of such an application for an amendment to an EA will be considered to be incomplete should a signed copy of <u>Part B: Section 2</u> not be submitted. Once approved, <u>Part B: Section 2</u> forms part of the EMPr for the development and the EMPr becomes legally binding to the new EA holder.

PART A – GENERAL INFORMATION

1. **DEFINITIONS**

In this EMPr any word or expression to which a meaning has been assigned in the NEMA or EIA Regulations has that meaning, and unless the context requires otherwise –

"clearing" means the clearing and removal of vegetation, whether partially or in whole, including trees and shrubs, as specified;

"construction camp" is the area designated for key construction infrastructure and services, including but not limited to offices, overnight vehicle parking areas, stores, the workshop, stockpile and lay down areas, hazardous 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;

"contractor" - The Contractor has overall responsibility for ensuring that all work, activities, and actions linked to the delivery of the contract, are in line with the Environmental Management Programme and that Method Statements are implemented as described.

"hazardous substance" is a substance governed by the Hazardous Substances Act, 1973 (Act No. 15 of 1973) as well as the Hazardous Chemical and Substances Regulations, 1995;

"method statement" means a written submission by the Contractor to the Project Manager in response to this EMPr or a request by the Project Manager and ECO. The method statement must set out the equipment, materials, labour and method(s) the Contractor proposes using to carry out an activity identified by the Project Manager when requesting the Method Statement. This must be done in such detail that the Project Manager and ECO is able to assess whether the Contractor's proposal is in accordance with this specification and/or will produce results in accordance with this specification;

The method statement must cover as a minimum applicable details with regard to:

- (i) Construction procedures;
- (ii) Plant, materials and equipment to be used;
- (iii) Transporting the equipment to and from site;
- (iv) How the plant/ material/ equipment will be moved while on site;
- (v) How and where the plant/ material/ equipment will be stored;
- (vi) The containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur;
- (vii) Timing and location of activities;
- (viii) Compliance/ non-compliance; and
- (ix) Any other information deemed necessary by the Project Manager.

"slope" means the inclination of a surface expressed as one unit of rise or fall for so many horizontal units;

"**solid waste**" means all solid waste, including construction debris, hazardous waste, excess cement/ concrete, wrapping materials, timber, cans, drums, wire, nails, food and domestic waste (e.g. plastic packets and wrappers);

"spoil" means excavated material which is unsuitable for use as material in the construction works or is material which is surplus to the requirements of the construction works;

"topsoil" means a varying depth (up to 300 mm) of the soil profile irrespective of the fertility, appearance, structure, agricultural potential, fertility and composition of the soil;

"works" means the works to be executed in terms of the Contract

2. ACRONYMS and ABBREVIATIONS

CA	Compotent Authority
-	Competent Authority
cEO	Contractors Environmental Officer
dEO	Developer Environmental Officer
DPM	Developer Project Manager
DSS	Developer Site Supervisor
EAR	Environmental Audit Report
ECA	Environment Conservation Act No. 73 of 1989
ECO	Environmental Control Officer
EA	Environmental Authorisation
EIA	Environmental Impact Assessment
ERAP	Emergency Response Action Plan
EMPr	Environmental Management Programme
	Report
EAP	Environmental Assessment Practitioner
FPA	Fire Protection Agency
HCS	Hazardous chemical Substance
NEMA	National Environmental Management Act, 1998 (Act No. 107 of 1998)
NEMBA	National Environmental Management: Biodiversity Act ,2004 (Act No. 10 of 2004)
NEMWA	National Environmental Management:
	Waste Act, 2008 (Act No. 59 of 2008)
MSDS	Material Safety Data Sheet
RI&APs	Registered Interested and affected parties

3. ROLES AND RESPONSIBILITIES FOR ENVIRONMENTAL MANAGEMENT PROGRAMME (EMPr) IMPLEMENTATION

The effective implementation of this generic EMPr is dependent on established and clear roles, responsibilities and reporting lines within an institutional framework. This section of the EMPr gives guidance to the various environmental roles and reporting lines, however, project specific requirements will ultimately determine the need for the appointment of specific person(s) to undertake specific roles and or responsibilities. As such, it must be noted that in the event that no specific person, for example, an environmental control officer (ECO) is appointed, the holder of the EA remains responsible for ensuring that the duties indicated in this document for action by the ECO are undertaken.

Responsible Person(s)	Role and Responsibilities
Developer's Project Manager (DPM)	Role The Project Developer is accountable for ensuring compliance with the EMPr and any conditions of approval from the competent authority (CA). Where required, an environmental control officer (ECO) must be contracted by the Project Developer to objectively monitor the implementation of the EMPr according to relevant environmental legislation, and the conditions of the environmental authorisation (EA). The Project Developer is further responsible for providing and giving mandate to enable the ECO to perform responsibilities, and he must ensure that the ECO is integrated as part of the project team while remaining independent. Responsibilities - Be fully conversant with the conditions of the EA; - Ensure that all stipulations within the EMPr are communicated and adhered to by the Developer and its Contractor(s); - Issuing of site instructions to the Contractor for corrective actions required; - Monitor the implementation of the EMPr throughout the project by means of site inspections and meetings. Overall management of the project and EMPr implementation; and - Ensure that periodic environmental performance audits are undertaken on the project implementation.

Table 1: Guide to roles and responsibilities for implementation of an EMPr

Responsible Person(s)	Role and Responsibilities
Developer Site Supervisor (DSS)	Role The DSS reports directly to the DPM, oversees site works, liaises with the contractor(s) and the ECO. The DSS is responsible for the day to day implementation of the EMPr and for ensuring the compliance of all contractors with the conditions and requirements stipulated in the EMPr.
	 <u>Responsibilities</u> Ensure that all contractors identify a contractor's Environmental Officer (cEO); Must be fully conversant with the conditions of the EA. Oversees site works, liaison with Contractor, DPM and ECO;
	 Must ensure that all landowners have the relevant contact details of the site staff, ECO and cEO; Issuing of site instructions to the Contractor for corrective actions required; Will issue all non-compliances to contractors; and Ratify the Monthly Environmental Report.
Environmental Control Officer (ECO)	Role The ECO should have appropriate training and experience in the implementation of environmental management specifications. The primary role of the ECO is to act as an independent quality controller and monitoring agent regarding all environmental concerns and associated environmental impacts. In this respect, the ECO is to conduct periodic site inspections, attend regular site meetings, pre-empt problems and suggest mitigation and be available to advise on incidental issues that arise. The ECO is also required to conduct compliance audits, verifying the monitoring reports submitted by the cEO. The ECO provides feedback to the DSS and Project Manager regarding all environmental matters. The Contractor, cEO and dEO are answerable to the Environmental Control Officer for non-compliance with the Performance Specifications as set out in the EA and EMPr.
	The ECO provides feedback to the DSS and Project Manager, who in turn reports back to the Contractor and potential and Registered Interested &Affected Parties (RI&APs), as required. Issues of non-compliance raised by the ECO must be taken up by the Project Manager, and resolved with the Contractor as per the conditions of his contract. Decisions regarding environmental procedures, specifications and requirements which have a cost implication (i.e. those that are deemed to be a variation, not allowed for in the

Responsible Person(s)	Role and Responsibilities
	Performance Specification) must be endorsed by the Project Manager. The ECO must also, as specified by the EA, report to the relevant CA as and when required.
	 <u>Responsibilities</u> The responsibilities of the ECO will include the following: Be aware of the findings and conclusions of all EA related to the development; Be familiar with the recommendations and mitigation measures of this EMPr; Be conversant with relevant environmental legislation, policies and procedures, and ensure compliance with them;
	 Undertake regular and comprehensive site inspections / audits of the construction site according to the generic EMPr and applicable licenses in order to monitor compliance as required; Educate the construction team about the management measures contained in the EMPr and environmental licenses; Compilation and administration of an environmental monitoring plan to ensure that the environmental
	 management measures are implemented and are effective; Monitoring the performance of the Contractors and ensuring compliance with the EMPr and associated Method Statements;
	 In consultation with the Developer Site Supervisor order the removal of person(s) and/or equipment which are in contravention of the specifications of the EMPr and/or environmental licenses; Liaison between the DPM, Contractors, authorities and other lead stakeholders on all environmental concerns;
	 Compile a regular environmental audit report highlighting any non-compliance issues as well as satisfactory or exceptional compliance with the EMPr; Validating the regular site inspection reports, which are to be prepared by the contractor Environmental Officer (cEO);
	 Checking the cEO's record of environmental incidents (spills, impacts, legal transgressions etc.) as well as corrective and preventive actions taken; Checking the cEO's public complaints register in which all complaints are recorded, as well as action taken;

Responsible Person(s)	Role and Responsibilities
	 Assisting in the resolution of conflicts; Facilitate training for all personnel on the site – this may range from carrying out the training, to reviewing the training programmes of the Contractor; In case of non-compliances, the ECO must first communicate this to the Senior Site Supervisor, who has the power to ensure this matter is addressed. Should no action or insufficient action be taken, the ECO may report this matter to the authorities as non-compliance; Maintenance, update and review of the EMPr; Communication of all modifications to the EMPr to the relevant stakeholders.
developer Environmental Officer (dEO)	Role The dEOs will report to the Project Manager and are responsible for implementation of the EMPr, environmental monitoring and reporting, providing environmental input to the Project Manager and Contractor's Manager, liaising with contractors and the landowners as well as a range of environmental coordination responsibilities.
	 Responsibilities Be fully conversant with the EMPr; Be familiar with the recommendations and mitigation measures of this EMPr, and implement these measures; Ensure that all stipulations within the EMPr are communicated and adhered to by the Employees, Contractor(s); Confine the development site to the demarcated area; Conduct environmental internal audits with regards to EMPr and authorisation compliance (on cEO); Assist the contractors in addressing environmental challenges on site; Assist in incident management: Reporting environmental incidents to developer and ensuring that corrective action is taken, and lessons learnt shared; Assist the contractor in investigating environmental incidents and compile investigation reports; Follow-up on pre-warnings, defects, non-conformance reports; Measure and communicate environmental performance to the Contractor;

Responsible Person(s)	Role and Responsibilities	
	- Conduct environmental awareness training on site together with ECO and cEO;	
	- Ensure that the necessary legal permits and / or licenses are in place and up to date;	
	 Acting as Developer's Environmental Representative on site and work together with the ECO and contractor; 	
Contractor	Role	
	The Contractor appoints the cEO and has overall responsibility for ensuring that all work, activities, and actions linked to the delivery of the contract are in line with the EMPr and that Method Statements are implemented as described. External contractors must ensure compliance with this EMPr while performing the onsite activities as per their contract with the Project Developer. The contractors are required, where specified, to provide Method Statements setting out in detail how the impact management actions contained in the EMPr will be implemented during the development or expansion of substation infrastructure for the transmission and distribution of electricity activities.	
	Responsibilities	
	 project delivery and quality control for the development services as per appointment; employ a suitably qualified person to monitor and report to the Project Developer's appointed person on the daily activities on-site during the construction period; 	
	 ensure that safe, environmentally acceptable working methods and practices are implemented and that equipment is properly operated and maintained, to facilitate proper access and enable any operation to be carried out safely; 	
	 attend on site meeting(s) prior to the commencement of activities to confirm the procedure and designated activity zones; 	
	 ensure that contractors' staff repair, at their own cost, any environmental damage as a result of a contravention of the specifications contained in EMPr, to the satisfaction of the ECO. 	
contractor Environmental Officer	Role	
(cEO)	Each Contractor affected by the EMPr should appoint a cEO, who is responsible for the on-site implementation of the EMPr (or relevant sections of the EMPr). The Contractor's representative can be the site agent; site engineer; a dedicated environmental officer; or an independent consultant. The Contractor	
	must ensure that the Contractor's Representative is suitably qualified to perform the necessary tasks and is	

Role and Responsibilities
appointed at a level such that she/he can interact effectively with other site Contractors, labourers, the Environmental Control Officer and the public. As a minimum the cEO shall meet the following criteria:
 Responsibilities Be on site throughout the duration of the project and be dedicated to the project; Ensure all their staff are aware of the environmental requirements, conditions and constraints with respect to all of their activities on site; Implementing the environmental conditions, guidelines and requirements as stipulated within the EA, EMPr and Method Statements; Attend the Environmental Site Meeting; Undertaking corrective actions where non-compliances are registered within the stipulated timeframes; Report back formally on the completion of corrective actions; Assist the ECO in maintaining all the site documentation; Prepare the site inspection reports and corrective action reports for submission to the ECO; Assist the ECO with the preparing of the monthly report; and Where more than one Contractor is undertaking work on site, each company appointed as a

4. ENVIRONMENTAL DOCUMENTATION REPORTING AND COMPLIANCE

To ensure accountable and demonstrated implementation of the EMPr, a number of reporting systems, documentation controls and compliance mechanisms must be in place for all substation infrastructure projects as a minimum requirement.

4.1 Document control/Filing system

The holder of the EA is solely responsible for the upkeep and management of the EMPr file. As a minimum, all documentation detailed below will be stored in the EMPr file. A hard copy of all documentation shall be filed, while an electronic copy may be kept where relevant. A duplicate file will be maintained in the office of the DSS (where applicable). This duplicate file must remain current and up-to-date. The filing system must be updated and relevant documents added as required. The EMPr file must be made available at all times on request by the CA or other relevant authorities. The EMPr file will form part of any environmental audits undertaken as prescribed in the EIA Regulations.

4.2 Documentation to be available

At the outset of the project the following preliminary list of documents shall be placed in the filing system and be accessible at all times:

- Full copy of the signed EA from the CA in terms of NEMA, granting approval for the development or expansion;
- Copy of the generic and site specific EMPr as well as any amendments thereof;
- Copy of declaration of implementing generic EMPr and subsequent approval of site specific EMPr and amendments thereof;
- All method statements;
- Completed environmental checklists;
- Minutes and attendance register of environmental site meetings;
- An up-to-date environmental incident log;
- A copy of all instructions or directives issued;
- A copy of all corrective actions signed off. The corrective actions must be filed in such a way that a clear reference is made to the non-compliance record;
- Complaints register.

4.3 Weekly Environmental Checklist

The ECOs are required to complete a Weekly Environmental Checklist, the format of which is to be agreed prior to commencement of the activity. The ECOs are required to sign and date the checklist, retain a copy in the EMPr file and submit a copy of the completed checklist to the DSS on a weekly basis.

The checklists will form the basis for the Monthly Environmental Reports. Copies of all completed checklists will be attached as Annexures to the Environmental Audit Report as required in terms of the EIA Regulations.

4.4 Environmental site meetings

Minutes of the environmental site meetings shall be kept. The minutes must include an attendance register and will be attached to the Monthly Report that is distributed to attendees. Each set of minutes must clearly record "Matters for Attention" that will be reviewed at the next meeting.

4.5 Required Method Statements

The method statement will be done in such detail that the ECOs are enabled to assess whether the contractor's proposal is in accordance with the EMPr.

The method statement must cover applicable details with regard to:

- development procedures;
- materials and equipment to be used;
- getting the equipment to and from site;
- how the equipment/ material will be moved while on site;
- how and where material will be stored;
- the containment (or action to be taken if containment is not possible) of leaks or spills of any liquid or material that may occur;
- timing and location of activities;
- compliance/ non-compliance with the EMPr; and
- any other information deemed necessary by the ECOs.

Unless indicated otherwise by the Project Manager, the Contractor shall provide the following method statements to the Project Manager no less than 14 days prior to the commencement date of the activity:

- Site establishment Camps, Lay-down or storage areas, satellite camps, infrastructure;
- Batch plants;
- Workshop or plant servicing;
- Handling, transport and storage of Hazardous Chemical Substance's;
- Vegetation management Protected, clearing, aliens, felling;
- Access management Roads, gates, crossings etc.;
- Fire plan;
- Waste management transport, storage, segregation, classification, disposal (all waste streams);
- Social interaction complaints management, compensation claims, access to properties etc.;
- Water use (source, abstraction and disposal), access and all related information, crossings and mitigation;
- Emergency preparedness Spills, training, other environmental emergencies;
- Dust and noise management methodologies;
- Fauna interaction and risk management only if the risk was identified wildlife interaction especially on game farms; and
- Heritage and palaeontology management.

The ECOs shall monitor and ensure that the contractors perform in accordance with these method statements. Completed and agreed method statements between the holder of the EA and the contractor shall be captured in Appendix 1.

4.6 Environmental Incident Log (Diary)

The ECOs are required to maintain an up-to-date and current Environmental Incident Log (environmental diary). The Environmental Incident Log is a means to record all environmental incidents and/or all non-compliance notice would not be issued. An environmental incident is defined as:

- Any deviation from the listed impact management actions (listed in this EMPr) that may be addressed immediately by the ECOs. (For example a contractor's staff member littering or a drip tray that has not been emptied);
- Any environmental impact resulting from an action or activity by a contractor in contravention of the environmental stipulations and guidelines listed in the EMPr which as a single event would have a minor impact but which if cumulative and continuous would have a significant effect (for example no toilet paper available in the ablutions for an afternoon); and
- General environmental information such as road kills or injured wildlife.

The ECOs are to record all environmental incidents in the Environmental Incident Log. All incidents regardless of severity must be reported to the Developer. The Log is to be kept in the EMPr file and at a minimum the following will be recorded for each environmental incident:

- The date and time of the incident;
- Description of the incident;
- The name of the Contractor responsible;
- The incident must be listed as significant or minor;
- If the incident is listed as significant, a non-compliance notice must be issued, and recorded in the log;
- Remedial or corrective action taken to mitigate the incident; and
- Record of repeat minor offences by the same contractor or staff member.

The Environmental Incident Log will be captured in the EAR.

4.7 Non-compliance

A non-compliance notice will be issued to the responsible contractor by the ECOs via the DSS or Project Manager. The non-compliance notice will be issued in writing; a copy filed in the EMPr file and will at a minimum include the following:

- Time and date of the non-compliance;
- Name of the contractor responsible;
- Nature and description of the non-compliance;
- Recommended / required corrective action; and
- Date by which the corrective action to be completed.
- The contractors shall act immediately when a notice of non-compliance is received and correct whatever is the cause for the issuing of the notice. Complaints received regarding activities on the development site pertaining to the environment shall be

recorded in a dedicated register and the response noted with the date and action taken. The ECO should be made aware of any complaints. Any non-compliance with the agreed procedures of the EMPr is a transgression of the various statutes and laws that define the manner by which the environment is managed. Failure to redress the cause shall be reported to the relevant CA for them to deal with the transgression, as it deems fit. The contractor is deemed not to have complied with the EMPr if, inter alia, There is a deviation from the environmental conditions, impact management outcomes and impact management actions activities, as approved in generic and site specific EMPr as relevant as set out in the EMPr, which deviation has, or may cause, an environmental impact.

4.8 Corrective action records

For each non-compliance notice issued, a documented corrective action must be recorded. On receiving a non-compliance notice from the DSS, the contractor's cEO will ensure that the corrective actions required take place within the stipulated timeframe. On completion of the corrective action the cEO is to issue a Corrective Action Report in writing to the ECOs. If satisfied that the corrective action has been completed, the ECOs are to sign-off on the Corrective Action Report, and attach the report to the non-compliance notice in the EMPr file. A corrective action is considered complete once the report has signed off by the ECOs.

4.9 Photographic record

A digital photographic record will be kept. The photographic record will be used to show before, during and post rehabilitation evidence of the project as well used in cases of damages claims if they arise. Each image must be dated and a brief description note attached.

The Contractor shall:

1. Allow the ECOs access to take photographs of all areas, activities and actions.

The ECOs shall keep an electronic database of photographic records which will include:

- 1. Pictures of all areas designated as work areas, camp areas, development sites and storage areas taken before these areas are set up;
- 2. All bunding and fencing;
- 3. Road conditions and road verges;
- 4. Condition of all farm fences;
- 5. Topsoil storage areas;
- 6. All areas to be cordoned off during construction;
- 7. Waste management sites;
- 8. Ablution facilities (inside and out);
- 9. Any non-conformances deemed to be "significant";
- 10. All completed corrective actions for non-compliances;
- 11. All required signage;
- 12. Photographic recordings of incidents;
- 13. All areas before, during and post rehabilitation; and
- 14. Include relevant photographs in the Final Environmental Audit Report.

4.10 Complaints register

The ECOs shall keep a current and up-to-date complaints register. The complaints register is to be a record of all complaints received from communities, stakeholders and individuals. The Complaints Record shall:

- 1. Record the name and contact details of the complainant;
- 2. Record the time and date of the complaint;
- 3. Contain a detailed description of the complaint;
- 4. Where relevant and appropriate, contain photographic evidence of the complaint or damage (ECOs to take relevant photographs); and
- 5. Contain a copy of the ECOs written response to each complaint received and keep a record of any further correspondence with the complainant. The ECO's written response will include a description of any corrective action to be taken and must be signed by the Contractor, ECO and affected party. Where a damage claim is issued by the complainant, the ECOs shall respond as described in (section 4.11) below.
- 4.11 Claims for damages

In the event that a Claim for Damages is submitted by a community, landowner or individual, the ECOs shall:

- 1. Record the full detail of the complaint as described in (section 4.10) above;
- 2. The DPM will evaluate the claim and associated damage and submit the evaluation to the Senior Site Representative for approval;
- 3. Following consideration by the DPM, the claim is to be resolved and settled immediately, or the reason for not accepting the claim communicated in writing to the claimant. Should the claimant not accept this, the ECO shall, in writing report the incident to the Developer's negotiator and legal department; and
- 4. A formal record of the response by the ECOs to the claimant as well as the rectification of the method of making payments not amount will be recorded in the EMPr file.
- 4.12 Interactions with affected parties

Open, transparent and good relations with affected landowners, communities and regional staff are an essential aspect to the successful management and mitigation of environmental impacts.

The ECOs shall:

- 1. Ensure that all queries, complaints and claims are dealt within an agreed timeframe;
- 2. Ensure that any or all agreements are documented, signed by all parties and a record of the agreement kept in the EMPr file;
- 3. Ensure that a complaints telephone numbers are made available to all landowners and affected parties; and
- 4. Ensure that contact with affected parties is courteous at all times;

4.13 Environmental audits

Internal environmental audits of the activity and implementation of the EMPr must be undertaken. The findings and outcomes included in the EMPr file and submitted to the CA at intervals as indicated in the EA.

The ECOs must prepare a monthly EAR. The report will be tabled as the key point on the agenda of the Environmental Site Meeting. The Report is submitted for acceptance at the meeting and the final report will be circulated to the Project Manager and filed in the EMPr file. At a frequency determined by the EA, the ECOs shall submit the monthly reports to the CA. At a minimum the monthly report is to cover the following:

- Weekly Environmental Checklists;
- Deviations and non-compliances with the checklists;
- Non-compliances issued;
- Completed and reported corrective actions;
- Environmental Monitoring;
- General environmental findings and actions; and
- Minutes of the Bi-monthly Environmental Site Meetings.

4.14 Final environmental audits

On final completion of the rehabilitation and/or requirements of the EA a final EAR is to be prepared and submitted to the CA. The EAR must comply with Appendix 7 of the EIA Regulations.

PART B: SECTION 1: Pre-approved generic EMPr template

5. IMPACT MANAGEMENT OUTCOMES AND IMPACT MANAGEMENT ACTIONS

This section provides a pre-approved generic EMPr template with aspects that are common to the development of substation infrastructure for the transmission and distribution of electricity. There is a list of aspects identified for the development or expansion of substation infrastructure for the transmission and distribution of electricity, and for each aspect a set of prescribed impact management outcomes and associated impact management actions have been identified. Holders of EAs are responsible to ensure the implementation of these outcomes and actions for all projects as a minimum requirement, in order to mitigate the impact of such aspects identified for the development or expansion of substation infrastructure for the transmission and distribution of electricity.

The template provided below is to be completed by providing the information under each heading for each environmental impact management action.

The completed template must be signed and dated on each page by both the contractor and the holder of the EA prior to commencement of the activity. The method statements prepared and agreed to by the holder of the EA must be appended to the template as Appendix 1. Each method statement must also be duly signed and dated on each page by the contactor and the holder of the EA. This template, once signed and dated, is legally binding. The holder of the EA will remain responsible for its implementation.

5.1 Environmental awareness training

Impact management outcome: All onsite staff are aware and understand the individual responsibilities in terms of this EMPr.

Impact Management Actions	Implementation			Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
 All staff must receive environmental awareness training prior to commencement of the activities; 	ECO / cEO / dEO	Hold environmental awareness training workshops	Pre-construction Construction	ECO dEO	Monthly and as and when required	Attendance register and training minutes / notes for the record	
 The Contractor must allow for sufficient sessions to train all personnel with no more than 20 personnel attending each course; 	Contractor	Scheduling of sufficient sessions through consultation with the ECO / cEO / dEO	Pre-construction Construction	ECO dEO	Monthly and as and when required	Attendance register and training minutes / notes for the record	
 Refresher environmental awareness training is available as and when required; 	cEO / dEO in consultation with the ECO	Hold refresher environmental awareness training workshops	During the construction phase	ECO dEO	Monthly and as and when required	Attendance register and training minutes / notes for the record	
 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; 	cEO / dEO	Hold training workshops and ensure that the EA and EMPr is readily available	During the construction phase	ECO dEO	Monthly and as and when required	Attendance register and training minutes / notes for the record	
 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 	Contractor	Develop and place appropriate	Pre-construction Construction	ECO dEO cEO	Monthly	Photographic record	

b) No littering.		posters at key locations				
 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. 	cEO / dEO in consultation with the ECO	Develop environmental awareness training material which covers the minimum requirements	Pre-construction Construction	ECO dEO	Prior to the commencemen t of the environmental awareness training	Environmental awareness training material requirements checklist
 A record of all environmental awareness training courses undertaken as part of the EMPr must be available; 	ECO / cEO / dEO	Filing system including all proof of training (i.e. attendance register and training minutes / notes for the record)	During the construction phase	ECO dEO	Monthly	Completed and up to date filing system with proof of training
 Educate workers on the dangers of open and/or unattended fires; 	cEO / dEO in consultation with the ECO	Develop environmental awareness training material which covers the dangers of open	Pre-construction Construction	ECO dEO	Prior to the commencemen t of the environmental awareness training	Environmental awareness training material requirements checklist

		and/or unattended fire				
 A staff attendance register of all staff to have received environmental awareness training must be available. 	ECO / cEO / dEO	Filing system including all proof of training (i.e. attendance register)	During the construction phase	ECO dEO	Monthly	Completed and up to date filing system inclusive of all attendance registers
 Course material must be available and presented in appropriate languages that all staff can understand. 	ECO / cEO / dEO	Develop environmental awareness training material in the required languages. Training material must by readily available to all staff	During the construction phase	ECO dEO	Monthly	Environmental awareness training material requirements checklist and the training register which must indicate the language of the training

5.2 Site Establishment development

Impact management outcome: Impacts on the environment are minimized during site establishment and the development footprint are kept to demarcated development area.

Impact Management Actions	Implementation			Implementation Monitoring				
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of		
	person	implementation	implementation	person		compliance		
- A method statement must be provided by the	Contractor	Development of	Pre-construction	ECO	Once, prior to	Availability of		
contractor prior to any onsite activity that includes the		an appropriate		dEO	construction	the method		
layout of the construction camp in the form of a plan		method				statement which		
showing the location of key infrastructure and services		statement				complies with		
(where applicable), including but not limited to offices,						the minimum		
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;						requirements listed
 Location of construction 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; 	DPM	Place construction camps outside of sensitive areas identified in the Basic Assessment Report	Pre-construction Construction	ECO dEO	Once, prior to construction	Availability of a layout and sensitivity map indicating avoidance of sensitive areas
 Sites must be located where possible on previously disturbed areas; 	DPM	Place site outside of sensitive areas and within previously disturbed areas identified in the BA Report	Pre-construction	ECO dEO	Once, prior to construction	Availability of a layout and sensitivity map indicating avoidance of sensitive areas and placement within disturbed areas
- The camp must be fenced in accordance with Section 5.5: Fencing and gate installation; and	DPM	Design and implementation of fencing as per the requirements of Section 5.5 of this EMPr	Pre-construction & Construction	ECO dEO	Once, prior to construction and once during the construction of the fencing	The camp is fenced in accordance with Section 5.5 of this EMPr
 The use of existing accommodation for contractor staff, where possible, is encouraged. 	Not applicable – t towns of Bedford (he development of and Cookhouse	new accommoda	ition is not proposed	d. Staff will be acco	ommodated in the

5.3 Access restricted areas

Impact management outcome: Access to restricted	areas prevented.					
Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 Identification of access restricted areas is to be informed by the environmental assessment, site walk through and any additional areas identified during development; 		areas identified wit	hin the developme	nt footprint		
 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 						
 Unauthorised access and development related activity inside access restricted areas is prohibited. 	Contractor / dEO / cEO	Erect appropriate temporary barriers around access restricted areas and provide clear signage of restricted status	During the construction phase	ECO	Monthly, and as and when required	Photographic evidence and/or notes of compliance that no unauthorisec access of activities has taken place within the access restricted areas

5.4 Access roads

Impact management outcome: Minimise impact to the environment through the planned and restricted movement of vehicles on site.

Impact Management Actions	Implementation	Implementation			Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of		
	person	implementation	implementation	person		compliance		
 An access agreement must be formalized and signed by the DPM, Contractor and landowner before commencing with the activities; 	DPM Contractor	Develop access agreements with the affected landowners. Ensure that agreements are approved and signed	Pre-construction	dEO ECO	Once, prior to construction	Availability of approved and signed agreement/s		
 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 	Contractor	Undertake maintenance activities on private roads used for construction as degradation takes place	During the construction phase	ceo / eco	Weekly	Photographic record of the pre-construction condition and degradation of roads, and records of the implementation and effectiveness of maintenance activities		
 All contractors must be made aware of all these access routes. 	dEO / cEO	Develop a map illustrating all access routes associated with the project and present and provide the map to all contractors	Pre-construction Construction	ECO	Once, prior to construction	Access routes map readily available		
 Any access route deviation from that in the written agreement must be closed and re-vegetated immediately, at the contractor's expense; 	Contractor	All access routes developed that are not in-line	Construction and Rehabilitation	ECO	Bi-weekly (every two weeks)	Photographic record of the closure of		

 Maximum use of both existing servitudes and existing 	Contractor (and	with the access route agreements must be closed and re- habilitated to the pre- disturbance state Existing access	Construction	cEO	Weekly	access roads and re- vegetation
roads must be made to minimise further disturbance through the development of new roads;	Eskom maintenance staff where relevant to operation)	routes to be used must be specified and the development of new roads must be avoided as far as possible	and operation	Operation and maintenance team		of the approved layout
 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; 	dEO / cEO	Record the conditions of private roads to be used (prior to use) as per the requirements of section 4.9 and agree on the required condition of the roads with the landowner, DPM and contractor	construction phase		Prior to the use of private roads	Photographic record and proof of the road conditions agreed upon with the relevant parties
 Access roads in flattish areas must follow fence lines and tree belts to avoid fragmentation of vegetated areas or croplands 	DPM and Contractor	Design access roads to follow fence lines and avoid	Pre-construction	ECO	Once during the design and once prior to construction	Implementation of the approved layout

		vegetated				
		areas				
- Access roads must only be developed on pre-planned	Contractor	Construction of	During the	ECO	Once during the	Implementation
and approved roads.		access roads	construction	dEO	design and	of the approved
		only on pre-	phase		weekly during	layout
		planned and			the construction	
		approved			of access roads	
		access roads				

5.5 Fencing and Gate installation

Impact management outcome: Minimise impact to the environment and ensure safe and controlled access to the site through the erection of fencing and gates where required.

Impact Management Actions	Implementation			Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
 Use existing gates provided to gain access to all parts of the area authorised for development, where possible; 	Contractor	Identify and inform all relevant staff of the existing gates to be used	Pre-construction & Construction	dEO	Monthly	Existing gates are utilised on a frequent basis and only limited new access gates are developed	
 Existing and new gates to be recorded and documented in accordance with section 4.9: photographic record; 	ECO	Existing and new gates will be recorded and documented as per the requirements of section 4.9	During the construction phase	ECO	Once, when the construction of all new gates have been completed	Photographic record of the existing and new gates as per the requirements of section4.9	

 All gates must be fitted with locks and be kept locked at all times during the development phase, unless otherwise agreed with the landowner; 	Contractor	Ensure all relevant gates are fitted with locks and are always locked	Construction and Operation During the	ECO Operation and maintenance team ECO	Bi-weekly (every second week) Once, prior to	All gates are locked and no complaints from landowners are received in this regard
 At points where the line crosses an existing 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; 		where required with the approval of the affected landowner	construction phase		construction and during the construction phase, as and when required	New gates are installed where required
 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; 	Contractor	Install gates in a manner so that there is a gap of no more than 100mm between the bottom of the gate and the ground	During the construction phase	CEO	Once, during the erection of the gates during the construction phase	New gates installed as per the requirement
 Where gates are installed in jackal proof fencing, a suitable reinforced concrete sill must be provided beneath the gate; 	Contractor	Implement a reinforced concrete sill beneath gates installed for jackal proofing	During the construction phase	CEO	Once, during the erection of the gates during the construction phase	New gates installed as per the requirement
 Original tension must be maintained in the fence wires; 	Contractor	Maintain original tension of fences through required activities	During the construction phase	ECO	Monthly	No tension reduction on fence wires
 All gates installed in electrified fencing must be re- electrified; 	Contractor	Electrify gates installed in electrified fencing	During the construction phase	ECO	Once, during the erection of the gates during	Gates installed in electrified fencing is electrified

					the construction phase	
 All demarcation fencing and barriers must be maintained in good working order for the duration of the development activities; 	Contractor	Undertake maintenance activities on fences and barriers	During the construction phase	ECO	Monthly	Photographic record of maintained fences and barriers
 Fencing must be erected around the camp, batching plants, hazardous storage areas, and all designated access restricted areas, where applicable; 	Contractor	Fence construction camps, batching plants, hazardous storage areas and access restricted areas	During the construction phase	ECO	Once during the erection of fencing	Photographic record of fences erected
 Any temporary fencing to restrict the movement of life- stock must only be erected with the permission of the land owner. 	dEO/ cEO Contractor	Obtain written approval from the relevant landowner where temporary fencing is required to restrict life-stock movement	During the construction phase	ECO	To be monitored as temporary fencing is required	Written approval to be provided by the dEO
 All fencing must be developed of high quality material bearing the SABS mark; 	Contractor	Make use of high quality materials approved by SABS	During the construction phase	CEO	To be monitored as fencing is erected during the construction phase	Use of high quality materials for fencing approved by SABS
 The use of razor wire as fencing must be avoided as far as possible; 	Contractor	Razor wire must not be sourced or used for the erection of fencing	During the construction phase	ECO	To be monitored as fencing is erected during the construction phase	Fences erected do not make use of razor wire

- Fenced areas with gate access must remain locked	DSS and	Ensure fenced	During the	cEO	Weekly and as	Fences are
C C			U	CLO	,	
after hours, during weekends and on holidays if staff is	Contractor	areas are locked	construction			
away from site. Site security will be required at all times;		as required	phase		required	complaints from
		through the				landowners are
		implementation				received. A
		of a formalised				security
		process.				company is
		Appoint a				appointed
		security				
		company				
- On completion of the development phase all	Contractor	Removal of all	At the end of the	ECO	Once, following	No temporary
temporary fences are to be removed;		temporary	Construction	dEO	the completion	fences
		fences	Phase		of the	associated with
					construction	the project is
					phase	present
						following the
						completion of
						the construction
						phase
- The contractor must ensure that all fence uprights are	Contractor	Appropriate	At the end of the	ECO	Once, following	No fence
appropriately removed, ensuring that no uprights are		removal of all	Construction	dEO	the completion	uprights
cut at ground level but rather removed completely.		fence uprights	Phase	0.20	of the	associated with
		i i i i i i i i i i i i i i i i i i i			construction	the project is
					phase	present
						following the
						completion of
						the construction
						phase

5.6 Water Supply Management

Impact management outcome: Undertake responsible water usage.

Impact Management Actions	Implementation			Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
 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; 	Not applicable - water sources.	water for the proje	ct will be sourced	from local municipo	al abstraction poin	ts or other existing	
 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. 	Not applicable - water sources.	water for the proje	ct will be sourced f	rom local municipo	al abstraction point	s, or other existing	
 Ensure water conservation is being practiced by: Minimising water use during cleaning of equipment; Undertaking regular audits of water systems; and Including a discussion on water usage and conservation during environmental awareness training. The use of grey water is encouraged. 	Contractor / dEO / cEO in consultation with the ECO	Implement the required water conservation measures throughout on- site construction processes	During the construction phase	ECO	Monthly, and as and when required	Successful implementation of water conservation	

5.7 Storm and wastewater management

Impact management outcome: Impacts to the environment caused by storm water and wastewater discharges during construction are avoided.

Impact Management Actions	Implementation			Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
 Runoff from the cement/ concrete batching areas must be strictly controlled, and contaminated water must be collected, stored and either treated or disposed of off-site, at a location approved by the project manager; 	Contractor	Implement measures for the control and management of runoff	During the construction phase	ECO	Weekly	No mismanagemen t of runoff or contaminated water due to the temporary concrete batching plant	
 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; 	Contractor and cEO	Obtain approved absorbent material and make use of licensed waste disposal facilities for disposal of oil	During the Construction Phase	ECO	Monthly	Availability of approved absorbent material at the construction site and proof of disposal of oil at licenses disposal facilities	
 Natural stormwater 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; 	DPM in consultation with the ECO	Consultation between the DPM and the ECO to determine if water can be discharged directly into water bodies (where present). The necessary water quality testing must be	During the construction phase	ECO	As and when the need arises to discharge natural stormwater runoff and clean water	Proof of consultation between the DPM and ECO and the outcomes thereof to be provided. Proof of water quality testing and the results thereof.	

			undertaken prior to discharge					
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.	DPM consultation with the ECO	in	Consultation between the DPM and the ECO to determine if water can be discharged directly into water bodies (where present). The necessary water quality testing must be undertaken prior	During t construction phase	he	ECO	As and when the need arises to discharge water	Proof of consultation between the DPM and ECO and the outcomes thereof to be provided. Proof of water quality testing and the results thereof.
			to discharge					

5.8 Solid and hazardous waste management

Impact management outcome: Wastes are appropriately stored, handled and safely disposed of at a recognised waste facility.

Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- All measures regarding waste management must be	Contractor	Develop and	During the	ECO	Monthly	Implementation
undertaken using an integrated waste management		implement a	construction			of the waste
approach;		waste	phase			management
		management				plan and proof
		plan				of waste
						management
						through proof of

						responsible disposal
 Sufficient, covered waste collection bins (scavenger and weatherproof) must be provided; 	Contractor	Provision of appropriate waste collection bins which are strategically placed throughout the site	During the construction phase	ECO	Weekly	Appropriate waste collection bins are available throughout the site
 A suitably positioned and clearly demarcated waste collection site must be identified and provided; 	DPM and Contractor	Identify an appropriate Iocation for the waste collection site which must be clearly demarcated through signage and temporary fencing	Design and Construction Phase	ECO	Once, prior to the commencemen t of construction	A waste collection site is appropriately placed and demarcated
 The waste collection site must be maintained in a clean and orderly manner; 	Contractor	Regular collection of waste and maintenance of the area must be undertaken as per the waste requirements for the project during construction	During the Construction Phase	ECO	Weekly	The waste collection site is maintained and clean
 Waste must be segregated into separate bins and clearly marked for each waste type for recycling and safe disposal; 	Contractor	Provide separate and marked bins for the different	During the Construction Phase	cEO	Weekly	Separate waste bins are available on site and waste

 Staff must be trained in waste segregation; 	cEO / dEO in consultation with the ECO	waste types associated with the construction phase Include waste segregation as part of the environmental awareness training material.	Construction	ECO	Monthly, and as and when required	generated is separated into the relevant bins Environmental awareness training material requirements checklist
 Bins must be emptied regularly; 	Contractor	Bins must be emptied before reaching total capacity and on a regular basis as required for the project	During the construction phase	ECO	Monthly	No mismanagemen t of bins.
 General waste produced onsite must be disposed of at registered waste disposal sites/ recycling company; 	Contractor	Disposal of general waste at licensed waste disposal facilities must be undertaken as per the waste management plan	0	ECO	Monthly	Disposal certificates of disposal at licensed facilities to be provided
 Hazardous waste must be disposed of at a registered waste disposal site; 	Contractor	·	During the construction phase	ECO	Monthly	Disposal certificates of disposal at licensed facilities to be provided

		management plan			
 Certificates of safe disposal for general, hazardous and recycled waste must be maintained. 	Contractor	Obtain certificates for safe disposal of waste	ECO	Monthly	Disposal certificates of disposal at licensed facilities to be provided and filed as part of the filing system

5.9 Protection of watercourses and estuaries

Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 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; 		Contractor to undertake activities which can cause spills of pollutants outside of watercourses	During the construction phase	ECO	Weekly	No incidents reported of spillage of pollutants into watercourses
 In the event of a spill, prompt action must be taken to clear the polluted or affected areas; 	Contractor and cEO	Develop a management plan or process for implementation should a spill take place	During the construction phase	ECO	Weekly	Feedback must be provided by the contractor in terms of how the spill was handled and photographic

_	Where possible, no development equipment must traverse any seasonal or permanent wetland	Not applicable - n	o wetlands are loc	ated near the site fo	or the placement of	f the Collector subs	evidence of the feedback must be provided and kept on record tation.			
-	No return flow into the estuaries must be allowed and no disturbance of the Estuarine functional Zone should occur;		Not applicable – no estuaries are located within the study area. Not applicable – no watercourses will be crossed because of the development of the Collector substation.							
_	Development of permanent watercourse or estuary crossing must only be undertaken where no alternative access to tower position is available;									
-	There must not be any impact on the long-term morphological dynamics of watercourses or estuaries;		Not applicable – the development of the Collector Substation will not have any long-term morphological impacts on watercourses as there are no watercourses present at or near the proposed Collector substation.							
-	Existing crossing points must be favored over the creation of new crossings (including temporary access)	Not applicable – no new road crossings will be required for the development of Collector 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 	Contractor	Activities undertaken near watercourses must be in-line with and consider the specified environmental controls	During the construction phase	ECO	Monthly, and as and when required	•			

implemented timeously. In this regard, the banks should			
be appropriately and incrementally stabilised as soon			
as development allows.			

5.10 Vegetation clearing

Impact management outcome: Vegetation clearing is restricted to the authorised development footprint of the proposed infrastructure.											
Impact Management Actions	Implementation			Monitoring							
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance					
General:											
 Indigenous vegetation which does not interfere with the development must be left undisturbed; 	cEO and contractor	Demarcate areas of indigenous vegetation to be avoided before clearance is undertaken	Construction and operation (i.e. for maintenance purposes)	ECO Operation and maintenance team	Weekly, and as and when required	No unnecessary clearance or indigenous vegetation is undertaken					
 Protected or endangered species may occur on or near the development site. Special care should be taken not to damage such species; 	Contractor	Demarcate areas containing protected or endangered species to be avoided by construction activities	During the Construction Phase	ECO	Weekly, and as and when required	No clearance of protected of endangered species other than those permitted to be removed					
 Search, rescue and replanting of all protected and endangered species likely to be damaged during project development must be identified by the 	Relevant specialist in consultation	Develop and implement a Plant Search and Rescue Plan	Pre-construction & Construction	ECO	Weekly, and as and when required	Implementation of the Plan Search and Rescue Plan and					

relevant specialist and compl development or clearing;	leted prior to any	with Contractor	the					photographic evidence and notes of the implementation of the plan
 Permits for removal must be obtain CA prior to the cutting or clear species, and they must be filed; 		DPM		Undertake the permitting process in order to obtain the relevant permits for the removal of protected species. Permits must be kept on file	Pre-construction	ECO	Once, prior to the commencemen t of the construction phase and removal of the protected species	Permits on file
 The Environmental Audit Report identified species have been res and that the location of replant conditions of approvals; 	cued and replanted	ECO		Ensure that the audit report indicates all species rescued and replanted and provides feedback in terms of compliance with the conditions of permits for replanting		ECO	Monthly	Rescue and replanted species reported in Audit Report
 Trees felled due to construction n and form part of the Environment 		ECO		Ensure that the audit report documents the details of trees felled	During the Construction Phase and following the completion of the Construction Phase	ECO	Monthly	Felled Trees reported in Audit Report

- Rivers and watercourses must be kept clear of felled	Contractor	Felled trees,	During the	ECO	Monthly	No felled trees,
trees, vegetation cuttings and debris;		vegetation	Construction			vegetation
		cuttings and	Phase			cuttings and
		debris must be				debris are
		disposed of at a				dumped in
		licensed waste				inappropriate
		disposal facility				locations and
						disposal
						certificates are
						available as
						proof of
						responsible
						disposal
- Only a registered pest control operator may apply	DPM qnd	A suitably	Construction	ECO	As and when the	Only registered
herbicides on a commercial basis and commercial	Contractor	qualified pest	and Operation		use of herbicides	pest control
application must be carried out under the supervision		control operator			is required	operators must
of a registered pest control operator, supervision of a		must be				be appointed
registered pest control operator or is appropriately		appointed				and proof of
trained;						their registration
						must be
						provided
- A daily register must be kept of all relevant details of	Contractor	Develop a daily	During the	ECO	Monthly	Daily register
herbicide usage;		register for the	construction			provided by the
		documentation	phase			pest control
		of the details of				operator
		herbicide usage				
 No herbicides must be used in estuaries 	Not applicable -	no estuaries are pre	sent within the stud	y area		
- All protected species and sensitive vegetation not	Contractor in	Spatially	During the	ECO	Once, during	Demarcation
removed must be clearly marked and such areas	consultation	demarcate	construction		the undertaking	and fencing is
fenced off in accordance to Section 5.3: Access	with the cEO	protected	phase		of the	undertaken in-
restricted areas.		species and			demarcation of	line with the
		sensitive			the areas and	requirements of
		vegetation and			the erection of	section 5.3
		implement			the fencing	
		appropriate				

		fencing where required as per section 5.3				
 Alien invasive vegetation must be removed and disposed of at a licensed waste management facility. 	Contractor	Remove all alien invasive vegetation and dispose of the removed vegetation at a licensed waste management facility	During the construction phase	ECO	Monthly, and as and when required	Disposal certificates of disposal at licensed facilities to be provided and filed as part of the filing system

5.11 Protection of fauna

Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 No interference with livestock must occur without the landowner's written consent and with the landowner or a person representing the landowner being present; 	dEO / cEO Contractor	Develop a procedure for dealing with livestock within the affected properties	Pre-construction and during the construction phase	ECO	Once, prior to the commencemen t of construction and as and when required during the construction phase	Written consent provided by the landowner and proof of representation of the landowner during interference
 The breeding sites of raptors and other wild birds species must be taken into consideration during the planning of the development programme; 	dEO / cEO in consultation	Ensure that the planning and development	Pre-construction & Construction	ECO	Once, prior to the commencemen	The planning and development

 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; 	with the Contractor dEO / cEO in consultation with the Contractor	considers breeding sites for wild bird species Avoid breeding sites and ensure that special care is taken in the presence of nestlings and	During the Construction Phase Operation Phase	ECO Operation and maintenance team	t of construction and as and when required Weekly, and as and when required during the construction. Monthly, and as and when	programme which includes the consideration of breeding sites for wild bird species Photographic record of intact breeding sites
 Special recommendations of the avian specialist must be adhered to at all times to prevent unnecessary disturbance of birds; 	dEO / cEO in consultation with the Contractor	fledgelings All mitigation measures recommended by the avifauna specialist must be implemented	During the Construction Phase Operation Phase	ECO Operation and maintenance team	required during operation Weekly during construction and monthly during operation	Photographic record of compliance and successful implementation of the recommended measures
 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; 	dEO / cEO in consultation with the Contractor	All site staff must be informed of this requirement during the Environmental Awareness Training and the consequences of not adhering to the requirement. These areas must be	During the Construction Phase	ECO	Monthly, and as and when required	No instances of poaching is reported

		demarcated as Access Restricted Areas				
 No deliberate or intentional killing of fauna is allowed; 	dEO / cEO in consultation with the Contractor	All site staff must be informed of this requirement during the Environmental Awareness Training and the consequences of not adhering to the requirement. These areas must be demarcated as Access Restricted Areas	During the Construction Phase	ECO	Monthly, and as and when required	No instances of deliberate or intentional killing is reported
 In areas where snakes are abundant, snake deterrents are to be deployed on the pylons to prevent snakes climbing up, being electrocuted and causing power outages; and 	dEO / cEO in consultation with the Contractor	Implement and maintain snake deterrents in areas where snakes are abundant	During the Construction Phase Operation Phase	ECO Operation and maintenance team	Once, during the construction and as and when required. Monthly during operation	Photographic record of the implementation and maintenance of snake deterrents
 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. 	DPM in consultation with the dEO	Undertake a permitting process to obtain the required permits	Pre-construction	ECO	Once, prior to the commencemen t of construction and as and when required	Permits for removal and/relocation must be kept on file and be readily available

5.12 Protection of heritage resources

Impact Management Actions	Implementation			Monitoring			
Impact Management Actions	Implementation			Mormoning			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of	
	person	implementation	implementation	person		compliance	
- Identify, demarcate and prevent impact to all known	DPM and a	Undertake a	Pre-construction	ECO	Once, prior to	Proof of	
sensitive heritage features on site in accordance with	suitably qualified	Heritage Walk-			the	avoidance of	
the No-Go procedure in Section 5.3: Access restricted	specialist	through Survey			commencemen	sensitive	
areas;					t of construction	heritage	
	dEO / cEO in	Spatially identify				features through	
	consultation	and demarcate				details of	
	with the	areas of				avoidance and	
	Contractor and	heritage				photographic	
	ECO	significance as				records	
		per the Heritage					
		Walk-through					
		Report and as					
		per the					
		requirements of					
		section 5.3					
- Carry out general monitoring of excavations for	Suitably	Appoint a	During the	ECO	During the	Proof of	
potential fossils, artefacts and material of heritage	qualified	suitably qualified	Construction		undertaking of	appointment of	
importance;	specialist in	specialist to	Phase		excavations of	a suitably	
	consultation	carry out the			fossils, artefacts	qualified	
	with the ECO	monitoring of			and heritage	specialist and	
		excavations for			material	photographic	
		fossils, artefacts				record of	
		and important				required	
		heritage				monitoring by	
		material				the specialist	

- All work must cease immediately, if any human remains	dEO / cEO in	Develop and	During the	ECO	Weekly, during	Proof of work
and/or other archaeological, palaeontological and	consultation	implement	Construction		the construction	ceased and the
historical material are uncovered. Such material, if	with the	procedures for	Phase		phase and as	required
exposed, must be reported to the nearest museum,	Contractor and	situations where			and when	procedures
archaeologist/ palaeontologist (or the South African	ECO	human remains,			required	followed in
Police Services), so that a systematic and professional		archaeological,				cases where
investigation can be undertaken. Sufficient time must		palaeontologic				material is
be allowed to remove/collect such material before		al or historical				discovered.
development recommences.		material are				
		uncovered				

5.13 Safety of the public

Impact management outcome: All precautions are taken to minimise the risk of injury, harm or complaints.

Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
- Identify fire hazards, demarcate and restrict public	cEO in	Develop an	Pre-construction	ECO	Once, prior to	Compliance
access to these areas as well as notify the local	consultation	Emergency	Construction		the	with the
authority of any potential threats e.g. large brush	with the	Preparedness,			commencemen	Emergency
stockpiles, fuels etc.;	Contractor	Response and			t of construction	Preparedness,
		Fire			and weekly	Response and
		Management			during the	Fire
		Plan specific to			construction	Management
		the project			phase	Plan
- All unattended open excavations must be adequately	Contractor	Ensure that all	During the	ECO	Weekly	Excavations are
fenced or demarcated;		excavations	Construction			fenced where
		undertaken is	Phase			required and
		fenced and				photographic
		demarcated				proof can be
		within a				provided

		reasonable				[]
		timeframe and				
		in instances				
		where				
		excavations will				
		be open for				
		long-periods of				
		time				
- Adequate protective measures must be implemented	Contractor	All staff must be	During the	ECO	Monthly, and as	No incidents of
to prevent unauthorised access to and climbing of		easily	construction		and when	unauthorised
partly constructed infrastructure and protective		identifiable and	phase		required	climbing is
scaffolding;		the climbing of				reported
		infrastructure				
		and scaffolding				
		must be				
		undertaken by				
		authorised				
		personnel as				
		managed by				
		the Contractor				
- Ensure structures vulnerable to high winds are secured;	Contractor	Ensure that	During the	ECO	Weekly, and as	No incidents of
		sufficient	construction		and when	unstable
		stabilisation	phase		required	structures due to
		measures are				high winds is
		implemented to				reported
		secure structures				
		vulnerable to				
		high winds				
 Maintain an incidents and complaints register in which 	cEO	Compile and	During the	ECO	Monthly, and as	The incidents
all incidents or complaints involving the public are		regularly update	construction		and when	and complaints
logged.		as incidents and	phase		required	register is
1099ed.		complaints are	Pridse			complete and
		submitted from				provides all the
		the public and				required details
		indicate the				

actions taken to		
resolve the		
complaint		

5.14 Sanitation

Impact management outcome: Clean and well maintained toilet facilities are available to all staff in an effort to minimise the risk of disease and impact to the environment.

Impact Management Actions	Implementatio	n			Monitoring		
	Responsible		Method of	Timeframe for	Responsible	Frequency	Evidence of
	person		implementation	implementation	person		compliance
- Mobile chemical toilets are installed onsite if no other	Contractor		Mobile chemical	During the	ECO	Weekly	Mobile toilets
ablution facilities are available;			toilets must be	Construction			are installed and
			placed	Phase			avoid
			appropriately				environmental
			and in areas				sensitivities
			which avoid				
			environmental				
			sensitivities				
- The use of ablution facilities and or mobile toilets must	Contractor	in	All site staff must	Pre-construction	ECO	Monthly, and as	No evidence of
be used at all times and no indiscriminate use of the	consultation		be informed of	& Construction		and when	non-compliance
veld for the purposes of ablutions must be permitted	with the cEO		this requirement			required	identified
under any circumstances;			during the				
			Environmental				
			Awareness				
			Training and the				
			consequences				
			of not adhering				
			to the				
			requirement.				

 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 to ensure compliance to health standards: 	Contractor consultation with the cEO	n The installation of the toilets by the Contractor must be as per the listed requirements	During the Construction Phase	ECO	Weekly	No evidence of non-compliance identified
 A copy of the waste disposal certificates must be maintained. 	Contractor	Certificates obtained from the licensed waste disposal facility with the emptying of the toilets must be kept on file	During the Construction Phase	ECO	Monthly, and as and when required	Certificates for waste disposal from the licensed waste disposal facility

5.15 Prevention of disease

Impact Management outcome: All necessary precautions linked to the spread of disease are taken.						
Impact Management Actions Implementation Monitoring						

	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
 Undertake environmentally-friendly pest control in the camp area; 	Contractor	Only environmentally- friendly pest control must be used, when required	During the Construction Phase	ECO	As and when pest control is required for the project	Contractor to provide proof of pest control used being environmentally- friendly
 Ensure that the workforce is sensitised to the effects of sexually transmitted diseases, especially HIV/ AIDS; 	CEO / Contractor in consultation with the ECO	The effects of sexually transmitted diseases and HIV/ AIDS must be covered in the Environmental Awareness Training	Pre-construction & Construction	ECO	Once, prior to the commencemen t of construction and monthly during construction	Environmental awareness training material requirements checklist
 The Contractor must ensure that information posters on HIV/ AIDS are displayed in the Contractor Camp area; 	Contractor	Develop and place information posters on HIV/ AIDS	During the Construction Phase	ECO	Weekly	Photographic evidence of poster placement
 Information and education relating to sexually transmitted diseases to be made available to both construction workers and local community, where applicable; 	CEO / Contractor in consultation with the ECO	Information and education of sexually transmitted diseases must be covered in the Environmental Awareness Training.	Pre-construction & Construction	ECO	Monthly	Environmental awareness training material requirements checklist
 Free condoms must be made available to all staff on site at central points; 	Contractor	Placement of free condoms in mobile toilets	During the Construction Phase	ECO	Monthly	Proof of placement of free condoms

		and at the				by the
		construction				contractor to be
		camps				provided
 Medical support must be made available; 	dEO / cEO in	Ensure that	Construction	ECO	Monthly	Check the
	consultation	designated	and Operations			availability of first
	with the	personnel with				aid trained
	Contractor	first aid training				personnel and
		are available on				medical kits
		site and that first				(including if
		aid kits to				these are
		provide medical				complete in
		support is readily				terms of
		available				supplies)
– Provide access to Voluntary HIV Testing and	Contractor	Compile a HIV	During the	ECO	Quarterly, and	Voluntary testing
Counselling Services.		testing schedule	Construction		as and when	schedules and
		and provide	Phase		required	proof of
		counselling				counselling
		services where				(where
		required				undertaken)

5.16 Emergency procedures

Impact management outcome: Emergency procedures are in place to enable a rapid and effective response to all types of environmental emergencies.								
Impact Management Actions	Implementation			Monitoring				
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance		
 Compile an Emergency Response Action Plan (ERAP) prior to the commencement of the proposed project; 	Contractor	Develop an Emergency Preparedness, Response and	Pre-construction	ECO	Once, prior to the commencemen t of construction	Emergency Preparedness, Response and Fire		

		Fire				Management
		Management				Plan compiled
		Plan specific to				
		the project				
– The Emergency Plan must deal with accidents,	Contractor	Develop an	Pre-construction	ECO	Once, prior to	Emergency
potential spillages and fires in line with relevant		Emergency			the	Preparedness,
legislation;		Preparedness,			commencemen	Response and
		Response and			t of construction	Fire
		Fire				Management
		Management				Plan includes
		Plan specific to				required
		the project				specifications
		which covers				
		accidents,				
		potential				
		spillages and				
		fires				
- All staff must be made aware of emergency	cEO / dEO in	Develop	Pre-construction	ECO	Prior to the	Environmental
procedures as part of environmental awareness	consultation	environmental			commencemen	awareness
training;	with the ECO	awareness			t of the	training material
		training material			environmental	requirements
		which covers the			awareness	checklist
		relevant			training	
		emergency				
		procedures				
- The relevant local authority must be made aware of a	Contractor in		Construction	ECO	As and when a	The local
fire as soon as it starts;	consultation	include a			fire occurs	authority was
	with the ECO	procedure in the				informed as per
		Emergency				the relevant
		Preparedness,				procedure set
		Response and				out in the
		Fire				Emergency
		Management				Preparedness,
		Plan for the				Response and
		event of a fire				Fire

		and the				Management
		procedure to be				Plan
		followed for				
		informing the				
		local authority				
- In the event of emergency necessary mitigation	Contractor	Implement the	Construction	ECO	As and when a	The mitigation
measures to contain the spill or leak must be		required	and Operations		spill or leak	measures
implemented (see Hazardous Substances section 5.17).		mitigation			occurs	included under
		measures in the				Section 5.17
		event of a spill or				have been
		leak as per the				adhered to
		requirements of				
		Section 5.17.				

5.17 Hazardous substances

Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence compliance
 The use and storage of hazardous substances to be minimised and non-hazardous and non-toxic alternatives substituted where possible; 	cEO in consultation with the Contractor	Develop a strategy of how hazardous substances can be and should be minimised	Pre-construction & Construction	ECO	Once, prior to the commencemen t of construction and monthly during the construction phase	Contractor f provide evidence o substances use for proof o compliance
 All hazardous substances must be stored in suitable containers as defined in the Method Statement; 	Contractor	Develop a Method Statement for	Pre-construction & Construction	ECO	Once, prior to the commencemen	Photographic proof the hazardous

		the storage of hazardous substances in suitable containers			t of construction and monthly during the construction phase	substances are stored in suitable containers as per the requirements of the relevant Method Statements
 Containers must be clearly marked to indicate contents, quantities and safety requirements; 	Contractor	Where hazardous waste is stored these must be clearly marked indicating the required details of the contents	During the Construction Phase	ECO	Monthly	Photographic proof that containers are marked as per the requirements
 All storage areas must be bunded. The bunded area must be of sufficient capacity to contain a spill / leak from the stored containers; 	Contractor	Ensure that storage areas are sufficiently bunded which are of sufficient capacity to contain a spill / leak from the stored containers	During the Construction Phase	ECO	Monthly during the Construction Phase	Photographic proof that storage areas are bunded and proof that the bund areas are of sufficient capacity to contain a spill / leak from the stored containers
 Bunded areas to be suitably lined with a SABS approved liner; 	Contractor	Ensure that bunded storage areas are suitably lined	During the Construction Phase	ECO	Once, during the Construction Phase	Photographic proof that bunded storage areas are suitably lined

 An Alphabetical Hazardous Chemical Substance (HCS) control sheet must be drawn up and kept up to date on a continuous basis; 	cEO Contractor	/	Compile and update an Alphabetical Hazardous Chemical Substance (HCS) control sheet specific to the project	During the Construction Phase	ECO	Monthly, and as and when required	Complete and up to date control sheet provided by the Contractor
 All hazardous chemicals that will be used on site must have Material Safety Data Sheets (MSDS); 	cEO Contractor		Keep a record of all hazardous chemicals and the respective MSDS	Construction Phase	ECO	Monthly, and as and when required	Record of hazardous chemicals and the respective MSDS
 All employees working with HCS must be trained in the safe use of the substance and according to the safety data sheet; 	cEO Contractor	/	Provide training for personnel working with HCS	Pre-construction	ECO	Once, prior to the commencemen t of construction and as and when required	RecordoftrainingprovidedtopersonnelworkingHCS
 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; 	CONTRACTOR	/	Develop environmental awareness training material which covers the relevant impacts and safety measures. Provide appropriate training and personal protective	Pre-construction & Construction	ECO	Prior to the commencemen t of the environmental awareness training and monthly during the construction phase for personal protective equipment	Environmental awareness training material requirements checklist and all relevant personnel have undergone appropriate training and have access to personal protective equipment

 The Contractor must ensure that diesel and other liquid fuel, oil and hydraulic fluid is stored in appropriate storage tanks or in bowsers; 	Contractor	equipment for the relevant personnel handling hazardous substances and materials Appropriate storage facilities must be constructed or obtained for the storing of diesel, other liquid fuel, oil and hydraulic fluid	During the Construction Phase	ECO	Monthly, and as and when required	Storage tanks for the project are appropriate and no incidents are reported in this regard
 The tanks/ bowsers 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/ bowsers (110% statutory requirement plus an allowance for rainfall); 	Contractor	Appropriate storage facilities must be constructed or obtained for tanks as per the requirements listed	During the Construction Phase	ECO	Monthly, and as and when required	Storage areas for the tanks/ bowsers for the project are appropriate and no incidents are reported in this regard
 The floor of the bund must be sloped, draining to an oil separator; 	Contractor	Appropriate storage facilities must be constructed as per the requirements listed	During the Construction Phase	ECO	Once, during construction	Bunded storage areas are constructed according to the requirements
 Provision must be made for refuelling at the storage area by protecting the soil with an impermeable groundcover. Where dispensing equipment is used, a 	Contractor	Appropriately constructed refuelling facility must be	During the Construction Phase	ECO cEO	Monthly Weekly	Soils at the refuelling facility are protected as required and

drip tray must be used to ensure small spills are		developed as				drip trays are
contained;		per the				provided and
		requirements.				used
		Drip trays must				
		be provided for				
		USE				
- All empty externally dirty drums must be stored on a	Contractor	Ensure that	During the	ECO	Monthly	Drip trays or
drip tray or within a bunded area;		empty dirty	Construction	cEO	Weekly	bunded areas
		drums are stored	Phase			are used for the
		appropriately as				storage of dirty
		per the				drums
		requirements				
- No unauthorised access into the hazardous substances	Contractor	Ensure through	-	ECO	Monthly	Proof of the
storage areas must be permitted;		the	Construction			implementation
		implementation	Phase			of the relevant
		of procedures				procedure must
		that no				be provided by
		unauthorised				the contractor
		access is				
		undertaken into				
		the storage				
		areas				
 No smoking must be allowed within the vicinity of the 	Contractor	Inform all	Ŭ	ECO	Monthly	Photographic
hazardous storage areas;		employees of	Construction	cEO	Weekly	record of the
		the requirement	Phase			signage placed
		and develop				must be
		and place				provided
		relevant signage				
		in the relevant				
Adamunta fizationa aminanant must be served	Contractor	areas		500	A A o antible (A de questo fina
- Adequate fire-fighting equipment must be made	Contractor	Hazardous	During the	ECO	Monthly	Adequate fire-
available at all hazardous storage areas;		storage areas	Construction			fighting
		must be fitted	Phase			equipment is
		with adequate				available and

		fire-fighting equipment				has been serviced
 Where refuelling away from the dedicated refuelling station is required, a mobile refuelling unit must be used. Appropriate ground protection such as drip trays must be used; 	Contractor	Provide a mobile refuelling unit as well as suitable ground protection, where required	During the Construction Phase	ECO	Monthly, and as and when required	A mobile refuelling unit and suitable ground protection is available for use
 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; 	Contractor	Provide an appropriate spill kit for the project for the use of hazardous substances	During the Construction Phase	ECO	Monthly, and as and when required	Appropriate spill kits are available for use
 The responsible operator must have the required training to make use of the spill kit in emergency situations; 	cEO and Contractor	Provide training on the use of spill kits to the relevant employees	Pre-construction	ECO	Once, prior to the commencemen t of construction	Proof of training to be provided by the contractor
 An appropriate number of spill kits must be available and must be located in all areas where activities are being undertaken; 	cEO and Contractor	Provide an appropriate number of spill kits in relevant areas	During the Construction Phase	ECO	Monthly	Proof of appropriate number of spill kits in appropriate areas to be provided by the contractor
 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. 	cEO and Contractor	Storage and disposal of contaminated soil must be in accordance with the National Environmental Management:	During the Construction Phase	ECO	Monthly, and as and when required	Proof of storage and disposal in terms of the National Environmental Management:

Waste Act and	Waste Act must
sections 5.7 and	be provided.
5.8 of this EMPr	
	Certificates of
	disposal at
	licensed waste
	disposal facilities
	must be
	provided

5.18 Workshop, equipment maintenance and storage

Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of		Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
 Where possible and practical all maintenance of vehicles and equipment must take place in the workshop area; 	Contractor	Demarcate specific areas for the maintenance of vehicles and equipment	During the Construction Phase	ECO	Monthly	A dedicated area for the maintenance o vehicles and machinery i used.
 During servicing of vehicles or equipment, especially where emergency repairs are effected outside the workshop area, a suitable drip tray must be used to prevent spills onto the soil. The relevant local authority must be made aware of a fire as soon as it starts; 	Contractor	Ensure that a drip tray is available for an emergency repairs required	During the Construction Phase	ECO	Monthly	Contractor to provide evidence of drip tray use fo emergency repairs
 Leaking equipment must be repaired immediately or be removed from site to facilitate repair; 	Contractor	Ensure that where leaking equipment is	During the Construction Phase	ECO	Monthly	Contractor to provide detail of equipmer

		identified it is				repaired or
		repaired				removed from
		immediately or				site
		removed from				
		site for repairs				
- Workshop areas must be monitored for oil and fuel	cEO	Undertake	During the	ECO	Monthly	Register of
spills;		regular	Construction			inspection
		inspections of	Phase			
		the workshop				
		areas for oil and				
		fuel spills and				
		keep an				
		updated register				
		of inspection on				
		site				
- Appropriately sized spill kit kept onsite relevant to the	Contractor	Provide an	During the	ECO	Monthly, and as	Appropriate spill
scale of the activity taking place must be available;		appropriate spill	Construction		and when	kits are available
		kit for the project	Phase		required	for use
- The workshop area must have a bunded concrete slab	Contractor	Ensure that the	During the	ECO	Once, during	Workshop area is
that is sloped to facilitate runoff into a collection sump		workshop area is	Construction		the Construction	bunded in
or suitable oil / water separator where maintenance		sufficiently	Phase		Phase and as	accordance
work on vehicles and equipment can be performed;		bunded in			and when	with the required
		accordance			required	specification
		with the required				
		specification				
- Water drainage from the workshop must be contained	Contractor	Ensure that	During the	ECO	Monthly	Workshop
and managed in accordance Section 5.7: Storm and		water drainage	Construction			drainage is
waste water management.		from workshop	Phase			managed in
		area is				accordance
		managed as per				with the
		the				requirements
		requirements of				
		section 5.7				

5.19 Batching plants

Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence c compliance
 Concrete mixing must be carried out on an impermeable surface; 	Contractor	Provide impermeable surface for the mixing of concrete	During the Construction Phase	ECO	Weekly	No concret mixing undertaken o open ground
 Batching plants areas must be fitted with a containment facility for the collection of cement laden water. 	Contractor	Provide containment facility for the collection of cement laden water	During the Construction Phase	ECO	Weekly	No cemen laden water released into the environment
 Dirty water from the batching plant must be contained to prevent soil and groundwater contamination 	Contractor	Provide containment facility for the collection of cement laden water (dirty water)	During the Construction Phase	ECO	Weekly	No cemer laden water released into th environment
 Bagged cement must be stored in an appropriate facility and at least 10 m away from any water courses, gullies and drains; 	Contractor	Demarcate and provide a storage area for bagged cement in-line with the listed requirements	During the Construction Phase	ECO	Weekly	Photographic proof of bagged cement stored within the demarcated area

 A washout facility must be provided for washing of concrete associated equipment. Water used for washing must be restricted; 		Provide a washout facility for the washing of associated equipment. Enforce limitations on water use for washing of equipment	Construction Phase	ECO	Weekly	No cement laden water is released into the environment. Only minimal water is used for washing
 Hardened concrete from the washout facility or concrete mixer can either be reused or disposed of at an appropriate licensed disposal facility; 	Contractor	Make use of hardened concrete where possible or dispose of concrete in a suitable manner	During the Construction Phase	ECO	Monthly	Certificates of disposal of concrete at licensed waste disposal facility
 Empty cement bags must be secured with adequate binding material if these will be temporarily stored on site; 	Contractor	Bind empty cement bags and temporarily store it in an appropriate area on site	During the Construction Phase	ECO	Monthly	Proof of binding of empty cement bags and storage in an appropriate area on site to be provided by the Contractor
 Sand and aggregates containing cement must be kept damp to prevent the generation of dust (Refer to Section 5.20: Dust emissions) 	Contractor	Ensure that sand and aggregates are kept damp or otherwise protected from dust generation	0	ECO	Monthly	Proof of damping (or alternative dust suppression) of sand and aggregates must be provided by the Contractor

- Any excess sand, stone and cement must be removed	Contractor	Ensure that all	At the	ECO	Once, with the	Certificates for
or reused from site on completion of the construction		excess sand,	completion of		completion of	the disposal of
period and disposed at a registered disposal facility;		stone and	the Construction		construction	sand, stone and
		cement is	Phase			cement at
		removed or				licensed waste
		reused				disposal facilities
						or proof of reuse
						must be
						provided
- Temporary fencing must be erected around batching	Contractor	Erect temporary	During the	ECO	Weekly	Temporary
plants in accordance with Section 5.5: Fencing and		fencing around	Construction			fencing is
gate installation.		batching plants	Phase			undertaken in
		as per the				accordance
		requirements				with section 5.5
		listed in section				
		5.5				

5.20 Dust emissions

Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 Take all reasonable measures to minimise the generation of dust as a result of project development activities to the satisfaction of the ECO; 	Contractor	Apply appropriate dust suppressant	During the Construction Phase	ECO	Weekly	Contractor to provide proof of use of appropriate dust suppressants
 Removal of vegetation must be avoided until such time as soil stripping is required and similarly exposed surfaces must be re- vegetated or stabilised as soon as is practically possible; 	Contractor	Proper planning for vegetation removal must be undertaken as well as for the associated rehabilitation	During the Construction Phase and Rehabilitation	ECO	Weekly	Plan for implementation must be provided by the Contractor
 Excavation, handling and transport of erodible materials must be avoided under high wind conditions or when a visible dust plume is present; 	Contractor	Ensure that specific limitations are placed on the transport and handling of erodible materials during high wind conditions or when a visible dust plume is present	During the Construction Phase	ECO	Bi-weekly (every second week)	No complaints submitted in this regard

 During high wind conditions, the ECO must evaluate the situation and make recommendations as to whether dust-damping measures are adequate, or whether working will cease altogether until the wind speed drops to an acceptable level; 	ECO	ECO to provide adequate recommendatio ns	During the Construction Phase		Not Applicable	
 Where possible, soil stockpiles must be located in sheltered areas where they are not exposed to the erosive effects of the wind; 	Contractor	Place soil stockpiles in areas less affected by wind	During the Construction Phase	ECO	Bi-weekly (every second week)	Soil stockpiles are protected from wind erosion
 Where erosion of stockpiles becomes a problem, erosion control measures must be implemented at the discretion of the ECO; 	Contractor in consultation with the ECO	Contractor to implement erosion control measures as recommended and agreed with the ECO	During the Construction Phase	ECO	Weekly, until erosion is no longer a problem	Recommendati ons made by the ECO have been implemented by the Contractor
 Vehicle speeds must not exceed 40 km/h along dust roads or 20 km/h when traversing unconsolidated and non-vegetated areas; 	cEO / dEO / contractor	Inform all drivers of speed limits and place appropriate signage along the relevant roads	During the Construction Phase Operation Phase	ECO Operation and Maintenance team	Monthly	No complaints from community members are submitted
 Straw stabilisation must be applied at a rate of one bale/10 m² and harrowed into the top 100 mm of top material, for all completed earthworks; 	Contractor	Ensure that straw stabilisation is undertaken as per the listed requirements	During the Construction Phase	ECO	Monthly	Photographic record of all straw stabilisation undertaken
 For significant areas of excavation or exposed ground, dust suppression measures must be used to minimise the spread of dust. 	Contractor	Appropriate dust suppressant measures are implemented	During the Construction Phase	ECO	Weekly	Photographic record of measures being implemented and the results thereof

5.21 Blasting

Impact management outcome: Impact to the environment is minimized through a safe blasting practice.

Impact Management Actions	Implementation			Monitoring			
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence	of
	person	implementation	implementation	person		compliance	
 Any blasting activity must be conducted by a suitably licensed blasting contractor; and 	Not Applicable – r	no blasting propose	d				
 Notification of surrounding landowners, emergency services site personnel of blasting activity 24 hours prior to such activity taking place on Site. 		no blasting propose	d				

5.22 Noise

Impact Management outcome: Prevent unnecessary	noise to the envir	ronment by ensuri	ng that noise fror	n development a	ctivity is mitigated	l.
Impact Management Actions	Implementation			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person	implementation	implementation	person		compliance
– The Contractor must keep noise level within	Contractor	Ensure that noise	During the	ECO	Monthly, and as	No complaints
acceptable limits, Restrict the use of sound		limits do not	Construction		and when	registered in this
amplification equipment for communication and		exceed	Phase		required	regard. No
emergency only;		acceptable				amplification
		limits and avoid				equipment is
		the use of				used.
		amplification				
		communication				

 All vehicles and machinery must be fitted with appropriate silencing technology and must be properly maintained; 	Contractor	Provide and implement silencing technology	During the Construction Phase	ECO	Monthly, and as and when required	No complaints registered in this regard. Silencing technology is utilised.
 Any complaints received by the Contractor regarding noise must be recorded and communicated. Where possible or applicable, provide transport to and from the site on a daily basis for construction workers; 	CEO	Update complaints register. Provide daily transport to and from site for employees	During the Construction Phase	ECO	Monthly, and as and when required	Complaints register provided by the cEO and proof of transportation services provided
 Develop a Code of Conduct for the construction phase in terms of behaviour of construction staff. Operating hours as determined by the environmental authorisation are adhered to during the development phase. Where not defined, it must be ensured that development activities must still meet the impact management outcome related to noise management. 	Contractor in consultation	Compile a Code of Conduct for staff. Appropriate operating hours must be identified for the project.	Pre-construction and Construction	ECO	Once, prior to the commencemen t of construction	No complaints registered in this regard.

5.23 Fire prevention

Impact management outcome: Prevention of uncontrollable fires.								
Impact Management Actions	Implementation			Monitoring				
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of		
	person	implementation	implementation	person		compliance		
- Designate smoking areas where the fire hazard could	cEO /	Identify and	Pre-construction	ECO	Monthly	Photographic		
be regarded as insignificant;	Contractor	demarcate	& Construction			record of		
		through signage						

		for designated smoking areas				designated smoking area
 Firefighting equipment must be available on all vehicles located on site; 	cEO / dEO in consultation with the Contractor	Provide all vehicles with firefighting equipment	Construction	ECO	Monthly	All vehicles are fitted with firefighting equipment and the details thereof are provided by the cEO
 The local Fire Protection Agency (FPA) must be informed of construction activities; 	cEO in consultation with the ECO	Undertake formal consultation to inform the local FPA of the associated construction activities	Pre-construction	ECO	Once, during the commencemen t of the Construction Phase	Proof of consultation with the FPA
 Contact numbers for the FPA and emergency services must be communicated in environmental awareness training and displayed at a central location on site; 	dEO / cEO / Contractor in consultation with the ECO	Develop environmental awareness training material which covers the contact numbers for the FPA and emergency services. Place the contact numbers for the FPA and emergency	Pre-construction & Construction	ECO	Prior to the commencemen t of the environmental awareness training and once during the construction phase	Environmental awareness training material requirements checklist and photographic record of contact numbers on display

		services at a			
		visible and			
		central location			
- Two-way swop of contact details between ECO and	ECO	Consultation	Pre-construction	Not Applicable	
FPA.		between the			
		ECO and FPA in			
		order to			
		exchange			
		contact details			

5.24 Stockpiling and stockpile areas

Impact management outcome: Reduce erosion and	sedimentation as	a result of stockp	iling.			
Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 All material that is excavated during the project development phase (either during piling (if required) or earthworks) must be stored appropriately on site in order to minimise impacts to watercourses and water bodies; 	Contractor	Identify and demarcate an appropriate location for the storage of excavated materials	Pre-construction & Construction	ECO	Monthly	Excavated material is not stored within sensitive environmental areas
 All stockpiled material must be maintained and kept clear of weeds and alien vegetation growth by undertaking regular weeding and control methods; 	Contractor	Implement appropriate and sufficient maintenance on stockpiled material regularly	During the Construction Phase	ECO	Bi-monhtly (every second month)	Stockpiled material is maintained sufficiently and is clear of weeds and alien vegetation

- Topsoil stockpiles must not exceed 2 m in height;	Contractor	Enforce	During the	ECO	Bi-monthly	Topsoil stockpiles
		limitations for the	Construction		(every second	do not exceed
		height of topsoil	Phase		month)	2m in height
		stockpiles				
- During periods of strong winds and heavy rain, the	Contractor	Appropriate	During the	ECO	Monthly	Contractor to
stockpiles must be covered with appropriate material		material must be	Construction			provide proof of
(e.g. cloth, tarpaulin etc.);		provided in	Phase			availability of
		order to cover				appropriate
		stockpiles when				material to
		required				cover stockpiles
						when required
- Where possible, sandbags (or similar) must be placed	Contractor	Sandbags must	During the	ECO	Monthly	Contractor to
at the bases of the stockpiled material in order to		be provided in	Construction			provide proof of
prevent erosion of the material.		order to prevent	Phase			availability of
		erosion of				sandbags to
		stockpiled				prevent erosion
		materials				of stockpiled
						materials

5.25 Civil works

Impact management outcome: Impact to the environment minimised during civil works to create the substation terrace.

Impact Management Actions	Implementation A			Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence compliance	of
 Where terracing is required, topsoil must be collected and retained for the purpose of re-use later to rehabilitate disturbed areas not covered by yard stone; 		Collect and retain topsoil for terracing	- 0	ECO	Weekly	Proof collection an retaining topsoil	of nd of

 Areas to be rehabilitated include terrace embankments and areas outside the high voltage yards; 	Contractor	Undertake rehabilitation of terrace embankments and areas outside of the high voltage yard where applicable	During the Construction Phase Rehabilitation	ECO	Weekly	Photographic record of rehabilitation of terrace embankments and areas outside the high voltage yards
 Where required, all sloped areas must be stabilised to ensure proper rehabilitation is effected and erosion is controlled; 	Contractor	All disturbed slope areas must be stabilised	Rehabilitation	ECO	Weekly	Disturbed slopes are stabilised sufficiently
 These areas can be stabilised using design structures or vegetation as specified in the design to prevent erosion of embankments. The contract design specifications must be adhered to and implemented strictly; 	Contractor	Stabilise slopes as per the design specifications	Pre-construction & Rehabilitation	ECO	Weekly	Slopes are stabilised as per the design specifications
 Rehabilitation of the disturbed areas must be managed in accordance with Section 5.35: Landscaping and rehabilitation; 	Contractor	Undertaken rehabilitation of disturbed areas as per the requirements listed under section 5.35	Rehabilitation	ECO	Weekly	Rehabilitation of disturbed areas is undertaken in- line with the requirements of section 5.35
 All excess spoil generated during terracing activities must be disposed of in an appropriate manner and at a recognised landfill site; and 	Contractor	Use a licensed waste disposal facility for the disposal of excess spoil	During the Construction Phase	ECO	Monthly	Certificates obtained for the disposal of excess spoil at a licensed waste disposal facility
 Spoil can however be used for landscaping purposes and must be covered with a layer of 150 mm topsoil for rehabilitation purposes. 	Contractor	Spoil used for landscaping must be applied as per the listed requirements	Construction and Rehabilitation	ECO	Monthly	Photographic record of spoil used for landscaping purposes as well

			as feedback
			from the
			contractor

5.26 Excavation of foundation, cable trenching and drainage systems

Impact Management Actions	Implementation			Monitoring				
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance		
 All excess spoil generated during foundation excavation must be disposed of in an appropriate manner and at a licensed landfill site, if not used for backfilling purposes; 	Contractor	Use a licensed waste disposal facility for the disposal of excess spoil	During the Construction Phase	ECO	Monthly	Certificates obtained for the disposal of excess spoil at a licensed waste disposal facility		
 Spoil can however be used for landscaping purposes and must be covered with a layer of 150 mm topsoil for rehabilitation purposes; 	Contractor	Spoil used for landscaping must be applied as per the listed requirements	Construction and Rehabilitation	ECO	Monthly	Photographic record of spoil used for landscaping purposes as well as feedback from the contractor		
 Management of equipment for excavation purposes must be undertaken in accordance with Section 5.18: Workshop, equipment maintenance and storage; and 	Contractor	Undertake the management of equipment for excavation as per the requirements of section 5.18	During the Construction Phase	ECO	Monthly	Management of equipment is undertaken in line with the requirements of section 5.18		

- Hazardous substances spills from equipment must be	Contractor	Undertake the	During the	ECO	Monthly	Management of
managed in accordance with Section 5.17: Hazardous		management of	Construction			hazardous
substances.		hazardous	Phase			substances spills
		substances spills				from equipment
		from equipment				is undertaken in
		as per the				line with the
		requirements of				requirements of
		section 5.17				section 5.17

5.27 Installation of foundations, cable trenching and drainage systems

Impact management outcome: No environmental degradation occurs during the installation of foundation, cable trenching and drainage system.

Impact Management Actions	Implementation			Monitoring			
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
 Batching of cement to be undertaken in accordance with Section 5.19: Batching plants; and 	Contractor	Undertake the batching of cement as per the requirements of section 5.19	During the Construction Phase	ECO	Monthly	Management of batching cement is undertaken in line with the requirements of section 5.19	
 Residual solid waste must be disposed of in accordance with Section 5.8: Solid waste and hazardous management. 	Contractor	Undertake the disposal of solid waste as per the requirements of section 5.8	During the Construction Phase	ECO	Monthly	The disposal of solid waste is undertaken in line with section 5.8.	

5.28 Installation of equipment (circuit breakers, current Transformers, Isolators, Insulators, surge arresters, voltage transformers, earth switches)

Impact management outcome: No environmental degradation occurs as a result of installation of equipment.

Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 Management of dust must be conducted in accordance with Section 5. 20: Dust emissions; 	Contractor	Manage dust as per the requirements of section5.20	During the Construction Phase	ECO	Weekly	The management of dust is undertaken as per the requirements of section 5.20
 Management of equipment used for installation must be conducted in accordance with Section 5.18: Workshop, equipment maintenance and storage; 	Contractor	Undertake the management of equipment for installation as per the requirements of section 5.18	During the Construction Phase	ECO	Monthly	Management of equipment is undertaken in line with the requirements of section 5.18
 Management of hazardous substances and any associated spills must be conducted in accordance with Section 5.17: Hazardous substances; and 	Contractor	Undertake the management of hazardous substances and associated spills as per the requirements of section 5.17	During the Construction Phase	ECO	Monthly	Management of hazardous substances and associated spills is undertaken in line with the requirements of section 5.17
 Residual solid waste must be recycled or disposed of in accordance with Section 5.8: Solid waste and hazardous management. 	Contractor	Undertake the recycling or disposal of residual solid	During the Construction Phase	ECO	Monthly	The recycling or disposal of residual solid waste is

waste as per the	undertaken in
requirements of	line with section
section 5.8	5.8.

5.29 Steelwork Assembly and Erection

Impact Management Actions	Implementation /			Monitoring		
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of
	person implementa	implementation	implementation	person		compliance
 During assembly, care must be taken to ensure that no wasted/unused materials are left on site e.g. bolts and nuts 	Contractor	Inspect areas where construction is being undertaken and remove and appropriately dispose of wasted/unused materials	During the Construction Phase	ECO	Weekly	Contractor to provide proof or inspection and removal or waste/unused materials and the appropriate disposal thereor (i.e. disposa certificates)
 Emergency repairs due to breakages of equipment must be managed in accordance with Section 5.18: Workshop, equipment maintenance and storage and Section 5.16: Emergency procedures. 	Contractor	Undertake emergency repairs of equipment as per the requirements of section 5.18 and 5.16	During the Construction Phase	ECO	Weekly	Emergency repairs o equipment is undertaken as per the requirements o section 5.18 and 5.16

5.30 Cabling and Stringing

Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance
 Residual solid waste (off cuts etc.) shall be recycled or disposed of in accordance with Section 5.8: Solid waste and hazardous Management; 	Contractor	Undertake the recycling or disposal of residual solid waste as per the requirements of section 5.8	During the Construction Phase	ECO	Monthly	The recycling or disposal of residual solid waste is undertaken in line with section 5.8.
 Management of equipment used for installation shall be conducted in accordance with Section 5.18: Workshop, equipment maintenance and storage; 	Contractor	Undertake the management of equipment for installation as per the requirements of section 5.18	Construction	ECO	Monthly	Management of equipment for installation is undertaken in line with the requirements of section 5.18
 Management of hazardous substances and any associated spills shall be conducted in accordance with Section 5.17: Hazardous substances. 	Contractor	Undertake the management of hazardous substances and associated spills as per the requirements of section 5.17	J	ECO	Monthly	Management of hazardous substances and associated spills is undertaken in line with the requirements of section 5.17

5.31 Testing and Commissioning (all equipment testing, earthing system, system integration)

Impact management outcome: No environmental degradation occurs as a result of Testing and Commissioning.

Impact Management Actions	Implementation	ementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence of compliance	
 Residual solid waste must be recycled or disposed of in accordance with Section 5.8: Solid waste and hazardous management. 		Undertake the recycling or disposal of residual solid waste as per the requirements of section 5.8	During the Construction Phase	ECO	Monthly	The recycling or disposal of residual solid waste is undertaken in line with section 5.8.	

5.32 Socio-economic

Impact management outcome: enhanced socio-economic development.							
Impact Management Actions	Implementation			Monitoring			
	Desceration	Mathead of	Time of round of for	Descarsible	Ere en le le el l	Evidence of	
	Responsible	Method of	Timeframe for	Responsible	Frequency	Evidence of	
	person	implementation	implementation	person		compliance	
- Develop and implement communication strategies to	dEO / cEO	Identify and	Pre-construction	ECO	Once, prior to	Communication	
facilitate public participation;		implement	& Construction		the	is undertaken as	
		appropriate			commencemen	per the	
		strategies for			t of construction	identified	
		communication			and monthly	strategies and	
		with the			during the	no complaints	
		communities			construction	are submitted	
		through				regarding	
		consideration of				communication	

		the community needs				
 Develop and implement a collaborative and constructive approach to conflict resolution as part of the external stakeholder engagement process; 	Contractor	Development and implement a Grievance Mechanism which considers the community needs and provides procedures for conflict resolution	Pre-construction & Construction	ECO	Once, prior to the commencemen t of construction and monthly during the construction phase	Conflict resolution is undertaken in line with the requirements of the Grievance Mechanism. No complaints on conflict resolution is submitted by the community
 Sustain continuous communication and liaison with neighboring owners and residents 	Contractor	Development and implement a Grievance Mechanism which provides procedures for communication / liaison with neighbouring landowners and residents	Pre-construction & Construction	ECO	Once, prior to the commencemen t of construction and monthly during the construction phase	Communication / liaison with neighbouring landowners and residents are undertaken in line with the requirements of the Grievance Mechanism. No complaints on communication with neighbouring landowners and residents is submitted
 Create work and training opportunities for local stakeholders; and 	Contractor	Develop and implement a "locals first" policy for the	Pre-construction & Construction	ECO	Once, prior to the commencemen t of construction	The "locals first" policy is considered in terms of the

	provision of			and monthly	employment
	employment			during the	and training
	opportunities as			construction	opportunities
	far as			phase	
	reasonably				
	possible				
- Where feasible, no workers, with the exception of	Not Applicable - no workers, other th	an security is propos	sed to stay on-site o	overnight.	
security personnel, must be permitted to stay over-					
night on the site. This would reduce the risk to local					
farmers.					

5.33 Temporary closure of site

Impact Management Actions	Implementation	Implementation I				
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence c compliance
 Bunds must be emptied (where applicable) and need to be undertaken in accordance with the impact management actions included in sections 5.17: Hazardous substances and 5.18: Workshop, equipment maintenance and storage; 	Contractor	Regular emptying of the bunds must be undertaken. This must be undertaken as per the requirements listed in sections 5.17 and 5.18	During the Construction Phase	ECO	Prior to site closure for more than 05 days	Bunds ar emptied as pe the requirements listed unde sections 5.1 and 5.18
 Hazardous storage areas must be well ventilated; 	Contractor	Install appropriate ventilation in all	During the construction phase	ECO	Prior to site closure for more than 05 days	Effective ventilation installed i

			azardous torage areas				hazardous storage areas
 Fire extinguishers must be serviced and accessible. Service records to be filed and audited at last service; 	Contractor cEO	ex se re ec wi sig ind se ar	nsure fire extinguishers are erviced, as equired and are easily accessible with appropriate ignage ndicating pocation. Ensure ervice records are kept up to late and filed	During the Construction Phase	ECO	Prior to site closure for more than 05 days	Signage placed indicating location of fire extinguishers and service records
 Emergency and contact details displayed must be displayed; 	Contractor cEO	er cc wl re ar	lace emergency and contact details which are eadily available and easily accessible	During the Construction Phase	ECO	Prior to site closure for more than 05 days	Photographic proof of contact details on display
 Security personnel must be briefed and have the facilities to contact or be contacted by relevant management and emergency personnel; 	Contractor i consultation with the ECO	wi pe pr of ar Pr in cc m ar	lold a workshop with all security personnel to provide a brief of the project and security equirements. rovide facilities or order to contact management and emergency personnel	Pre-construction & construction	ECO	Prior to site closure for more than 05 days	Proof of the workshop held must be kept on file by the contractor.

Night hazards such as reflectors, lighting, traffic signage etc. must have been checked;		Regular checks of night hazards must be undertaken	Construction Phase	ECO	Prior to site closure for more than 05 days Prior to site	Proof of checks of night hazards must be provided by the contractor
 Fire hazards identified and the local authority must have been notified of any potential threats e.g. large brush stockpiles, fuels etc.; 	cEO / Contractor in consultation with the ECO	Identify any potential fire hazards and notify the relevant local authority	During the Construction Phase	ECO	Prior to site closure for more than 05 days	Proof of notification of the fire hazards to the local authority must be provided by the Contractor
 Structures vulnerable to high winds must be secured; 	Contractor	Ensure structures vulnerable to wind is secure prior to site closure	During the Construction Phase	ECO	Prior to site closure for more than 05 days	Structures vulnerable to wind is secured prior to site closure
 Wind and dust mitigation must be implemented; 	Contractor	Implement wind and dust mitigation prior to site closure	During the Construction Phase	ECO	Prior to site closure for more than 05 days	Wind and dust mitigation is implemented prior to site closure
 Cement and materials stores must have been secured; 	Contractor	Ensure cement and material stores are secured prior to site closure	During the Construction Phase	ECO	Prior to site closure for more than 05 days	Cement and material stores are secured prior to site closure
 Toilets must have been emptied and secured; 	Contractor	Ensure toilets are emptied and secured prior to site closure	During the Construction Phase	ECO	Prior to site closure for more than 05 days	Toilets are emptied and secured prior to site closure
 Refuse bins must have been emptied and secured; 	Contractor	Ensure refuse bins are emptied and secured	During the Construction Phase	ECO	Prior to site closure for more than 05 days	Refuse bins are emptied and secured prior to site closure

		prior to site closure				
 Drip trays must have been emptied and secured. 	Contractor	Ensure drip trays are emptied and secured prior to site closure	Construction	ECO	Prior to site closure for more than 05 days	' '

5.34 Dismantling of old equipment

Impact Management Actions	Implementation	1		Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence c compliance
 All old equipment removed during the project must be stored in such a way as to prevent pollution of the environment; 	Contractor	Appropriately store old equipment in a manner which prevents pollution to the environment. This could include the construction of bunded areas	Decommissionin g	Eco	Monthly	Photographic record c appropriate storage of old equipment
 Oil containing equipment must be stored to prevent leaking or be stored on drip trays; 	Contractor	Appropriately store equipment containing oil through the use of drip trays or	Decommissionin g	Eco	Monthly	Photographic record c appropriate storage c equipment containing oil

		other suitable methods				
 All scrap steel must be stacked neatly and any disused and broken insulators must be stored in containers; 	Contractor	Ensure all scrap steel is stacked neatly and store disused and broken insulators in appropriate containers	Decommissionin g	Eco	Monthly	Photographic record of stacked scrap steel and containers containing broken and disused insulators
 Once material has been scrapped and the contract has been placed for removal, the disposal Contractor must ensure that any equipment containing pollution causing substances is dismantled and transported in such a way as to prevent spillage and pollution of the environment; 	Contractor	Develop and implement a procedure for the dismantling and transportation of equipment containing pollution causing substances which prevents spillage and pollution of the environment	Decommissionin g	Eco	Monthly	Proof from contractor that dismantling and transportation of equipment containing pollution causing substances has been undertaken in an appropriate manner
 The Contractor must also be equipped to contain and clean up any pollution causing spills; and 	Contractor	Ensure sufficient spill kits are available for the clean up of pollution causing spills	Decommissionin g	Eco	Monthly	Sufficient spill kits are available on site
 Disposal of unusable material must be at a licensed waste disposal site. 	Contractor	Make use of a licensed waste disposal site	Decommissionin g	Eco	Monthly	Certificates obtained for the disposal at a

		licensed waste disposal site
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5.35 Landscaping and rehabilitation

Impact Management Actions	Implementation			Monitoring		
	Responsible person	Method of implementation	Timeframe for implementation	Responsible person	Frequency	Evidence compliance
 All areas disturbed by construction activities must be subject to landscaping and rehabilitation; All spoil and waste must be disposed of to a registered waste site; 	Contractor	Develop and implement a rehabilitation plan for the rehabilitation of all disturbed areas. Dispose of all spoil and waste at a licensed waste disposal facility	Pre-construction & Rehabilitation	ECO	Weekly	Rehabilitation of the disturbe areas undertaken of per th rehabilitation plan. A certificates of waste dispose at license facilities ar available.
All slopes must be assessed for contouring, and to contour only when the need is identified in accordance with the Conservation of Agricultural Resources Act, No 43 of 1983	Contractor in consultation with the ECO	and determine whether contouring is required		ECO	Weekly	All slopes a assessed ar contoured required
All slopes must be assessed for terracing, and to terrace only when the need is identified in accordance with the Conservation of Agricultural Resources Act, No 43 of 1983;	Contractor in consultation with the ECO	Assess all slopes and determine whether	Rehabilitation	ECO	Weekly	All slopes a assessed ar terraced required

		terracing is required				
 Berms that have been created must have a slope of 1:4 and be replanted with indigenous species and grasses that approximates the original condition; 	Contractor	Ensure all berms have a slope of 1:4 and is replanted with indigenous species and grasses	Rehabilitation	ECO	Weekly	All berms have a slope of 1:4 and is replanted with indigenous species and grasses
 Where new access roads have crossed cultivated farmlands, that lands must be rehabilitated by ripping which must be agreed to by the holder of the EA and the landowners; 	Not applicable					
 Rehabilitation of access roads inside of farmland; 	Not applicable					
 Indigenous species must be used for with species and/grasses to where it compliments or approximates the original condition; 	Contractor	Make use of indigenous species for rehabilitation	Rehabilitation	ECO	Weekly	Indigenous species are used for rehabilitation
 Stockpiled topsoil must be used for rehabilitation (refer to Section 5.24: Stockpiling and stockpiled areas); 	Contractor	Ensure stockpiled topsoil is used as per the requirements listed under section 5.24	Rehabilitation	ECO	Weekly	Stockpiled topsoil is used as per the requirements listed under section 5.24
 Stockpiled topsoil must be evenly spread so as to facilitate seeding and minimise loss of soil due to erosion; 	Contractor	Ensure that topsoil is spread evenly	Rehabilitation	ECO	Weekly	Topsoil is spread evenly
 Before placing topsoil, all visible weeds from the placement area and from the topsoil must be removed; 	Contractor	Remove all visible weeds from placement area and topsoil before spreading the topsoil	Rehabilitation	ECO	Weekly	No weeds are visible in the placement area or the topsoil

 Subsoil must be ripped before topsoil is placed; 	Contractor	Undertake the ripping of subsoil prior to the spreading of topsoil	Rehabilitation	ECO	Weekly	Subsoil is ripped before topsoil is placed
 The rehabilitation must be timed so that rehabilitation can take place at the optimal time for vegetation establishment; 	Contractor	Plan the timeframe for rehabilitation in order to undertake vegetation planting during the optimal time for vegetation establishment	Rehabilitation	ECO	At the start of rehabilitation to confirm the correct timeframe	Rehabilitation is undertaken during the optimal time
 Where impacted through construction related activity, all sloped areas must be stabilised to ensure proper rehabilitation is effected and erosion is controlled; 	Contractor	All disturbed slope areas must be stabilised	Rehabilitation	ECO	Weekly	Disturbed slopes are stabilised sufficiently
 Sloped areas stabilised using design structures or vegetation as specified in the design to prevent erosion of embankments. The contract design specifications must be adhered to and implemented strictly; 	Contractor	Stabilise slopes as per the design specifications	Pre-construction & Rehabilitation	ECO	Weekly	Slopes are stabilised as per the design specifications
 Spoil can be used for backfilling or landscaping as long as it is covered by a minimum of 150 mm of topsoil. 	Contractor	Spoil used for landscaping must be applied as per the listed requirements	Rehabilitation	ECO	Weekly	Photographic record of spoil used for landscaping purposes as well as feedback from the contractor
 Where required, re-vegetation including hydro- seeding can be enhanced using a vegetation seed mixture as described below. A mixture of seed can be 	Contractor in consultation with a suitably	suitable	Rehabilitation	ECO	As and when required	Use of a suitable vegetation seed

used provided the mixture is carefully selected to	qualified	mixture should		mixture	if
ensure the following:	specialist	enhancement		required	
a) Annual and perennial plants are chosen;		be required			
b) Pioneer species are included;					
c) Species chosen must be indigenous to the area with					
the seeds used coming from the area;					
d) Root systems must have a binding effect on the soil;					
e) The final product must not cause an ecological					
imbalance in the area					

6 ACCESS TO THE GENERIC EMPr

Once completed and signed, to allow the public access to the generic EMPr, the holder of the EA must make the EMPr available to the public in accordance with the requirements of Regulation 26(h) of the EIA Regulations.

PART B: SECTION 2

7. SITE SPECIFIC INFORMATION AND DECLARATION

7.1. Sub-section 1: contact details and description of the project

7.1.1. Details of the Applicant:

Applicant Name	Genesis Eco-Energy Developments (Pty) Ltd
Contact Person	Davin Chown
Physical Address	39 De Villiers Road, Kommetjie, Cape Town
Postal Address	PO Box 363 Newlands Cape Town
Cell	083 460 3898
Email Address	davin@genesis-eco.com

7.1.2. Details and Expertise of Environmental Assessment Practitioner (EAP)

EAP Name	Karen Jodas				
EAP Qualifications	M.Sc in Geography (Geomorphology), Rhodes University, Grahamstown, 1996				
Professional	SACNASP				
Affiliation/Registration	EAPASA				
Physical Address	First Floor, Block 2 5 Woodlands Drive Office Park Cnr Woodlands Drive & Western Service Road Woodmead 2191				
Telephone	011 656 3237				
Fax	086 684 0547				
Cell	082-775 5628				
Email Address	karen@savannahsa.com				

Refer to **Appendix A** of the EMPr for the detailed experience of the EAP and the Project Team.

7.1.3. Project Details

ESTABLISHMENT OF 132kV GRID CONNECTION INFRASTRUCTURE FOR THE WOODHOUSE 1 AND WOODHOUSE 2 SOLAR ENERGY FACILITIES, NORTH WEST PROVINCE

7.1.4. Project Description

Genesis Eco-Energy Developments (Pty) Ltd is proposing the construction of a 132kV power line, switching station and collector substation to connect the authorised Woodhouse Solar 1 PV and Woodhouse Solar 2 PV energy facilities to the Eskom grid via the existing Bophirima Substation.

The grid connection infrastructure will consist of:

- » 132kV switching station (footprint up to 1ha)
- » 132kV power line (within 200m wide corridor)
- » Collector substation (footprint up to 1ha)
- » 22kV underground cables to connect to the Solar PV energy facilities' substations
- » Access roads to substation sites and service tracks (up to 4m wide) where no existing roads are available.

such, the 200m wide power line corridor is shared/common for the bulk of its length, and deviates only to accommodate these two alternative positions for the Collector substation. This assessment, therefore, considers two alternative grid connection solutions, both originating at the same point, and terminating at Bophirima Substation. The alternative grid connection configurations assessed include:

Grid Connection Alternative 1: A 132kV switching substation located north of the authorised Woodhouse 2 Solar facility, as well as a 132kV power line, positioned to the western side of the Amalia main road, which feeds to Collector Substation Alternative 1. The Collector Substation Alternative 1 is located west of the authorised Woodhouse 1 Solar facility. A 132kV power line will run east from Collector Substation Alternative 1 to connect at Bophirima Substation. The connection to Bophirima Substation will be at the eastern side of the substation via a 132kV underground power line within the Eskom Servitude Area.

Grid Connection Alternative 2: A 132kV switching substation located north of the authorised Woodhouse 2 Solar facility, as well as a 132kV power line, positioned to the western side of the Amalia main road, which feeds to Collector Substation Alternative 2. The Collector Substation Alternative 2 is located north of the authorised Woodhouse 1 Solar facility. A 132kV power line will run from Collector Substation Alternative 2 south to connect to Bophirima Substation. The connection to Bophirima Substation will be at the eastern side of the substation via a 132kV underground power line within the Eskom Servitude Area.

The proposed grid connection infrastructure will be located within the Naledi Local Municipality on the following farm portions as follows:

- » Farm Waterloo 992 (Switching Station & Overhead Power Line)
- » Portion 2 of Farm Woodhouse 729 (Overhead Power Line, Collector Substation Alt 1, Access Road)
- » Portion 2 of the Farm Bernauw 674 (Overhead Power Line)
- » Remaining Extent of Portion 56 of the Farm Bernauw 674 (Collector Substation Alt 2, Overhead Power Line, Access Road)
- » Remaining Extent of Farm Woodhouse 729 / Eskom Servitude Area (Underground Power Lines)

7.1.5. Project Location

Location details of the development of the substation:

Province/s	North West
District Municipality/ies	Dr Ruth Segomotsi Mompati District Municipality
Local Municipality/ies	Naledi Local Municipality

Ward number/s	5
Nearest town/s	Vryburg (10km), Huhundi, Delareyville, Stella, Schweizer-Reneke
Farm and Portion number/s	Portion 2 of Farm Woodhouse 729 Remaining Extent of Portion 56 of the Farm Bernauw 674

7.1.6. Preliminary Technical Specifications of the Collector Substation

Infrastructure	Footprint, dimensions and details
Substation Capacity	132kV
Development Footprint	Approximately 1ha

It should be noted that Eskom's requirements for work in or near Eskom servitudes should be adhered to.

7.2. Sub-section 2: Development footprint site map

This sub-section must include a map of the site sensitivity overlaid with the preliminary infrastructure layout. The sensitivity map must be prepared from the national web based environmental screening tool, when available for compulsory use at: https://screening.environment.gov.za/screeningtool. The sensitivity map shall identify the nature of each sensitive feature e.g. threatened plant species, archaeological site, etc. Sensitivity maps shall identify features both within the planned working area and any known sensitive features within 50 m from the development footprint.

The national web-based environmental screening tool was utilised for this project and the grid connection corridor sensitivity maps can be seen in Figures 3 to 7. The site-specific environmental sensitivity map included in the BA Report is included as Figure 2.

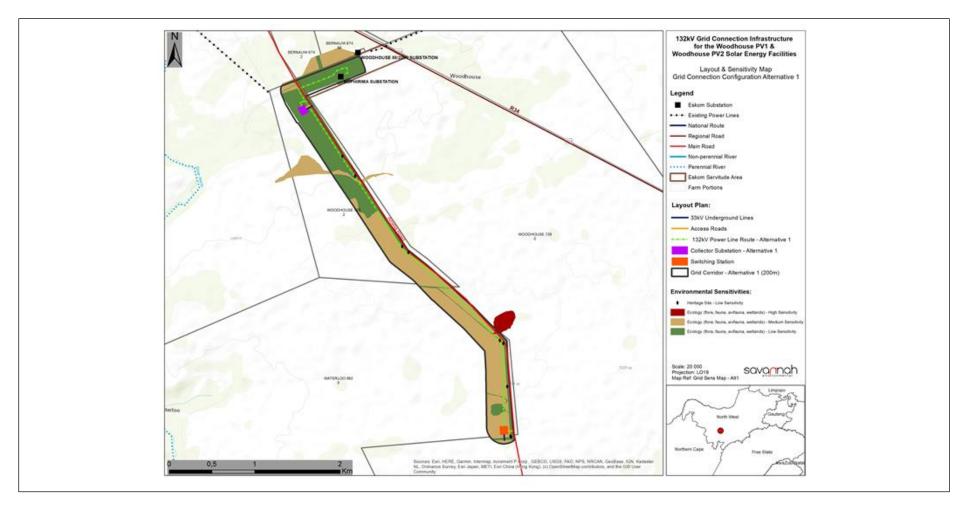


Figure 2: Environmental sensitivity map generated from the Basic Assessment overlain with the proposed grid connection corridor within which the collector substation (preferred) is proposed to be developed.

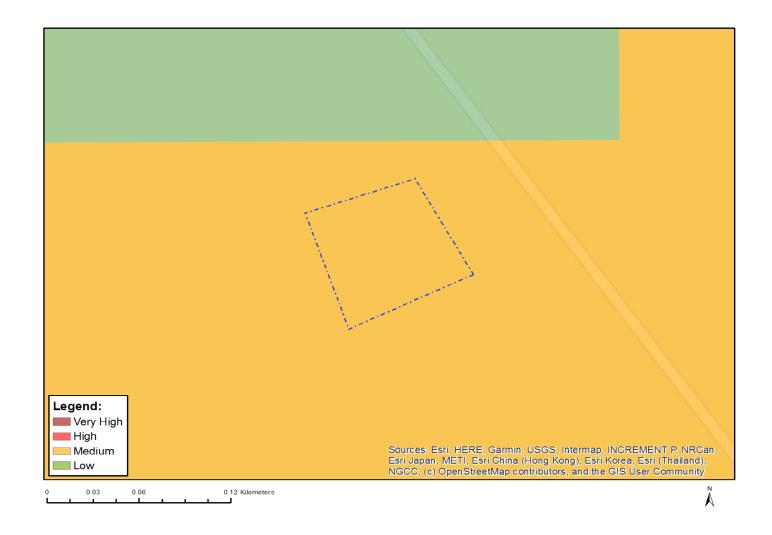


Figure 3: Map of Relative Agriculture Theme Sensitivity



Figure 4: Map of Relative Animal Species Theme Sensitivity



Figure 5:Map of Relative Aquatic Biodiversity Sensitivity



Figure 6: Map of Relative Plant Species Theme Sensitivity



Figure 7: Map of Terrestrial Biodiversity Theme Sensitivity

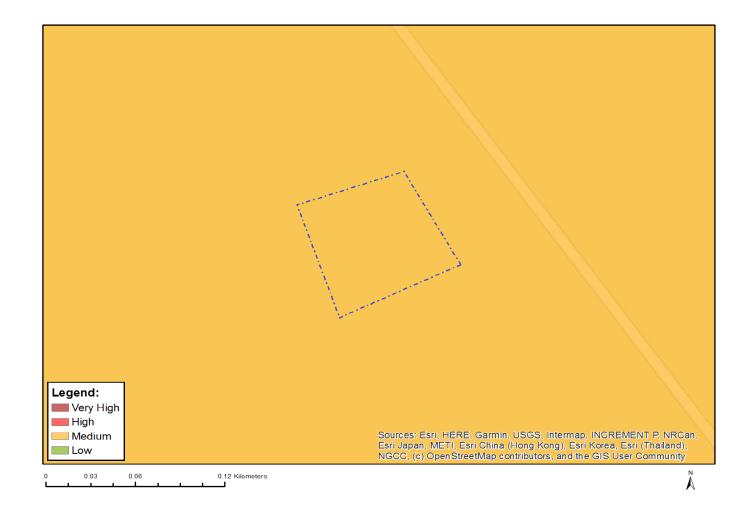


Figure 7: Map of Paleontological Theme Sensitivity

7.1 Sub-section 3: Declaration

The proponent/applicant or holder of the EA affirms that he/she will abide and comply with the prescribed impact management outcomes and impact management actions as stipulated in part B: section 1 of the generic EMPr and have the understanding that the impact management outcomes and impact management actions are legally binding. The proponent/applicant or holder of the EA affirms that he/she will provide written notice to the CA 14 day prior to the date on which the activity will commence of commencement of construction to facilitate compliance inspections.

This declaration will be signed by the proponent/applicant/holder of the EA once the contractor is appointed and has provided inputs to this Generic EMPr as per the requirements of this template.

7.2 Sub-section 4: amendments to site specific information (Part B; section 2)

Should the EA be transferred to a new holder, <u>Part B: Section 2</u> must be completed by the new holder and submitted with the application for an amendment of the EA in terms of Regulations 29 or 31 of the EIA Regulations, whichever applies. The information submitted for an amendment to an environmental authorisation will be considered to be incomplete should a signed copy of <u>Part B: Section 2</u> not be submitted. Once approved, <u>Part B: Section 2</u> forms part of the EMPr for the development and the EMPr becomes legally binding to the new EA holder.

PART C

8. SITE SPECIFIC ENVIRONMENTAL ATTRIBUTES

If any specific environmental sensitivities/attributes are present on the site which require more specific impact management outcomes and actions, not included in the pre-approved generic EMPr template, to manage impacts, those impact management outcomes and impact management actions must be included in this section. These specific management controls must be referenced spatially, and must include impact management outcomes and impact management actions. The management controls including impact management outcomes and impact management actions must be presented in the format of the preapproved generic EMPr template. This applies only to additional impact management outcomes and impact management actions that are necessary.

If <u>Part C</u> is applicable to the development as authorised in the EA, it is required to be submitted to the CA together with the BAR or EIAR, for consideration of, and decision on, the application for EA. The information in this section must be prepared by an EAP and the name and expertise of the EAP, including the curriculum vitae are to be included. Once approved, <u>Part C</u> forms part of the EMPr for the site and is legally binding.

This section will **not be required** should the site contain no specific environmental sensitivities or attributes.

APPENDIX 1: METHOD STATEMENTS

To be prepared by the contractor prior to commencement of the activity. The method statements are **not required** to be submitted to the CA.

APPENDIX 2: CV OF THE EAP