

# ENVIRONMENTAL MONOTORING REPORT FOR WOLMARANSSTAD EXT. 15 ELECTRIFICATION PROJECT IN MAQUASSIE HILLS LOCAL MUNICIPALITY IN THE NORTH WEST PROVINCE

SAHRA PERMIT CASE ID: 13395

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Date: 20 February 2020

Signature. A day...

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# Acronyms

EMPr	Environmental Management Programme
DEA	Department of Environmental Affairs
DWS	Department of Water Affairs and Sanitation
ECO	Environmental Control Officer
EO	Environmental Officer
ELO	Environmental Liaison Officer
MC	Main Contractor
OHSA	Occupational Health & Safety Act
PPE	Personal Protective Equipment
EA	Environmental Authorisation
WUL	Water Use License
DAFF	Department of Agriculture, Forestry and Fisheries
SAHRA	South African Heritage Resources Agency

#### 1. Introduction

This report serves to provide a summary of the findings/issues that have been identified during the construction environmental audit on 20 February 2020 for Wolmaransstad ext. 15 electrification project in Maquassie hills Local Municipality in the North West Province.

The aim of this internal environmental monitoring report is to review existing processes, document the potential areas of non-compliance, and determine potential improvements that can be made to ensure compliance with the conditions of the SAHRA permit received on the 11<sup>th</sup> October 2019 for the project and also avoid, where possible, negative impacts on project-affected ecosystems and communities.

No other environmental permits from various competent authorities were obtained for this project such as tree cutting permit, Water Use license.

#### 2. Compliance evaluation

In order to address the requirements of both Eskom and the Competent Authority (SAHRA), a Checklist has been prepared to discuss the findings on within the construction site of the Wolmaransstad ext.15 electrification project. Environmental specifications included in the audit checklist was based specifically on SAHRA permit and Eskom's Environmental Specifications applicable to the project. The checklist consists of a rating column and a compliance status report, which will indicate or reflect the level of compliance of the project to the EMPr and the SAHRA. The rating column is ranked from 0 - 1, where:

- 0 Contractor is not complying with the requirements of the EMPr and SAHRA permit at all, and is not making any efforts/no evidence to remediate the situation.
- 1 Contractor has fully complied with all EMPr requirements, SAHRA permit and specifications and to the satisfaction of the Eskom EO.

The compliance status reports will generally show the number of compliances and non-compliances per audit. The status report will also indicate the number of compliances versus non-compliances of the audit for the site. Please note that the audit process will classify activities/sections as **N/A** if the activity has not commenced or could not be determined by the auditors at the time this audit was undertaken.

The audit will also rate and consider some specifications as Work in progress (WIP). WIP will in this audit refer to an activity that has been started as an attempt by the Contractor to effectively curb, mitigate or address a particular environmental issue but had not fully completed by the time of the audit. All WIP's will not be scored/rated for the purposes of this audit but will be followed up in the next audit.

This report intends to provide information demonstrating the EMPr and SAHRA compliance of the project. The report contains the narrative on the status quo of the environmental compliance on site observed during the inspection as well as a checklist with a compliance score. For the purposes of this audit, the description of the scoring methodology in terms of the overall compliance is briefly explained as follows:

Description	Percentage Rating
Unsatisfactory	<50%
Satisfactory	>50% - <90%
Well compliant	>90%
Fully compliant	100%

#### **Construction Progress**

During the time monitoring was conducted the following areas were assessed

- Construction camp site Housekeeping and environmental file
- Construction site Wolmaransstad Ext 15

#### 1. Project documentation

The contractor's environmental file was on site. All permits for this project are found in the file onsite.

## 2. Site Camp

At the time of the site visit the construction personnel were preparing to go to site. All were wearing the appropriate PPE. The contractor was instructed to ensure that all stationary vehicles parked on site are fitted with a drip tray underneath to avoid environmental incidents.

# 3. Assembly Point

The emergency assembly point is situated near the camp site gate and with a signage that is visibly displayed on site.

# 4. Fire extinguishers and first aid kit

The camp site and construction site are equipped with sufficient fire extinguishers and first aid kit. The fire extinguishers were within service time frame.

#### 5. Waste Management

The site is equipped with three wheely waste disposal bins with lids. The waste bins are not appropriately labelled, therefore the contractor shall do so as soon as possible. Waste segregation and minimisation should be maintained on site.

### 6. Hazardous material and spill kit

There is no hazardous storage area erected by the contractor on site. At the time of audit no hazardous substances were stored onsite. The contractor is encouraged never to store any hazardous substances onsite.

Oil spill cleaning kit is found onsite and is accessible.

# 7. Material Storage

Material for the project is delivered, stored by the construction site camp and placed within a designated area. Material stored on site is adequately barricade.

# **ENVIRONMENTAL OFFICER NAME: NDOU ROSINA PROJECT NAME: Wolmaransstad ext. 15 electrification**

**SAHRA** conditions compliance checklist

Dated: 20 February 2020

#### 8. EVALUATION OF SAHRA CONDITIONS COMPLIANCE

8.	EVALUATION OF SAHRA CONDITIONS COMPLIANCE		ne appro	priate box
		Α	В	Comments and attachments
		_	0	
	SAHRA CONDITIONS			
ē				
Number				
Z	SAHRA PERMIT CONDITION	IS.		
	SAIIKA FERIMIT CONDITION	10		
1.	The installation of Electricity poles is to be done	1		The digging of the
	manually to avoid damaging graves, where possible			poles was done
				manually
				however stringing
				of the conductor
				was done using
				the truck using
				the existing roads
				in the area.
2	Electricity poles closer to the graves must be cut on	N/A		No poles are cut
	the surface instead of uprooting or excavating them should they need to be removed and reinserted,			to date
	careful site monitoring must be adhered to			
3	If significant heritage resources are encountered, they	1		None
	must be analysed by an Archaeologist and reported to SAHRA immediately.			encountered to
	,			date

4	Should any graves, or the presence of which was previously unknown be uncovered during the course of the development, all construction activities must be stopped and the site must be left undisturbed. SAHRA Burial Grounds and Graves (BGG) Unit must be immediately and informed to advice accordingly SAHRA BGG Unit (Thingahangwi Tshivhase/Mimi Seetelo 012 320 8490).	1	Condition noted and will be adhered to for the duration of the project however to date none is uncovered to date
5	If any evidence of any human remains, archaeological of paleontological sites or remains (e.g., remnants of stone-made structures, indigenous ceramics, bones, stone artefacts, ostrich eggshell fragments and charcoal/ash concentrations), fossils or other categories of heritage resources are found during the proposed activities, SAHRA APM Unit (Natasha Higgitt/Philip Hine 021 462 4502)	1	Condition noted and will be adhered to for the duration of the project
6	Professional archaeologist or palaeontologist, depending on the nature of the finds, must be contacted as soon as possible to inspect the findings	1	Condition noted and will be adhered to for the duration of the project
8	If the newly discovered heritage resources prove to be of archaeological or palaeontological significance a complete Phase 2 rescue operation might be necessary	1	Condition noted and will be adhered to for the duration of the project
9	All roads and access routes to be carefully monitored to ensure that graves are not disturbed or adversely affected due to activities on site.	1	Only existing roads to be used during the construction of the project
10	Human remains must at all times are to be handled and treated with respect and graves should not be disturbed where possible.	1	No graves are disturbed by the project to date
11	A final report must be uploaded to this case on SAHRIS for record purposes within 3months of project completion.	1	Condition noted and the report will be uploaded at

			the end of the
			project
	GENERAL CONDITIONS FROM THE H	IA REPORT	
1	Burial grounds and gravesites are accorded the	1	No graves are
	highest social significance threshold therefore must		being tempered
	not be tempered with or disturbed during construction.		with during
			construction and
			monitoring to
			continue until the
			project is
			energized.
2	Eskom environmental officer must closely monitor	1	Project is
	construction activities near the burial site and report		monitored closely
	any infringement of the grave yard.		by eskom
			environmental
			officer (Ndou
			Rosina)
3	All construction workers must be informed about the	1	Induction of all
	potential threats of their activities to the grave yard		the construction
	and must also be inducted.		workers was
			conducted at the
			beginning of the
			project
			construction on
			the 12 <sup>th</sup> February
			2020. See
			attached register
4	Construction activities must be stopped whenever	1	Construction only
	there is a burial ceremony or ritual activities at site.		happens during
			the week
			however should
			there be a burial
			ceremony or any

5	Construction teams must exercise due respect when working in the vicinity of the grave yard.	1	ritual activities the project construction will cease.  Contractor is well informed of this condition and Eskom EO will continue to monitor to ensure compliance
6	Eskom must consider appropriate mitigation measures to ensure that the affected graves are protected and custodians are duly informed before commencement of the project.	1	A meeting with Wolmaransstad ext.15 community was held on the 12 <sup>th</sup> December 2019.
7	Eskom must ensure that necessary contingencies are put in place and due diligence exercised in accordance with recommendations in this study to prevent accidental damage to graves and resultant conflicts with the affected families	1	Condition noted and will be adhered to for the duration of the project
8	The danger lies in the movement of construction vehicles during installation of poles and stringing.	1	All vehicles to be used during construction will be using the existing road that is within the village.
9	The potential damage can be minimized by digging pole foundations manually because driving construction vehicles near the cemetery may cause serious damage to unprotected graves.	1	The digging of the holes is been done manually however the installation and stringing has to

			ha dana wate w 0
			be done using the
			truck with care
			and monitoring at
			all times.
10	The Wolmaransstad communities should be informed	1	A meeting with
	about the construction of a power line in the vicinity of		Wolmaransstad
	an open cemetery and should be informed about the		ext.15 community
	potential impacts of the proposed development activities.		was held on the
			12 <sup>th</sup> December
			2019 before the
			project
			construction
			commences.
11	Construction workers must be inducted on the	1	Induction of all
	significance of graves and potential impacts of their activities to the affected graves as well as procedures		the construction
	for handling accidental damage to graves during		workers was
	construction.		conducted at the
			beginning of the
			project
			construction on
			the 12 <sup>th</sup> February
			2020. See
			attached register
12	Construction activities must be stopped should they	1	Construction only
	be a burial or ritual ceremony and the grave yard, disruption of such activities will not be tolerated by		happens during
	local communities.		the week
			however should
			there be a burial
			ceremony or any
			ritual activities the
			project
			construction will
			cease.
13	Eskom EO must induct construction workers regarding	1	Induction of all
	the potential risks associated with the construction of		the construction
	particularly the MV line and at the end to verify if any grave was affected by the project. This will minimize		workers was

	the chances of communities claiming undocumented damages to their family graves.		conducted at the beginning of the project construction on the 12 <sup>th</sup> February 2020. See attached register
14	If during the construction, operations or closure phases of this project, any person employed by the developer, one of its subsidiaries, contractors and subcontractors, or service provider, finds any artefact of cultural significance, work must cease at the site of the find and this person must report this find to their immediate supervisor, and through their supervisor to the senior on-site manager.	1	Condition noted and will the adhered to by all those who are involved in the project.
15	Eskom should consider employing local people for the construction work near the cemetery to encourage cooperation and tolerance for the project.	1	Local people employed to be part of the construction team as required.
16	The digging of any pole foundations within 20m from the burial site must be done manually to avoid excessive vibration from construction vehicles that can cause damage to graves with tombstones.	1	No poles will be installed within 20m however all holes in the vicinity of the graved are dug manually to avoid damage on the graves
17	No stone robbing or removal of any material is allowed. Any disturbance or alteration on this grave would be illegal and punishable by law, under section 36 (3) of the National Heritage Resources Act NHRA of 1999 (Act 25 of 1999).	1	Condition noted and will be adhered to for the duration of the project
18	No dumping of construction material is allowed within this buffer zone and no alteration or damage on these sites may occur.	1	All waste from the project is stored in waste bins

			provided at the site camp which is to be disposed of at a registered landfill site in Wolmaransstad when full.
19	If a human grave/burial is encountered during construction, the remains must be left as undisturbed as possible before the local police and SAHRA Burial Grounds and Graves Unit are informed. If the burial is deemed to be over 60 years old and no foul play is suspected, an emergency exhumation permit may be issued by SAHRA for an archaeologist to exhume the remains.	1	No grave/burial has been encountered during construction yet however should there be an encounter during construction the process in this condition will be followed.

#### 9. Recommendations

- Maintain good house keeping
- Ensure that there is no littering onsite but bring all waste to camp site for safe and proper disposal
- Waste bins to be clearly marked for the different type of waste disposed in it
- Ensure that drip trays are always placed underneath stationary vehicles on site
- Environmental incidents needs to be reported and recorded within 24hours
- Any incident that that affects graves and/or grave yard must be reported immediately

# 10. Conclusion

Overall the contractor is complying with the provided EMPr and SAHRA permit conditions.

Number of conditions			28		
Number of com	27				
Number	Number of non-				
compliances					
Number of N/A	1				
Results	99%				

Compliance for the month of February is rated as well compliant.

11. Photo plate

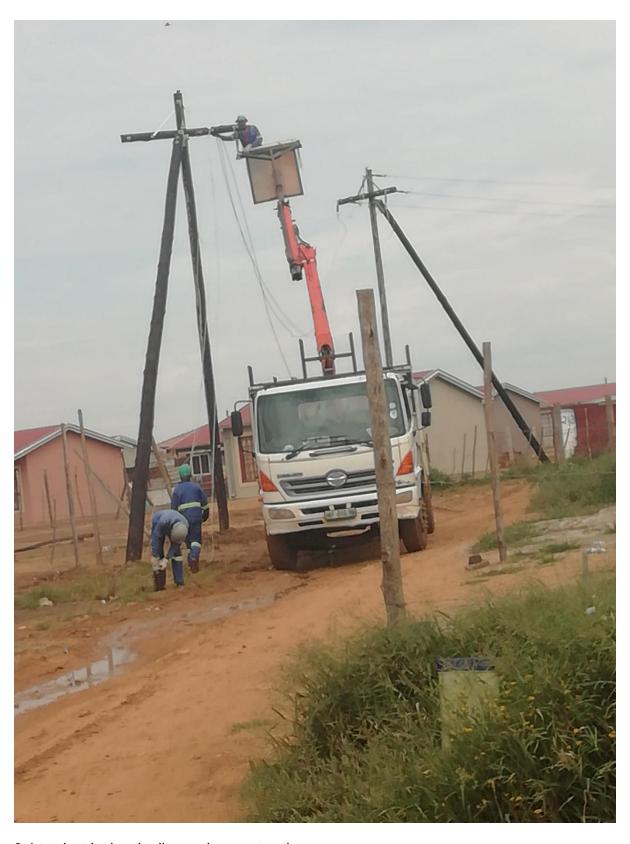
3.1 waste bins at a camp site for the project



3.2 Emergency assembly point at the camp site



3.3 The new line under construction street front, the blue line points to where the graveyard is behind the houses



3.4 truck stringing the line under construction



 $3.5\,\mathrm{The}$  houses between the constructed line and the graveyard. The red arrow points to where the graveyard is.