



**Ondangwa**

Town Council.

## Environmental Management Plan

<b>Name of Project</b>	<b>Environmental Management Plan for Ondangwa Waste Dumpsite</b>
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## 1 WHAT IS AN ENVIRONMENTAL MANAGEMENT PLAN (EMP)?

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An Environmental Management Plan (EMP), is being prepared as part of an Environmental Impact Assessment (EIA) report. It translates recommended mitigation and monitoring measures into specific actions that will be carried out by the proponent. Depending on particular requirements, the plan may be included in, or appended to, the EIA report or may be a separate document. It will form the basis for impact management during project construction and operation.

However, due to the nature of this project, the EIA won't be carried out only the EMP.

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## 2 WHAT ARE THE LEGAL IMPLICATIONS AND MY OBLIGATIONS UNDER THIS PLAN?

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This EMP with all its contents forms a part of the scoping report, will shall be submitted to the Directorate of Environmental Affairs in the Ministry of Environment and Tourism. The implementation of the EMP is required in terms of the Environmental Management Act of 2007. The MET will issue an environmental clearance certificate which places a person reviewed this EMP under a legal obligation to adhere to the recommendations in the EMP. The EMP, once approved, becomes a legally binding document and each role-player identified in the document is required to abide to the conditions stipulated in it.

### 2.1 Legal Requirements

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#### 2.1.1 The Public Health Act 36 of 1919 and subsequent amendments:

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This Act controls the existence nuisances such as litter that can cause a threat to the environment and public health.

#### 2.1.2 Pollution Control and Waste Management Bill:

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This bill aims to promote sustainable development and to prevent and regulate the discharge of pollutants into the environment. Once this bill is enacted it will make provision for the establishment of an appropriate framework for integrated pollution prevention and control.

#### 2.1.3 Environmental Management Act No.7 of 2007:

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One of the objectives of this Act as stated in Section 2 (i) is the promotion of waste reduction, re-use and recycling. The Act also promotes the polluter pay principle which states that whoever is responsible for the pollution of the environment must bear the responsibility and costs associated with the clean-up of the environment.

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#### 2.1.4 The Water Act No. 54 of 1956 and Water Resources and Management Act No.27 of 2007:

Both these Acts deals with the management of water resources and controls the pollution of both surface and underground water resources. These Acts thus control the indiscriminate dumping of waste in undesignated waste disposal sites to minimise the potential pollution threats to water resources.

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#### 2.1.5 Local Authorities Act 23 of 1992

Empowers local authorities to regulate the maintenance of services such as waste removal and disposal, and those of sewerage works and drainage systems.

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#### 2.1.6 Town Planning Scheme

Responsible for the control of disposal of refuse, rubble or hazardous substances that may pollute groundwater except at designated waste disposal sites

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### 3 THIS ENVIRONMENTAL MANAGEMENT PLAN

This EMP is created as a result of a directive from the Ministry of environment and Tourism, Directorate of Environmental Affairs (DEA). On 15 December 2016 the DEA requested that the Ondangwa Town Council should produce a detailed EMP for the dumpsite. This was done and the EMP was submitted on 13 January 2017 resulting in the approval of the EMP whereby the clearance certificate for Ondangwa Dumpsite was issued on 29 January 2018 . Then it was reviewed and issued again on 08 September 2020. Currently the Council is hereby requesting for the review of this EMP that is necessitated by the need to extend the clearance certificate to use the dumpsite for another 5 years while we are looking for a suitable site that the Council has been searching for. The dumpsite is in a good state and it can be used for more than 15 years. Therefore this EMP only covers the operation phase of the dumpsite.

This EMP formulates migratory measures that should be made biding to Ondangwa Town council and all contactors during the operation of the dumpsite as per approval from DEA. The EMP will ensure to protect the natural environment, social and socio economic environment during the operation phase of the dump site.

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### 4 BRIEF DUMPSITE LOCALITY

Ondangwa dumpsite is located on the south east of Ondangwa town, it has been operation for over 45 years. See map Figure 1: Locality of the Dump Site. The dump site is 1000 meters by 500 meters, covering an area of 50 hectares and the landscape is generally flat. The dominant soil type around the area is Cambic Arenosols and is characterised mostly by nearby "Oshanas" that are mostly having water during the rainy season, however there is little or no ground water. Frequent wind direction is north-east winds from the south-southwest.



Figure 1: Locality of the Dump Site

On the northern side of the dumpsite is a residential area, which is 500 meter from the dumpsite. The dumpsite is fully fenced off and guarded by the security 24/7. See annexure (E)

## 5 DUMP SITE ACTIVITIES

The Ondangwa Town dumpsite is cater for Ondangwa Town Council and Oniipa Town Council, it only caters for non-hazardous solid waste. Currently the dumpsite is used to dump the following solid waste,

- Garbage is mostly decomposable food waste;
- Rubbish is mostly dry material such as glass, paper, cloth, or wood.
- Building rubbles, scrap metals
- Garden Refuse and
- General waste from the hospitals

The dumpsite does not have facilities to cater for hazardous waste, thus hazardous waste are not allowed to be dumped at the dumpsite. Hazardous waste is waste that poses substantial or potential threats to public health or the environment. Hazardous waste here refers to waste such as , *Acids and alkalis, cyanide waste, heavy metal sludge's and waste containing appreciable proportions of fibrous*

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*asbestos , oily waste, paint and resin waste and organic chemical residues, Infectious waste such as diseased human/animal tissues, medical waste, laboratory waste and waste from manufacturing, Waste from the production of edible animal and vegetable oils, slaughter houses, tanneries and other animal and vegetable based products.*

There is Rent a drum and Wilco Recycling CC, companies that collecting recyclable materials in the Ondangwa dump site by sorting/removing recyclable materials in the dumpsite. Rent a Drum subcontracted three contracts on the site. Namely;

- Killy Kambonde contract
- Albertina Simon and
- Tresia Josua

There is no method implemented to mitigate the odour from the waste disposal site apart from the contracts that is sorting waste for recycling on the site.

## 5.1 Impact Assessment

This section of the report evaluates the possible negative impacts and mitigation of the proposed project, in the table below;

Table 1 Impact Assessment table

ACTIVITIES	POTENTIAL IMPACT	MITIGATION/ACTION	MONITORING /FREQUENCY	RESPONSIBILITY FOR IMPLEMENTATION
<b>WASTE MANAGEMENT</b>				
<b>General Waste Management</b>	Water pollution	No waste should be dumped or allowed to enter the water nearby streams "Oshanas".	Monitoring Daily	Contractor,
	Littering	The dumpsite site shall be kept in a clean and orderly state at all times.	Monitoring Daily	Contractor,
		Areas, Containers and Skips identified for the storage of general, recyclables wastes shall be clearly marked to indicate the intended purposes i.e., glass only.	Monitoring Daily	Contractor,
		Scrap metals, steel, and glass must be collected in separate waste skips and each container intended for identified recyclable waste must be clearly marked, i.e. scrap metals only		
	Excessive waste on Site	Introduce waste compaction methods	Monitoring weekly	Ondangwa Town Council/Contractor
		Implement different waste recycling at a larger scale		
	Air pollution, Adour originating from dump site	Covered dumpsite with a layer of soil at the end of each day.	Monitoring Daily	Contractor
<b>Waste composition,</b>	Unauthorized waste dumped at the site.	Dumpsite operator must ensure that a register is kept throughout the life of the facility of the quantities and characteristics of the waste deposited.	Monitoring Daily	Contractor/Ondangwa Town Council



ACTIVITIES	POTENTIAL IMPACT	MITIGATION/ACTION	MONITORING /FREQUENCY	RESPONSIBILITY FOR IMPLEMENTATION
<b>inventory and inspection</b>		<i>Demarcate the dumpsite into compartments that allow segregation of incompatible wastes, such as building rubbles, household waste, garden waste. etc.</i>	<i>Monitoring Daily</i>	<i>Ondangwa Town Council/Contractor</i>
		<i>Information on waste register must include the origin of waste, type of waste, date of delivery, identify of the producer or collector,</i>	<i>Monitoring quarterly</i>	<i>Ondangwa Town Council</i>
<b>Hazardous waste</b>	<i>Dumping hazardous waste</i>	<i>Hazardous waste is not allowed to be dumped on site</i>	<i>Monitoring Daily</i>	<i>Contractor</i>
<b>SITE MANAGEMENT</b>				
<b>Site control, Demarcation, Security, Access Control in Waste Storage areas</b>	<i>Unauthorized entry</i>	<i>The dumpsite is fenced off, and fence will be inspected regularly</i>	<i>Monitoring Daily</i>	<i>Ondangwa Town Council</i>
		<i>Waste storage areas shall be provided with signs and display boards that inform everyone entering the site of the demarcated waste storage areas.</i>		
		<i>All Waste Storage areas shall be adequately fenced in and secured to prevent any access of public members and unauthorized people.</i>		<i>Contractor</i>
		<i>There is a security guard 24/7 and at all the times to monitor all entrance on site, to direct people where they can dispose their waste and to avoid unauthorized entrance and destruction of the fence.</i>		
	<i>Pushing of refuse</i>	<i>Waste in the dumpsite is being pushed weekly with a Loader every Thursday.</i>	<i>Monitoring Weekly</i>	<i>Ondangwa Town Council</i>
<b>Storm Water Management</b>	<i>Contamination of water</i>	<i>The site should have adequate storm water drainage to avoid contamination of nearby water areas.</i>	<i>Monitoring Annually</i>	<i>Ondangwa Town Council</i>
		<i>Monitor the water pollution around the dumpsite, especially in rainy season when water is present.</i>		
<b>Personnel</b>	<i>Health risk to personal</i>	<i>All personal on site should wear protective clothing and mask all the time.</i>	<i>Monitoring Daily</i>	<i>Contractor</i>

ACTIVITIES	POTENTIAL IMPACT	MITIGATION/ACTION	MONITORING /FREQUENCY	RESPONSIBILITY FOR IMPLEMENTATION
<b>WASTE TRANSPORTATION MANAGEMENT</b>				
<b>Waste Transportation</b>	<i>Littering during transportation</i>	<p><i>The Contractor shall provide a standard first aid kit at the site office.</i></p> <p><i>All waste should by no means escape from the waste truck whilst in transit</i></p> <p><i>Any littering due to transportation should be removed immediately</i></p>	<i>During transportation</i>	<i>waste collector Contractor</i>
<b>Personnel</b>	<i>Health risk</i>	<i>All personnel working with the collection of waste should wear protective cloths, grooves and masks.</i>	<i>All the time</i>	<i>Contractor</i>

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## 6 CONCLUSION

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Ondangwa Town Council will ensure that waste removal contractor and the site management contractor should familiarize themselves with the requirements of this revised EMP and fully implement.

Parties responsible for transgression of this EMP will be held responsible for any rehabilitation that may need to be undertaken. Parties responsible for environmental degradation through irresponsible behaviour/negligence should receive penalties.

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**7 ANNEXURES**

See a letter for appeal for an extension of the Environmental Clearance Certificate and all necessary documents.