



ENVIRONMENTAL MANAGEMENT PLAN

OSHAKATI DESIGNATED DISPOSAL SITE



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DOCUMENT INFORMATION

PROJECT TITLE

RENEWAL OF ENVIRONMENTAL CLEARANCE CERTIFICATE FOR OSHAKATI DESIGNATED DISPOSAL SITE, OSHAKATI, OSHANA REGION.

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FOREWORD

The environmental performance for Oshakati Town Council on disposal site operational activities and status is presented in this report. The recommended activities steps entailed in this report lies within the suitability, acceptability and feasibility of the Council's situation and applicable requirements.

Overall, the performance progress documented herein accords to the approved recommendations of 2017 and 2019 environmental action plans for Oshakati Town Council.

INTRODUCTION

A summary report on the environmental performance is presented in this report. Following herein, progress made through continuous improvement towards achievement of recommended objectives for Environmental management plan is described.

LOCALITY AND SITE LAYOUT PLAN

The designated disposal site for Oshakati is located in the zoned Industry area in Othingo, Oshakati, Oshana region.

See Appendix 2 for locality and site layout plan.

APPLICABLE LEGISLATIONS

The below legal frameworks provide guidance to the operation of Oshakati Town disposal site.

| FRAMEWORK | Description |
|---|--|
| The Constitution of Republic of Namibia | <i>Actively Promote and maintain the welfare of all Namibians by adopting and promoting ecosystems and processes for present and future generations.</i> |
| Environmental Management Act No. 7 of 2007 | <i>Promote sustainable management of the environment and its natural resources and assessments.</i> |
| Environmental Impact Assessment Regulations | <i>Provide environmental management plan and listed activities, its implementation and continuous progress reporting.</i> |
| Water Act 54 of 1956 | <i>Provide sustainable water use of national water resources.</i> |
| Atmospheric Pollution Prevention Ordinance No. 11 of 1976 | <i>Provision for prevention and minimising atmospheric pollution.</i> |
| Hazardous Substance Ordinance No. 14 of 1974 | <i>Hazardous waste disposal and management</i> |
| Public Health Act 36 of 1919 | <i>Prevention of public health nuisances</i> |
| Oshakati Town Council Waste Management Policy | <i>Provide guidance for waste management strategy in Oshakati town.</i> |
| Oshakati Town Waste Management Regulations: Local Authority Act No. 250 of 1992 | <i>Provision for management of waste in Oshakati town</i> |

ENVIRONMENTAL MANAGEMENT PLAN: OBJECTIVE

The Environmental management plan provides for the description of the recommended processes for Oshakati Town Council and associates to maximum compliance and minimising threats on both the environment and human which may result from current waste disposal operations.

ENVIRONMENTAL PERFORMANCE PROGRESS

ENVIRONMENTAL MANAGEMENT PLAN IMPLEMENTATION:

ACTION: OSHAKATI TOWN COUNCIL TO ENSURE IMPLEMENTATION OF ENVIRONMENTAL MANAGEMENT PLAN

PROGRESS:

The process of environmental management plan implementation of the recommended action plans remains the responsibility of Oshakati Town Council management.

The Council has prioritised for environmental management plan compliance and considerations within its periodic ended strategic plans and the recent for 2020-2025 years for improved waste management services and development.

STAKEHOLDER ENGAGEMENT

ACTION: OSHAKATI TOWN COUNCIL TO ENSURE STAKEHOLDER ENGAGEMENT ON ENVIRONMENTAL MANAGEMENT PLAN

PROGRESS:

The acquisition of the Environmental Clearance Certification by Oshakati Town Council made provision for stakeholders' engagement on environmental management plan implementation activities progressions and developments. This step involved communicating the progressive action steps towards environmental management plan implementations to ensure stakeholder participation and custodianship for operational management and environmental management plan activity requirements.

Throughout, the Oshakati Town Council has involved and allowed for stakeholder engagement with the responsible user departments, enforcement units, disposal site users, waste removal contractors and voluntary waste recyclers onsite on the recommended operational activities and continuity of environmental management plan compliance.

Moreover, the engagement includes continuous improvement towards ensuring activity requirements.

SITE INFRASTRUCTURE

ACTION: OSHAKATI TOWN COUNCIL TO ENSURE AVAILABILITY OF SITE INFRASTRUCTURE FOR SITE OPERATION

PROGRESS:

During the period 2020-2022 developmental progress were made to the existing Oshakati Town Council site infrastructure as required per Councils environmental management plan recommendations.

In the current component phase of the required progressive performance steps, the Oshakati Town Council invested in developing, upgrading, and providing the following:

Disposal site control office

Oshakati Town Council acquired a new site office in Phase 2 of the disposal site upgrading and development. This office replaced the old office and had since been serving for entry control, site operational and management. Moreover, the office has been functioning as the assigned office for the site warden stationed at the disposal site. It consists of the weighbridge system control room, with sanitary facilities and storage area.

The office serves for reception into the disposal site and for attending enquiries of operations to all visitors providing disposal guide control and directives. Additionally, the office has an additional extension of a shade area for operating machinery onsite used for site maintenance as per the operational procedures.

Security site office

An office for a site security officer was also constructed and developed. The office provides security and safety patrolling inside the site and surrounding environment, including ensuring adherence to the provided site directives and instructions.



(a) Entry Control office



(b) Security office

Figure 1: Upgraded Oshakati disposal site offices

Weighbridge

As part of waste information system management and acquisition, Oshakati Town Council has acquired a weighbridge system. The development and installation of the weighbridge has since provided daily waste information from site users on the collected and generation. In addition, the weighbridge provides a database system for the collected data, vital for waste management and planning. Most significantly, the obtained waste information will form part of waste management reporting, including providing local waste management plans and performance.

Figure 2: Disposal site vehicle weighbridge



Site Signage

The site Environmental management plan make provision for signage requirements, hence their placement for control. Phase 2 of Oshakati Town Council’s disposal site involved acquiring signages for site control. A signage for entry control was acquired as part of site development and upgrading. The signage provides regulatory instructions and operating procedures to all site users. The upgraded entry control signage is presented in Figure 3.



With Phase 2 activity development, there shall be signage placement for various operations and disposal areas within the site as per the outlined site plan.

For current operations, the site office provides directives to disposal activities as per the waste classification.

Recycling infrastructure

As part of infrastructure development, the Oshakati Town Council management plan made provision for recycling stalls area. The current progress includes a recycling area segregated a site to allow for on-site recycling and the following Phase 3, the Council strategic plan budget prioritised to provide for recycling stalls instalments and development.

Figure 4: Recycling area



Site Fencing

As part of Phase 2 activities, a project component of removing the existing wire fencing and replacing it with a metal fencing for longevity and safety has started. As provided for infrastructure development and provision within the environmental plan, the project activity stage for site fencing began with the stage of fencing the front entry site and has been completed and continuing to Northwest, and South sides for final completion. It is envisaged that fencing the disposal site will provide public and environmental safety, whilst ensuring the prevention of unauthorised activities.

The ongoing site fencing work conducted in Phase 2 shown in Figure 5 below.



WASTE DISPOSAL AND SEGREGATION

Waste disposal continues to be monitored and directed. The segregation of waste forms part of site operational activities. Upon each disposal, there is directive to separate the waste at separate areas zones as per their waste classification. General wastes are disposed separately from the treated hazardous wastes and building rubbles. This is to maintain the site lifespan, including smoothen the process of recycling and minimising exposure. The destruction of special waste category items (counterfeits, confidential and condemned items) are controlled for minimal environmental damage. The hazardous wastes have a separate area zone with prepared pit for co-disposal and coverage with inert materials (demolishing and construction waste) and sand.

Other waste materials such as e-wastes are not permitted to be disposed on site, but rather referred further to recycling companies. At current, e-wastes in town are at most collected by Nami-Green Recyclers, an approved company for e-waste collection in Namibia. When in rare and insignificant cases other hazardous industrial wastes are encountered, they are referred further to landfill sites with lined cells for disposal.

SITE MAINTENANCE

The Oshakati Town Council have assigned a priority focus to ensuring continuous maintenance of site operations. This is particularly the case with daily waste coverage and backfilling. During the period 2020-2023, the Council has appointed a service provider for site levelling, layering, compaction and covering of landfill waste with a Bulldozer. This on-going process

ensures prevention of likely occurring nuisances such as littering of site and surrounding area, including prolonging the site lifespan.

Figure 6: Maintenance machinery (bulldozer) currently used onsite.



COMPLIANCE MONITORING AND ENFORMCEMENT

The Oshakati Town Council environmental management plan prioritises for manpower in disciples of technical, supervision and managing key performance areas of the required activities for the plan. With regards to manpower and key performance, the Council has a disposal site guard for overseeing and upkeeping operations at the disposal site. This includes ensuring adherence to compliance and disposal directives of routine site inspections, site orders, waste information recovery and inventories including liaising with management on the daily updates and performance. In addition, there is also a site security personnel serving for site patrolling and maintaining of site security directives.

Also, the Council also provide contractual manual labourers to perform the activities of site litterpicking and cleaning of the surrounding site environment.

The rest of the waste management section also conduct periodic site assessments on weekly basis to assess compliance to the environmental management plan and provide continuous improvement when necessary.

MEASURING AND RECORD KEEPING

The monitoring and provision of waste management records has a significant contribution to waste management planning. The Council recently acquired a weighbridge system database to advance the previous method of measuring and keeping records manually with an automated database system. This serves vital for tracking and data quality control purposes. The attained information derived from the weighbridge are recorded further in the system database for record keeping and inventories. These records shall be periodically reviewed for inventories and assessments. Figure 7: The current data capturing and record keeping systems.



| Weighbridge Ticket Slip | | Print Date: 11-Nov-22 | Doc Date: 11-11-22 |
|-----------------------------|---|-----------------------------|---------------------|
| Weighbridge Name | Oshakati Municipal Landfill Weighbridge | Weighbridge Type | Road |
| Company Name | Oshakati Town Council | | |
| TICKET NUMBER | OML00000000265 | Ticket Date | 2022/11/11 11:42:00 |
| Registration Number | N1218005H | | |
| Transporter Details | | | |
| Transporter Code | TUNO TRADING C | User-Defined Fields | |
| Transporter Name | | | |
| Driver Name 1st Weigh | | | |
| Driver Name 2nd Weigh | | | |
| Destination | | | |
| Vehicle Capacity | 0 kg | | |
| Vehicle Tare Weight | 0 kg | | |
| ERP Document Details | | | |
| Document Type | Purchasing | Supplier Load Weight | 0 kg |
| Document Order Weight | 0 kg | Supplier Grade | |
| | | Delivery Note | |
| | | Moisture Content | 0.0 |
| First Weigh Details | | Second Weigh Details | |
| Load Type | Fully Loaded | Load Type | Empty |
| Weight | 6 680 kg | Weight | 5 660 kg |
| Date Time | 2022/11/11 11:22:58 | Date Time | 2022/11/11 11:42:54 |
| Operator | 001 | Operator | 001 |
| | | Weight Calculations | |
| | | NETT Weight | 1 020 kg |
| | | Product Weight | 1 020 kg |
| | | Total Difference | 1 020 kg |
| | | Total Cost | \$0.00 |
| Document Number | Document Weight (kg) | Customer Number | Customer Name |
| Total Pallet Weight | 0 kg | Pallet Count | 0 |
| DRIVER | <i>Mark Benjamin</i> | OPERATOR | <i>Rodrick</i> |
| CELL NO | <i>001-5103-156</i> | DATE | <i>11/11/22</i> |

SITE CLOSURE AND AFTERCARE

As part of disposal site rehabilitation, there shall be continuous monitoring of any likely disturbance and damage resulting from current operations and during the developmental phases of site upgrading. As Council continue investing in adhering to the management plan, commitments towards upkeeping the requirements serves priority. However, in the unlikely event of site closure due to the current ongoing and planned developments, adherence to management recommendations shall be highly maintained to allow for site rehabilitation and sustainability.

PLANNED ACTIVITIES AND RECOMMENDATIONS:

The development of Oshakati Town Council Disposal site is ongoing and being conducted in progressive phases. As accordance to the strategic plan of Oshakati Town and feasibility of Council's position.

The following are future activities and recommendations earmarked for Phase 3 of actionable progressive steps as per the preceding environmental management plans.

- The upgrading of Site fencing to be completed.
- Recycling stalls to be constructed to promote optimum onsite recycling.
- Development and construction of waste cells for hazardous waste management.
- Recycling of segregated wastes to continue for environmental sustainability and site lifespan extension.
- Daily record keeping to be maintained continuously for waste information reporting and future waste planning.
- Daily site maintenance (cleaning, waste levelling and compaction, infrastructure replacement), to be sustained for ongoing site operation.
- Supervision and monitoring of adherence to environmental management plan including implementation of corrective action and continual improvement to be an on-going process.
- Any perceived site closure should allow for environmental monitoring and site rehabilitation.

CONCLUSION

As part of ensuring adherence to effective waste management, Oshakati Town Council shall ensure continuous progression in fulfilling the required actionable steps. This report has presented insights on the progress made by Oshakati Town Council towards meeting the targets and requirements of the environmental management plan. The progressive milestone presented herein confirms to continuous commitment to waste management custodianship by Oshakati Town Council.
