

Waste Management Plan (WMP)



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CONSOLIDATED WASTE MANAGEMENT PLAN (WMP)

Project: Biovac – Project Kilimanjaro, Cape Town

Applicability: Construction, commissioning, and operational phases

1. Purpose

This Waste Management Plan establishes procedures for the **safe, compliant, and environmentally responsible management of all waste streams** generated on site.

It aims to:

- Protect workers, the public, and the environment
 - Ensure compliance with **South African legislation**
 - Provide **traceability and recordkeeping**
 - Promote **waste minimisation and continuous improvement**
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2. Scope

Applies to:

- Construction activities (principal contractor, subcontractors)
 - Facility operations (biological, pharmaceutical, engineering activities)
 - All personnel, visitors, and service providers on site
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3. Roles & Responsibilities

3.1 Principal Contractor / Construction Manager

- Appoint a **responsible person for site-wide waste control**
- Develop a **Waste Management Method Statement** in the H&S Plan
- Ensure waste removal to **licensed disposal facilities only**
- Maintain records (waste manifests, disposal certificates)

3.2 EHS Manager

- Overall custodian of the Waste Management Plan
- Regulatory liaison and auditing

3.3 Management & Supervisors

- Ensure implementation of segregation and handling procedures
- Provide resources and enforce compliance

3.4 Employees & Contractors

- Follow segregation, PPE, and reporting requirements
 - Participate in training and incident reporting
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4. Waste Streams & Classification

The following waste categories apply across construction and operations:

4.1 General Waste

- Packaging (plastic, cardboard, wrapping)
- Domestic waste, food waste
- Builders' rubble

4.2 Hazardous Waste

- Chemical waste (toxic, corrosive, reactive)
- Pharmaceutical waste (expired or rejected materials)
- Biological/infectious waste

4.3 Specialised Waste

- Medical waste (handled by licensed private contractor)
- E-waste (electronics, heavy metals)
- Engineering waste (oils, solvents, rags)

4.4 Recycling Streams

- Paper, plastics, metals, packaging
- Printing packaging materials (PPM)

5. Waste Minimisation Strategy

- Design processes to reduce waste generation
- Implement **inventory control (FIFO)** to avoid expiry
- Use **reusable systems where feasible**
- Apply **segregation at source**
- Implement **recovery/recycling programs (e.g. solvents)**

6. Waste Segregation & Storage

6.1 Segregation Principles

- Segregate waste **at point of generation**
- Prevent mixing of hazardous and general waste
- Maintain clearly labelled containers

6.2 Containers & Handling

- General waste → skips / bins
- Biological waste → biohazard bags and containers
- Sharps → puncture-proof containers
- Chemical waste → sealed, labelled containers (Winchester bottles for liquids)
- Flammable liquids → dedicated cabinets

6.3 Construction Site Requirements

- Provide **adequate bins and skips at all times**
- No accumulation of hazardous or combustible waste
- Domestic waste bins:
 - Located at eating areas
 - Closed with lids
 - Emptied daily (to prevent vermin)

6.4 Storage Areas

- Designated, secure, ventilated
 - Bunded where liquids are stored
 - Spill kits and signage present
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7. Waste Collection & Transport

- Regular removal of all waste streams
 - Use **only licensed waste transporters** for hazardous waste
 - Maintain:
 - Waste manifests
 - Disposal certificates
 - Contractor licenses
 - All waste to be transported to:
 - Municipal sites (general waste)
 - Licensed hazardous waste facilities
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8. Treatment & Disposal

8.1 Hazardous Waste Treatment

- Biological waste → autoclaving / sterilisation
- Liquid infectious waste → chemical disinfection
- Chemical waste → licensed incineration or treatment facility

8.2 General Waste

- Collected via skips
- Disposed of at municipal landfill sites

8.3 Recycling

- On-site sorting and storage
 - Off-site recycling by approved vendors
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9. Wastewater Management

- Segregate domestic and industrial wastewater
 - Treat wastewater prior to discharge
 - Apply:
 - Source reduction
 - Pre-treatment
 - Biological treatment processes
 - Domestic wastewater → municipal sewer
 - Industrial wastewater:
 - Pre-treatment required
 - Biohazard streams require **decontamination before discharge**
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10. Incident & Spill Management

- Maintain a **spill response plan**
 - Provide spill kits at all waste handling points
 - All incidents must:
 - Be reported
 - Investigated
 - Have corrective actions implemented
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11. Training & Awareness

- Induction training for all personnel
- Annual refresher training
- Topics include:
 - Waste segregation
 - PPE
 - Spill response

- Safe handling procedures
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12. Monitoring, Auditing & Recordkeeping

Maintain records for:

- Waste manifests and disposal certificates
- Training records
- Incident reports
- Contractor compliance documents

Construction-specific controls:

- Record all skip removals and landfill proof
- Maintain documentation in H&S file

Retention:

- 5–10 years (or as per legal/GMP requirements)
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13. Compliance & Legislation

This plan aligns with:

- National Environmental Management Act (NEMA)
 - National Environmental Management: Waste Act
 - Occupational Health & Safety Act
 - Construction Regulations
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14. Continuous Improvement

- Conduct periodic audits
- Review waste generation trends
- Implement reduction targets
- Improve recycling and recovery initiatives