## RISK ASSESSMENT IN TERMS OF REGULATION 8 OF THE WASTE EXCLUSION REGULATIONS

| | (For official use only) |
|---|---|
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Risk Assessment for an application for exclusion of waste stream or portion of waste stream in terms of the National Environmental Management: Waste Act, 2008(Act No.59 of 2008), as amended.

**Kindly note that:**

1. This form is current as of 01 April 2021. It is the responsibility of the applicant to ascertain whether subsequent versions of the form have been published or produced by the competent authority.

2. The information must be typed within the spaces provided in the form. The sizes of the spaces provided are not necessarily indicative of the amount of information to be provided. Spaces are provided in tabular format and will extend automatically when each space is filled with typing.

3. Incomplete forms (including information as required in the application form may be returned to the applicant for revision and the inclusion of additional information.

4. Unless protected by law, all information filled in on this application will become public information on receipt by the competent authority. Any interested and affected party should be provided with the information contained in this application on request, during any stage of the application process.

| BACKGROUND INFORMATION | |
|---|---|
| APPLICANT | **Mpact Operations (Pty) Ltd Paper, Felixton Mill** |
| CONTACT PERSON | **Maggie Odayar** |
| NAME | Mpact Paper Felixton |
| ADDRESS | Felixton Industrial Area, Grantham Properties, Felixton |
| E-MAIL ADDRESS | modayar@mpact.co.za |
| TELEPHONE | 035 791 6000 |
| CELL PHONE | 084 505 0038 |

| WASTE GENERATING FACILITIY OR FACILITIES | | | | | | |
|---|---|---|---|---|---|---|
| PHYSICAL ADDRESS OF FACILITY OR FACILITIES | Felixton Industrial Area<br>Grantham Properties, Felixton | | | | | |
| GPS CO-ORDINATES AT CORNERS OF WASTE GENERATING FACILITY OR FACILITIES | **LATITUDE** | | | **LONGITUDE** | | |
| | 28° | 50′ | 4.28″S | 31° | 53′ | 46.10″E |
| | 28° | 50′ | 13.0″S | 31° | 54′ | 2.14″E |
| | 28° | 50′ | 12.16″S | 31° | 54′ | 12.43″E |
| | 28° | 50′ | 19.16″S | 31° | 54′ | 9.18″E |
| | 28° | 50′ | 22.02″S | 31° | 53′ | 54.35″E |
| | 28° | 50′ | 17.11″S | 31° | 53′ | 51.96″E |
| | 28° | 50′ | 17.46″S | 31° | 53′ | 35.32″E |
| WASTE STREAM OR PORTION OF A WASTE STREAM TO BE EXCLUDED FROM THE DEFINITION OF WASTE | Biomass (Paper Mill Sludge) | | | | | |
| BENEFICIAL USE/S | Soil Ameliorant<br>Landfill Cover Material<br>Raw material in multi fuel boiler | | | | | |

| WASTE GENERATING PROCESS | | |
|---|---|---|
| DETAILED DESCRIPTION OF WASTE GENERATING PROCESS[1] | Recycled waste paper is pulped in order to break the paper into fibres. It goes through a series of cleaning and screening processes to remove contaminants, unusable fibre, fines, ash and ink. Water recovered during these processes are sent to the water recovery and wastewater treatment plant. Sludge is generated during the wastewater treatment process where solids and water are separated. It is then further dewatered using screens and presses and finally it is conveyed into storage bunkers. | |
| PRODUCTION PROCESS FLOW CHART ATTACHED | YES X | NO |
| WASTE CLASSIFICATION | HAZARDOUS | GENERAL X |
| IF HAZARDOUS LIST THE HAZARDS OF THE WASTE | | |

[1] A process flow chart must be attached with this form for the process description

## RISK ASSESSMENT WITHOUT MITIGATION

| Activity | Risk Description | Environmental Receptors | Impact | Assessment of the Risk | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | | Probability | Magnitude | Duration | Scale | Significance |
| Storage | Fire risk | Air | Deterioration of local air quality | 2 | 4 | 1 | 1 | 12 |
| | Leachate from stockpiled material during rainfall | Soil | Soil contamination | 2 | 2 | 2 | 1 | 10 |
| | | Surface water | Contaminated stormwater transported to surface water | 2 | 4 | 3 | 2 | 18 |
| | | Groundwater | Percolation into groundwater | 2 | 4 | 3 | 2 | 18 |
| | Airborne material | Air | Deterioration of local air quality | 2 | 4 | 1 | 2 | 14 |
| Transportation | Air borne material | Air | Deterioration of local air quality | 2 | 4 | 1 | 2 | 14 |
| | Accidental spillage into the environment | Soil | Soil contamination | 2 | 2 | 2 | 1 | 10 |
| | | Surface water | Contaminated stormwater transported to surface water | 2 | 4 | 3 | 2 | 18 |
| | | Groundwater | Percolation into groundwater | 2 | 4 | 3 | 2 | 18 |

| Activity | Risk Description | Environmental Receptors | Impact | Assessment of the Risk | | | | |
|---|---|---|---|---|---|---|---|---|
| Processing | Air borne material | Air | Deterioration of local air quality | 2 | 4 | 1 | 2 | 14 |
| | Accidental spillage into the environment | Soil | Soil contamination | 2 | 4 | 1 | 2 | 14 |
| | | Surface water | Contaminated stormwater transported to surface water | 2 | 4 | 3 | 2 | 18 |
| | | Groundwater | Percolation into groundwater | 2 | 4 | 3 | 2 | 18 |
| Land Application | Concentration of contaminants due to incorrect application rates | Soil | Soil contamination | 2 | 2 | 2 | 1 | 10 |
| | | Surface water | Contamination transported to surface water | 2 | 4 | 3 | 2 | 18 |
| | | Groundwater | Percolation into groundwater | 2 | 4 | 3 | 2 | 18 |
| Use as landfill cover material | Leachate generation during rainfall | Soil | Soil contamination | 2 | 2 | 2 | 1 | 10 |
| | | Surface water | Contamination transported to surface water | 2 | 4 | 3 | 2 | 18 |
| | | Groundwater | Percolation into groundwater | 2 | 4 | 3 | 2 | 18 |

The following factors and criteria must be used to assess the impacts of the activities:

| CRITERIA | |
|---|---|
| **Magnitude (Severity)** | **Duration** |
| 10 – Very high | 5 – Permanent (longer than 10 years) |
| 8 – High | 4 – Long term (5 – 10 years) |
| 6 – Moderate | 3 – Medium term (12 months to 5 years) |
| 4 - Low | 2 – Short term (< 12 months) |
| 2 - Minor | 1 – Immediate |
| **Scale** | **Probability (Likelihood)** |
| 5 – International | 5 – Definite |
| 4 – National | 4 – Highly probable |
| 3 – Regional | 3 – Medium probability |
| 2 – Local | 2 – Low probability |
| 1 – Site only | 1 – Improbably |
| 0 – None | 0 - None |

**Magnitude**
Measures the size of the impact

**Duration**
Duration refers to the lifetime of the impact i.e. how long it will last

**Scale**
The scale refers to the extent of the impact

**Probability**
The probability refers to the chance of the impact to occur. The potential impact could be most likely to occur, unlikely, etc.

**Assessment of Significance of Impact**

Significance rating of the potential impact illustrates the importance of the impact itself. The size of the area affected by pollution may be extremely high but the significance of this effect is dependent on the concentration or level of pollution in that area. In order to determine the significance of an impact, the following method should be used:

Significance (S) = (Magnitude + Duration + Scale) x Probability

The values of S must then be categorised as follows:

| RATING | | DESCRIPTION |
|---|---|---|
| SP > 60 | High significance | An impact which could influence the decision about whether or to proceed with the activities regardless of any possible mitigation |
| SP 30 - 60 | Moderate significance | An impact or benefit which is sufficiently important to require management and which could have an influence on the decision unless it is mitigated |
| SP < 30 | Low significance | Impacts with little real effect and which will not have an influence on or require modification of the activities |
| + | Positive impact | An impact that is likely to result in a positive consequence/effect |

I, Mr L.B. van Dyk (the Applicant) hereby declare that I have read the completed Risk Assessment form and hereby confirm that the information is, to the best of my knowledge, true and correct

Furthermore, I declare that I am fully aware of my responsibilities in terms of the Waste Exclusion Regulations, and that failure to comply with these Regulations may constitute an offence in terms of the National Environmental Management: Waste Act, 2008 (Act 59 of 2008).

Signature of the applicant[2]/ Signature on behalf of the applicant:

Mr Louis Bosman van Dyk
Name of Applicant:

Mill Manager
Designation

11/9/2023
Date:

[2] If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.