forestry, fisheries & the environment

Department:
Forestry, Fisheries and the Environment
REPUBLIC OF SOUTH AFRICA

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

	(For official use only)
File Reference Number:	12/9/11
NEAS Reference Number:	
Date Received:	

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.

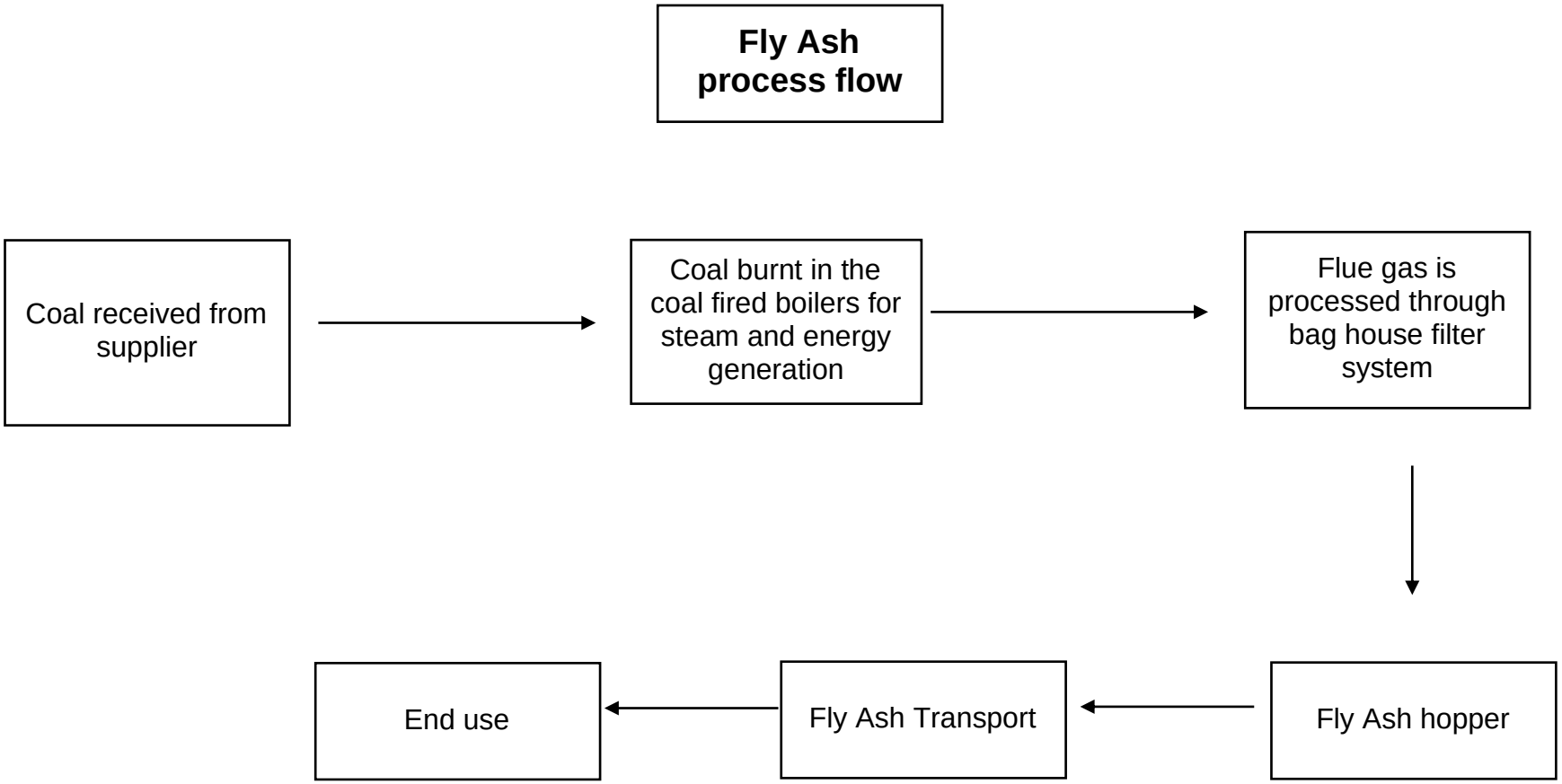
BACKGROUND INFORMATION	
APPLICANT	Sappi Southern Africa Limited - Tugela Mill
CONTACT PERSON	SHEQ Manager
NAME	Kerisha Govender
ADDRESS	1 Old Main Road, Mandeni
E-MAIL ADDRESS	kerisha.govender@sappi.com
TELEPHONE	032 456 1456
CELL PHONE	071 381 1252

WASTE GENERATING FACILITIY OR FACILITIES						
PHYSICAL ADDRESS OF FACILITY OR FACILITIES	1 Old Main Road, Mandeni					
GPS CO-ORDINATES AT CORNERS OF WASTE GENERATING FACILITY OR FACILITIES	**LATITUDE**			**LONGITUDE**		
	29	9	12.49	31	24	26.88
	29	8	57.43	31	24	30.50
	29	8	58.00	31	24	12.34
	29	9	16.05	31	24	5.28
WASTE STREAM OR PORTION OF A WASTE STREAM TO BE EXCLUDED FROM THE DEFINITION OF WASTE	Boiler fly ash					
BENEFICIAL USE/S	Cement manufacturing Brick making and Block making Landfill capping and/or cover material Fertiliser Water Treatment Construction Industry					

WASTE GENERATING PROCESS		
DETAILED DESCRIPTION OF WASTE GENERATING PROCESS[1]	Coal fired Boilers are used to generate steam and electricity for pulp and paper production. Ash is generated through the combustion process. Fly ash is extracted from the flue gas using a bag house filtering system. The fly ash is fed into a hopper for storage before transportation.	
PRODUCTION PROCESS FLOW CHART ATTACHED	YES	[redacted]
WASTE CLASSIFICATION	[redacted]	GENERAL
IF HAZARDOUS LIST THE HAZARDS OF THE WASTE		

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

Fly Ash process flow



RISK ASSESSEMENT WITHOUT MITIGATION

Activity	Risk Description	Environmental receptors	Impact	Assessment of the risk				
				Probability	Magnitude	Duration	Scale	Significance
Storage	Accidental spillage into the environment	Soil	Soil contamination	3	4	3	1	24
		Surface water	Contaminated stormwater transported to surface water	2	4	3	2	18
		Groundwater	Percolation into groundwater	2	4	3	2	18
		Soil	Soil contamination	3	4	3	1	24

Activity	Risk Description	Environmental receptors	Impact	Assessment of the risk				
				Probability	Magnitude	Duration	Scale	Significance
	Leachate from stockpiled material during rainfall	Surface water	Contaminated stormwater transported to surface water	2	4	3	2	18
		Groundwater	Percolation into groundwater	2	4	3	2	18
	Windblown Ash	Air	Deterioration of local air quality	3	4	2	2	24
Transportation	Air borne Ash	Air	Deterioration of local air quality	3	4	2	2	24
	Accidental spillage into the environment	Soil	Soil contamination	3	4	3	2	24
		Surface water	Contaminated stormwater transported to surface water	2	4	3	2	18
		Groundwater	Percolation into groundwater	3	4	3	2	24
Manufacturing	Windblown Ash	Air	Deterioration of local air quality	3	4	2	2	24

Activity	Risk Description	Environmental receptors	Impact	Assessment of the risk				
				Probability	Magnitude	Duration	Scale	Significance
		Visual	Visual impact from windblown waste	3	4	2	2	24
	Dust generation due to processing	Air	Deterioration of local air quality	3	4	2	2	24
	Spillage from processing	Soil	Soil contamination	3	4	3	1	24
		Surface water	Contaminated stormwater 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, Kerisha Govender (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: Waset Act, 2008 (Act 59 of 2008).

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

Kerisha Govender
Name of Applicant:

SHEQ Manager
Designation

05/07/2023.
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.