



**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.

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BACKGROUND INFORMATION	
APPLICANT	Twinsaver Group, Kliprivier Plant
CONTACT PERSON	Tony Hulme
NAME	
ADDRESS	Old Vereeniging Road, Alberton, Gauteng, 1449
E-MAIL ADDRESS	Anthony.Hulme@twinsaver.co.za
TELEPHONE	+27 (12) 318 2058
CELL PHONE	+27 83 578 4249

WASTE GENERATING FACILITY OR FACILITIES						
PHYSICAL ADDRESS OF FACILITY OR FACILITIES	Old Vereeniging road, Alberton, Gauteng, 1449					
GPS CO-ORDINATES AT CORNERS OF WASTE GENERATING FACILITY OR FACILITIES	LATITUDE			LONGITUDE		
	26°	24'	36"	28°	04'	47"
	26	24	18	28	04	05
	26	24	17	28	05	00
	26	24	29	28	05	06
WASTE STREAM OR PORTION OF A WASTE STREAM TO BE EXCLUDED FROM THE DEFINITION OF WASTE	Boiler ash					
BENEFICIAL USE/S	Brick making, Block making, Landfill cover material					

WASTE GENERATING PROCESS	
DETAILED DESCRIPTION OF WASTE GENERATING PROCESS <sup>1</sup>	Coal is fed into the coal fired boilers where it is combusted. The boilers produce steam for the manufacture of snack products. The combusted coal produces ash, known as boiler ash. The ash is collected in a wet ash trough and is delivered to a skip. Fly ash in the flue gas is collected in a grit arrestor and bag filter and added to the wet ash stream. The collection of this wet ash is done by a truck designed for skip removal. This eliminates significant spillage and air airborne contamination at the site it is generated at and during transportation of the ash to the brick/block maker.
PRODUCTION PROCESS FLOW CHART ATTACHED	YES <u>X</u> NO
WASTE CLASSIFICATION	HAZARDOUS GENERAL <u>X</u>
IF HAZARDOUS LIST THE HAZARDS OF THE WASTE	

<sup>1</sup> A process flow chart must be attached with this form for the process description

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**RISK ASSESSMENT WITHOUT MITIGATION**

ACTIVITY	RISK DESCRIPTION	ENVIRONMENTAL RECEPTORS	ASSESSMENT OF RISK					SIGNIFICANCE
			Impact	Probability	Magnitude	Duration	Scale	
Ash Storage	Windblown ash	Air	Deterioration of local air quality	2	4	2	1	14
	Leachate from stockpile material	Ground water	Percolation into ground water	1	4	3	2	9
	Spillage	Surface water	Contamination transported into surface water	2	4	1	2	14
	Spillage	Soil	Soil contamination	2	4	1	1	12
Ash Transport	Airborne ash	Air	Deterioration of local air quality	2	4	1	2	14
	Accidental spillage	Surface water	Contamination transported into surface water	2	4	2	2	16
		Soil	Soil contamination	2	4	2	2	16
Use as landfill cover material	Leachate generation during rainfall	Soil	Soil contamination	3	4	3	1	24

**RISK ASSESSMENT WITHOUT MITIGATION**

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ACTIVITY	RISK DESCRIPTION	ENVIRONMENTAL RECEPTORS	ASSESSMENT OF RISK					SIGNIFICANCE
			Impact	Probability	Magnitude	Duration	Scale	
Use as landfill cover material	Windblown ash	Air	Deterioration of local air quality	2	2	2	2	12
	Leachate generation during rainfall	Surface water	Contamination transported into surface water	2	4	3	2	18
	Leachate generation during rainfall	Ground water	Percolation into ground water	2	4	3	2	18

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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

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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

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I, ANTHONY HULMÉ (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).

Anthony Hulmé

Signature of the applicant<sup>2</sup>/ Signature on behalf of the applicant:

ANTHONY HULMÉ, TRANSARX GROUP.

Name of Applicant:

GENERAL MANAGER

Designation

03 - 09 - 2021

Date:

<sup>2</sup> If the applicant is a juristic person, a signature on behalf of the applicant is required as well as proof of such authority.

ANTH