



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

**RISK MANAGEMENT PLAN IN TERMS OF REGULATION 10 OF
WASTE EXCLUSION REGULATIONS**

APPLICANT	AEL Mining Limited		
SOURCE (S) OF WASTE	Waste coal ash from ash dams		
WASTE TO BE BENEFICIATED	Waste coal ash		
BENEFICIAL USE/S	Brick making & road construction		
MSDS ATTACHED IF HAZARDOUS	YES	NO	Waste classification is provided in Section 3.1.5 of the Report.
WASTE GENERATING FACILITY	See the Report Section 3.1. Boiler 1 & 2, ammonia plant 4 and fly ash boiler generate coal as that is stored in the 6 ash dams.		
PHYSICAL ADDRESS	Modderfontein, Johannesburg		
GPS CO-ORDINATES OF WASTE GENERATING			

Point	Ash Dam 1	Ash Dam 2	Ash Dam 3	Ash Dam 4	Ash Dam 5	Ash Dam 6
1	26° 5'18.63"S 28°10'53.45"E	26° 5'22.80"S 28°10'51.02"E	26° 5'28.07"S 28°10'48.69"E	26° 5'39.60"S 28°10'57.80"E	26° 5'48.21"S 28°10'48.03"E	26° 4'27.62"S 28°10'45.77"E
2	26° 5'20.01"S 28°10'52.41"E	26° 5'24.81"S 28°10'48.71"E	26° 5'33.64"S 28°10'48.30"E	26° 5'44.36"S 28°10'52.62"E	26° 5'59.81"S 28°10'40.44"E	26° 4'37.06"S 28°10'41.32"E
3	26° 5'21.57"S 28°10'51.77"E	26° 5'26.91"S 28°10'48.76"E	26° 5'35.14"S 28°10'52.93"E	26° 5'54.64"S 28°10'57.93"E	26° 6'5.88"S 28°10'41.32"E	26° 4'55.29"S 28°10'55.55"E
4	26° 5'22.63"S 28°10'52.22"E	26° 5'29.93"S 28°10'55.75"E	26° 5'33.02"S 28°10'55.20"E	26° 5'54.69"S 28°11'1.94"E	26° 6'2.57"S 28°10'52.29"E	26° 4'43.20"S 28°11'3.08"E
5	26° 5'25.40"S 28°10'58.88"E	26° 5'24.81"S 28°10'56.65"E	26° 5'31.13"S 28°10'55.87"E	26° 5'46.72"S 28°11'4.56"E	26° 5'59.32"S 28°10'57.03"E	26° 4'29.18"S 28°10'54.64"E
6	26° 5'20.20"S 28°10'59.13"E	26° 5'23.12"S 28°10'54.41"E	26° 5'27.96"S 28°10'52.55"E	26° 5'40.01"S 28°11'1.51"E	26° 5'48.29"S 28°10'49.71"E	

FACILITY (EG. 60° 29' 30" Latitude; 34° 20' 15" Longitude)	1 Platimum Drive, Longmeadow Business Estate		
POSTAL ADDRESS			
CONTACT PERSON	Mome Stiglingh		
TELEPHONE	011 606 0232	CELL:	082 543 1176
EMAIL	mome.stiglingh@aeciworld.com	FAX:	

RISK MANAGEMENT PLAN

Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to carry out the action)
See the report Table 14. Attached again hereto but amended to align with this table.			

DECLARATION

I, Morne Stiglingh hereby declare that I have read the completed a Risk Management 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).

Applicant (Full names) Morne Stiglingh
Designation EXECUTIVE GLOBAL SUPPORT SERVICES
Signature 
Date 17/6/2020 Place MOOSERFONTEIN

FOR OFFICE USE ONLY

Date Received				
Decision Taken	Authorised		Not authorised (provide reason)	
Reference Number				

GPS Co-Ordinates of Waste Generating Facility

Point	Ash Dam 1	Ash Dam 2	Ash Dam 3	Ash Dam 4	Ash Dam 5	Ash Dam 6
1	26° 5'18.63"S 28°10'53.45"E	26° 5'22.80"S 28°10'51.02"E	26° 5'28.07"S 28°10'48.69"E	26° 5'39.60"S 28°10'57.80"E	26° 5'48.21"S 28°10'48.03"E	26° 4'27.62"S 28°10'45.77"E
2	26° 5'20.01"S 28°10'52.41"E	26° 5'24.81"S 28°10'48.71"E	26° 5'33.64"S 28°10'48.30"E	26° 5'44.36"S 28°10'52.62"E	26° 5'59.81"S 28°10'40.44"E	26° 4'37.06"S 28°10'41.32"E
3	26° 5'21.57"S 28°10'51.77"E	26° 5'26.91"S 28°10'48.76"E	26° 5'35.14"S 28°10'52.93"E	26° 5'54.64"S 28°10'57.93"E	26° 6'5.88"S 28°10'41.32"E	26° 4'55.29"S 28°10'55.55"E
4	26° 5'22.63"S 28°10'52.22"E	26° 5'29.93"S 28°10'55.75"E	26° 5'33.02"S 28°10'55.20"E	26° 5'54.69"S 28°11'1.94"E	26° 6'2.57"S 28°10'52.29"E	26° 4'43.20"S 28°11'3.08"E
5	26° 5'25.40"S 28°10'58.88"E	26° 5'24.81"S 28°10'56.65"E	26° 5'31.13"S 28°10'55.87"E	26° 5'46.72"S 28°11'4.56"E	26° 5'59.32"S 28°10'57.03"E	26° 4'29.18"S 28°10'54.64"E
6	26° 5'20.20"S 28°10'59.13"E	26° 5'23.12"S 28°10'54.41"E	26° 5'27.96"S 28°10'52.55"E	26° 5'40.01"S 28°11'1.51"E	26° 5'48.29"S 28°10'49.71"E	-

Risk Management Plan

Table 14: Risk management plan

Activity	Risk Description	Action(s) to minimise / manage the risk	Responsibility (Who is responsible to carry out the action)
Reclamation of coal ash.	Smouldering coal ash.	Thermal survey of the ash dams, which are being reclaimed, after each external fire.	AEL
	Wind-blown dust.	Periodic wetting of exposed coal ash and roads, particularly prior to dry and windy conditions.	End-user
		Workers to wear appropriate PPE (e.g. coveralls, goggles, and dusk mask) when working with or near coal ash.	End-user
Transport	Wind-blown dust and spillages.	Tarpaulins are used on the vehicles to cover the coal ash.	End user
		Wetting of coal ash prior to transporting it to the end user's site.	End user
		Vehicles are regularly checked for roadworthiness, with maintenance and servicing of vehicles as required.	End user
Storage	Storage of coal ash on unlined areas without bunding	Coal ash to be temporarily stored on lined area with bunding	End user
		Coal ash storage areas to be located away from nearby people and surface water bodies.	End user
	Spillage of coal ash onto unlined areas.	Maintain buffer area between stockpiles and edge of lined areas.	End user
		Stormwater drainage around the lined areas.	End user

Activity	Risk Description	Action(s) to minimise / manage the risk	Responsibility (Who is responsible to carry out the action)
	Storage of coal ash in insufficiently ventilated areas.	Coal ash storage areas must be sufficiently ventilated.	End user
		Workers to wear appropriate PPE (e.g. coveralls, goggles, and dusk mask) when working with or near coal ash.	End-user
	Wind-blown dust from coal ash stockpiles.	Periodic wetting of coal ash stockpiles, particularly prior to dry and windy conditions. Alternatively, coal ash stockpiles to be covered using a tarpaulin.	End-user
Production of bricks and road laying using coal ash.	Wind-blown dust and spillages.	Wetting of coal ash prior to handling.	End-user
	Secondary waste generation.	Provide appropriate storage containers for secondary waste generated.	End-user
		Dispose of secondary waste generated at licensed waste disposal facility.	End-user
Closure of AEL's ash dams and the end-user's sites	Improper closure of AEL's ash dams and the end-user's sites.	Develop and implement a proper plan in accordance with the relevant legislation for closure of AEL's ash dams and the end-user's sites.	AEL and End-user