




environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

APPLICANT	Anglo American Platinum– Rustenburg Platinum Mines Limited
SOURCE(S) OF WASTE	Slag generated in the Smelter by the pyro-metallurgical processing, of PGM Concentrates from a variety of Anglo American Platinum Concentrators
WASTE TO BE BENEFICIATED	Slag contained in the waste facility located at the Polokwane Metallurgical Complex
BENEFICIAL USE/S	Dust suppression on unsurfaced areas
	Abrasive for pneumatic air blasting
	<ul style="list-style-type: none"> • Mining materials <ul style="list-style-type: none"> ○ Rock Support (replacement of wood packs) ○ Insulation ○ Thin skin liners (rigid and flexible)
	<ul style="list-style-type: none"> • Building materials <ul style="list-style-type: none"> ○ Bricks (light and heavy) ○ Roofing (insulated or plain) ○ Walling (hollow core and insulated) ○ Castable insulation slabs ○ Castable /machinable profiles ○ Aggregate in standard building products ○ Light building products
	<ul style="list-style-type: none"> • Environmental <ul style="list-style-type: none"> ○ Cement foam for thermal or acoustic insulation ○ Thermal insulation
	Road aggregate, surfacing and underburden
	Construction fill
	Backfill

	Mineral fibres		
	Rock wool		
MSDS ATTACHED IF HAZARDOUS	YES 		
WASTE GENERATING FACILITY	Polokwane Metallurgical Complex		
PHYSICAL ADDRESS	Palmietfontein Farm		
	Burgersfort Road		
	Polokwane		
GPS CO-ORDINATES OF WASTE GENERATING FACILITY (EG. 60° 29' 30" Latitude; 34° 20' 15" Longitude)	NUMBER OF CORNERS	LONGITUDE	LATITUDE
	1	29°27' 43.07"E	24°1' 57.08" S
	2	29°28' 8.72"E	24°1' 57.00" S
	3	29°28' 8.72"E	24°2' 1.69" S
	4	29°28' 6.58"E	24°2' 5.26" S
	5	29°28' 8.70"E	24°2' 7.03" S
	6	29°28' 8.75"E	24°2' 9.42" S
	7	29°28' 2.81"E	24°2' 15.84" S
	8	29°27' 58.78"E	24°2' 17.21" S
	9	29°27' 58.01"E	24°2' 15.02" S
10	29°27' 43.17"E	24°2' 15.10" S	
POSTAL ADDRESS	Private Bag X4654, Polokwane		
CONTACT PERSON	Phillimon Mukumbe		
TELEPHONE		CELL:	082 338 1126

EMAIL	phillimonpatson.muk mbe@angloamerican.c om	FAX:	
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RISK MANAGEMENT PLAN

Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to carry out the action)
Deterioration of workers health if the appropriate Personal Protective Equipment (dust mask, overall and eye protection) is not utilised when working with Slag	Deterioration of workers health if the appropriate Personal Protective Equipment is not utilised when working with Slag	<p>Access to the site to be limited only to authorised personnel</p> <p>Workers to utilise all required PPE to limit dermal exposure and risks to eyes as specified in the SDS when potentially exposed to slag</p>	Receiving site.
Transportation between generator and users, generating dust	Other road users and communities along the transport route may experience a deterioration of health if repeatedly exposed for a sufficiently long period	Slag transportation is to occur with vehicles equipped with covers with no tears or significant deterioration. Covers must be secured around the perimeter to reduce the potential air contact with slag transported	Receiving sites transport contractor
Raw material storage at site of reuse	Slag is not appropriately stored, and runoff managed with the result that sediments wash from the stockpile onto adjacent soils and into adjacent water courses	<p>Slag to be stored on a low permeability base capable of limiting infiltration into the underlying soils.</p> <p>Storage area to be equipped with storm water control mechanisms to contain runoff as per statutory requirements</p>	Receiving site

Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to carry out the action)
Manufacturing using slag	Slag particulates actuated during manufacturing processes using slag, which then come into dermal contact or contact with eyes, with a subsequent deterioration in workers' health	<p>Access to the site to be limited only to authorised personnel</p> <p>Workers to utilise all required PPE as specified in the SDS when potentially exposed to slag</p>	Receiving site
Storage of slag at users premise potentially generating leachate during rainfall	<p>Although the leach testing undertaken on slag indicates that the leachable fractions are below the Leachate Concentration Threshold 1 of the Norms and Standards, mobilisation of low concentrations of salts and metals during rainfall may accumulate in the soils underlying the storage site</p> <p>Although the leach testing undertaken on slag indicates that the leachable fractions are below the Leachate Concentration Threshold 1 of the Norms and Standards, mobilisation of low concentrations of salts and metals during rainfall may migrate into the aquifer below the storage site</p>	Slag to be stored on a low permeability base capable of limiting infiltration into the underlying soils.	Receiving site
	Although the leach testing undertaken on slag indicates that the leachable fractions are below the Leachate Concentration	Storage area to be equipped with storm water control mechanisms to	Receiving site


Activity	Risk Description	Action(s) to minimise/ manage the risk	Responsibility (Who is responsible to carry out the action)
	Threshold 1 of the Norms and Standards, mobilisation of low concentrations of salts and metals during rainfall into runoff that is then discharged to an adjacent water course may increase salt load of the water course	contain runoff as per statutory requirements	

DECLARATION

I, GORDON LESLIE SMITH. hereby declare that I have read the completed 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) ANGLO AMERICAN PLATINUM -
LUSTENBURG PLATINUM MINES LTD.
Designation EXECUTIVE: TECHNICAL

Signature  G. SMITH.
Date 21 AUGUST 2018 Place JOHANNESBURG

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

