



environmental affairs

Department:
Environmental Affairs
REPUBLIC OF SOUTH AFRICA

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

APPLICANT	Silicon Smelters (Pty) Ltd – Rand Carbide
SOURCE (S) OF WASTE	Remaining “sand” after reprocessing of waste to remove metals, recyclables etc.
WASTE TO BE BENEFICIATED	
BENEFICIAL USE/S	Use 1: Construction of berm (21 600m ³ / 18 000tons) Location: Neighbouring property to east (Witbank Technical High School) with permission from property owner. Purpose: Screen surrounding landowners (to north and north east) from visual and noise impacts.
	Use 2: Construction of soccer field for school (28 000m ³ / 23 333tons) Location: Witbank Technical High School - neighbour to east Purpose: Social contribution to community – will provide material, construction equipment and labour.
	Use 3: Material will be sold as aggregate of different sizes to the building industry (±1million tons). Location: Building sites in the region. Purpose: Address requirement for building aggregate

MSDS ATTACHED IF HAZARDOUS	YES	NO	Classification attached	
WASTE GENERATING FACILITY	Historically: Silicon Smelters (Pty) Ltd - Rand Carbide Currently: Reprocessing plant			
PHYSICAL ADDRESS	Portion 101 of the farm Joubertsrust 310JS, Voortrekker (Middelburg) Road, eMalahleni			
GPS ORDINATES WASTE GENERATING FACILITY (EG. 29° 30" Latitude; 20' 15" Longitude)	CO-OF	25° 51' 47.25" South	29° 13' 46.51" East	
POSTAL ADDRESS	P.O. Box 214			
	eMalahleni (Witbank)			
	1035			
CONTACT PERSON	Ms Kerry Beamish			
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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)
<p>Construction phase: Construction of berm and soccer field – movement and placement of material</p>	<p>Exposure to dust during movement of material and disturbances to areas</p>	<p>Moderate significance: The following measures will be implemented:</p> <ul style="list-style-type: none"> • Water spraying: Dust suppression during construction phase and allow vegetation to establish and grow. • Cover berm with indigenous vegetation (grass and shrubs) for aesthetic value and to prevent dust and erosion. • Cover soccer field with topsoil layer and grass. 	<p>Silicon Smelters (Pty) Ltd – Rand Carbide Environmental section Ms Kerry Beamish</p>
<p>Safety</p>		<p>Low significance:</p> <ul style="list-style-type: none"> • Material will be moved through a gate between Rand Carbide and the school, no movement on public roads. • Areas for placement of material are located outside current operational areas of the school. • Areas will be demarcated and barricaded to prevent access. 	<p>Silicon Smelters (Pty) Ltd – Rand Carbide Environmental section Ms Kerry Beamish</p>

<p>Operational phase: Operational berm and soccer field</p>	<p>Health - inhalation or ingestion of material</p>	<p>Low significance: The berm will be covered with indigenous vegetation (grass and shrubs) to bind material thereby preventing erosion and dust generation (inhalation and ingestion). Berm will be maintained by Rand Carbide (plant additional vegetation and water to enhance vegetative growth and replace dead species). The soccer field will be covered with a topsoil layer and grass to bind material thereby preventing erosion, dust generation (inhalation) and ingestion by players. Soccer field will be maintained by school.</p>	<p>Silicon Smelters (Pty) Ltd – Rand Carbide Environmental section Ms Kerry Beamish</p>
<p>Contamination of runoff and / or groundwater through the leaching of contaminants</p>	<p>Contamination of runoff and / or groundwater through the leaching of contaminants</p>	<p>Low significance: No further actions are required to minimise the risk due to the following:</p> <ul style="list-style-type: none"> • The area is supplied with municipal water and therefore no users make use of surface of groundwater resources for water supply. • The leach test done as part of the waste classification (GNR 634 of 23 August 2013) indicated that no constituent or contaminant of concern leached at concentrations above that of LCTi (water soluble concentrations) or normal soil in the area (also refer soil leach tests and GNR 331 of 2 May 2014). Also refer to geochemical investigation attached. 	<p>Silicon Smelters (Pty) Ltd – Rand Carbide Environmental section Ms Kerry Beamish</p>

DECLARATION

I, **Kerry Beamish**, 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) **Ms Kerry Beamish**

Designation **Environmental Manager**

Signature _____



Date **2018-09-14**

Place **eMalahleni**

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