

ENVIRONMENTAL IMPACT STATEMENT

Taking the assessment of potential impacts into account, herewith please receive an environmental impact statement that summarises the impact that the activity may have on the environment after the management and mitigation of impacts have been considered, with specific reference to types of impact, duration of impacts, likelihood of potential impacts occurring and the significance of impacts.

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EXPANSION ACTIVITIES – SITE ESTABLISHMENT PHASE

<u>TYPE OF IMPACT</u>	<u>DURATION</u>	<u>LIKELIHOOD</u>	<u>SIGNIFICANCE</u>
<u>Stripping and Stockpiling of Topsoil and/or Overburden:</u> <ul style="list-style-type: none"> ❖ Visual intrusion because of the expansion activities. ❖ Dust nuisance due to the movement of the soil. ❖ Noise nuisance caused by earthmoving machinery. ❖ Potential contamination of footprint area and surface runoff because of hydrocarbon spillages. ❖ Loss of vegetation cover due to the extraction of sand ❖ Potential impact on faunal species. ❖ Infestation of the topsoil heaps and mining area with invader plant species. ❖ Potential increase in runoff from denuded areas and associated accelerated erosion. 	Site establishment and Operational phase (±10 years)	<p align="center">Definite</p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</p> <p align="center">Definite</p> <p align="center">Low Possibility</p> <p align="center">Possible</p> <p align="center">Low Possibility</p>	<p align="center">Low</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low-Medium Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p>

OPERATIONAL AND EXPANSION ACTIVITIES – OPERATIONAL PHASE

<u>TYPE OF IMPACT</u>	<u>DURATION</u>	<u>LIKELIHOOD</u>	<u>SIGNIFICANCE</u>
<u>Drilling and Blasting:</u> <ul style="list-style-type: none"> ❖ Alteration of the existing topography. ❖ Health and safety risk posed by blasting activities. ❖ Dust nuisance caused by blasting activities. ❖ Noise nuisance caused by blasting activities. ❖ Flyrock falling beyond the mining area. 	Operational phase (±10 years)	<p align="center">Definite</p> <p align="center">Low Possibility</p> <p align="center">Possible</p> <p align="center">Definite</p> <p align="center">Low Possibility</p>	<p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Medium Concern</p> <p align="center">Medium Concern</p> <p align="center">Low Concern</p>

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<p><u>Excavation, Processing, Loading and Hauling of Aggregate:</u></p> <ul style="list-style-type: none"> ❖ Alteration of the existing topography. ❖ Dust nuisance caused by earthmoving machinery. ❖ Noise nuisance because of the mining activities. ❖ Unsafe working environment for employees. ❖ Soil contamination from hydrocarbon spills and/or littering. ❖ Flooding of the excavation due to heavy rain ❖ Runoff from mining area potentially impacting the two drainage lines and/or surface water. ❖ Infestation of the mining area with invader plant species. ❖ Overloading of trucks having an impact on the public roads. ❖ Continued employment opportunities (+) ❖ Continued provision of building material to the region (+) ❖ Continued social support to local community (+) <p><u>Cumulative Impacts:</u></p> <ul style="list-style-type: none"> ❖ Flooding of the quarry excavation upon closure poses a safety risk to people and livestock. ❖ Impact on downstream users should mining affect the water quality of the Elands Spruit and large Brak River systems. ❖ Impact on overall species and ecosystem diversity. ❖ Impacts to ecological connectivity and/or ecological disturbance impacts. ❖ Cumulative visual impact when the Quarry footprint is expanded. 		<p>Definite</p> <p>Possible</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Possible</p> <p>Low Possibility</p> <p>Possible</p> <p>Low Possibility</p> <p>Definite</p> <p>Definite</p> <p>Definite</p> <p>Definite</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Definite</p>	<p>Low-Medium Concern</p> <p>Low Concern</p> <p>Low-Medium Concern</p> <p>Low Concern</p> <p>Low Concern</p> <p>Low Concern</p> <p>Low-Medium Concern</p> <p>Low Concern</p> <p>Low Concern</p> <p>High (+)</p> <p>High (+)</p> <p>High (+)</p> <p>Low-Medium Concern</p> <p>Low Concern</p> <p>Low Concern</p> <p>Low Concern</p> <p>Low-Medium Concern</p>
<u>OPERATIONAL AND EXPANSION ACTIVITIES – DECOMMISSIONING PHASE</u>			
<u>TYPE OF IMPACT</u>	<u>DURATION</u>	<u>LIKELIHOOD</u>	<u>SIGNIFICANCE</u>
<u>Sloping and Landscaping During Rehabilitation:</u>		Low Possibility	Low Concern

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<ul style="list-style-type: none"> ❖ Health and safety risk posed by unrehabilitated quarry excavations. ❖ Erosion of returned topsoil after rehabilitation. ❖ Infestation of the reinstated area with invader plant species. ❖ Potential impact associated with litter left at the mining area. 	<p align="center">Decommissioning Phase (±4 months)</p>	<p align="center">Low Possibility Possible</p> <p align="center">Low Possibility</p>	<p align="center">Low Concern Low Concern</p> <p align="center">Low Concern</p>
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