

ENVIRONMENTAL IMPACT STATEMENT

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

<u>ENVIRONMENTAL IMPACT STATEMENT</u>			
SITE ALTERNATIVE 1			
<u>TYPE OF IMPACT</u>	<u>DURATION</u>	<u>LIKELIHOOD</u>	<u>SIGNIFICANCE</u>
<p><u>Site Establishment & Stripping and Stockpiling of Topsoil:</u></p> <ul style="list-style-type: none"> • Alteration of the agricultural sense of place • Loss of agricultural land for duration of mining. • Visual intrusion as a result of site establishment. • Loss of Leipoldtville Sand Fynbos to access the mineral. • Potential impact on the CBA's and ESA's. • Loss of topsoil and fertility during mining and stockpiling. • Infestation of the topsoil heaps and mining area with invader plant species. • Potential impact on fauna within the footprint area. • Dust nuisance as a result of the mining activities. • Noise nuisance as a result of the mining activities. 	<p>Duration of site establishment phase (<1 month)</p>	<p>Low Possibility Definite Possible</p> <p>Low Possibility</p> <p>Low Possibility Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p> <p>Low Possibility</p>	<p>Medium-Low Concern Medium-High Concern Low-Medium Concern</p> <p>Low Concern</p> <p>Low Concern Low Concern</p> <p>Low Concern</p> <p>Low Concern</p> <p>Low Concern</p> <p>Low Concern</p>
<p><u>Loading and Hauling of Sand from the Mining Footprint:</u></p> <ul style="list-style-type: none"> • Creating steep slopes and uneven surfaces. • Infestation of the topsoil heaps and mining area with invader plant species. • Soil contamination from hydrocarbon spills. • Disturbance to fauna within the footprint area. 	<p>Duration of operational phase (5 years maximum)</p>	<p><u>LIKELIHOOD</u></p> <p>Low Possibility Low Possibility</p> <p>Low Possibility Low Possibility Low Possibility</p>	<p><u>SIGNIFICANCE</u></p> <p>Low Concern Low Concern</p> <p>Low Concern Low Concern Low Concern</p>

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<ul style="list-style-type: none"> • Dust nuisance as a result of the mining activities. • Noise nuisance as a result of the mining activities. • Potential impact associated with littering at the mining area. • Deterioration of the access road to the mining area. • Potential impact on areas/infrastructure of heritage or cultural concern. • Increase in clay content and resultant water holding capacity of the soil (Positive Impact). • Working opportunities to 3 local residents (Positive Impact). • Cumulative Impact: The operation of two sand mines on the same property. 		<p align="center">Low Possibility</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">Definite</p> <p align="center">Definite</p>	<p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Medium (+)</p> <p align="center">Medium-High (+)</p> <p align="center">Medium Concern</p>
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<p><u>Sloping and Landscaping upon Closure of the Mining Area:</u></p> <ul style="list-style-type: none"> • Erosion of returned topsoil after rehabilitation. • Infestation of the reinstated area with invader plant species. • Dust nuisance as a result of the decommissioning activities. • Noise nuisance as a result of the decommissioning activities. • Potential impact associated with litter left at the mining area. • Return of the mining area to agricultural use by the landowner (Positive Impact). 	<p align="center">Duration of decommissioning phase (±2 months)</p>	<p align="center"><u>LIKELIHOOD</u></p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</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"><u>SIGNIFICANCE</u></p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Medium-High (+)</p>
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SITE ALTERNATIVE 2

<p align="center"><u>TYPE OF IMPACT</u></p> <p><u>Site Establishment & Stripping and Stockpiling of Topsoil:</u></p> <ul style="list-style-type: none"> • Alteration of the agricultural sense of place • Loss of agricultural land for duration of mining. • Visual intrusion as a result of site establishment. 	<p align="center">Duration of site establishment phase (<1 month)</p>	<p align="center"><u>LIKELIHOOD</u></p> <p align="center">Low Possibility</p> <p align="center">Definite</p> <p align="center">Possible</p>	<p align="center"><u>SIGNIFICANCE</u></p> <p align="center">Low-Medium Concern</p> <p align="center">Medium-High Concern</p> <p align="center">Low-Medium Concern</p>
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ENVIRONMENTAL IMPACT STATEMENT

<ul style="list-style-type: none"> • Loss of Leipoldtville Sand Fynbos to access the mineral. • Potential impact on the CBA's and ESA's. • Loss of topsoil and fertility during mining and stockpiling. • Infestation of the topsoil heaps and mining area with invader plant species. • Potential impact on fauna within the footprint area. • Dust nuisance as a result of the mining activities. • Noise nuisance as a result of the mining activities. 		<p align="center">Definite</p> <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">Low Possibility</p> <p align="center">Low Possibility</p>	<p align="center">High Concern</p> <p align="center">High Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p>
<p><u>Loading and Hauling of Sand from the Mining Footprint:</u></p> <ul style="list-style-type: none"> • Creating steep slopes and uneven surfaces. • Infestation of the topsoil heaps and mining area with invader plant species. • Soil contamination from hydrocarbon spills. • Disturbance to fauna within the footprint area. • Dust nuisance as a result of the mining activities. • Noise nuisance as a result of the mining activities. • Potential impact associated with littering at the mining area. • Deterioration of the access road to the mining area. • Potential impact on areas/infrastructure of heritage or cultural concern. • Working opportunities to 3 local residents (Positive Impact). • Cumulative Impact: The operation of two sand mines on the same property. 	<p align="center">Duration of operational phase</p> <p align="center">(5 years maximum)</p>	<p align="center"><u>LIKELIHOOD</u></p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</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">Definite</p>	<p align="center"><u>SIGNIFICANCE</u></p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Medium-High (+)</p> <p align="center">Medium Concern</p>
<p><u>Sloping and Landscaping upon Closure of the Mining Area:</u></p> <ul style="list-style-type: none"> • Erosion of returned topsoil after rehabilitation. • Infestation of the reinstated area with invader plant species. 	<p align="center">Duration of decommissioning phase</p> <p align="center">(±2 months)</p>	<p align="center"><u>LIKELIHOOD</u></p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</p> <p align="center">Low Possibility</p>	<p align="center"><u>SIGNIFICANCE</u></p> <p align="center">Low Concern</p> <p align="center">Low Concern</p> <p align="center">Low Concern</p>

ENVIRONMENTAL IMPACT STATEMENT

<ul style="list-style-type: none">• Dust nuisance as a result of the decommissioning activities.• Noise nuisance as a result of the decommissioning activities.• Potential impact associated with litter left at the mining area.• Return of the mining area to agricultural use by the landowner (Positive Impact).		<p style="text-align: center;">Low Possibility</p> <p style="text-align: center;">Low Possibility</p> <p style="text-align: center;">Definite</p>	<p style="text-align: center;">Low Concern</p> <p style="text-align: center;">Low Concern</p> <p style="text-align: center;">Medium-High (+)</p>
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