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.

SITE ALTERNATIVE 1					
TYPE OF IMPACT		<u>Duration</u>	Likelihood	Significance	
	cablishment & Infrastructure pment: Alteration of the agricultural sense of	Duration of site establishment phase	Definite	Medium Concern	
	place; Loss of agricultural land for duration	(±1 month)	Definite	Medium Concern	
•	of mining; Visual intrusion as a result of site establishment;		Low Possibility	Low Concern	
	Potential impact on fauna within the footprint area;		Low Possibility	Low Concern	
	Potential impact on archaeological artefacts;		Low Possibility	Low Concern	
	Potential impact on areas of palaeontological concerns.		Low Possibility	Low- Concern	
	Dust nuisance as a result of the disturbance of soil during site establishment		Low Possibility	Low- Concern	
	Noise nuisance generated by earthmoving machinery		Low Possibility	Low- Concern	

ENVIRONMENTAL IMPACT STATEMENT					
•	Potential contamination of footprint		Low Possibility	Low- Medium	
	area and surface runoff as a result of			Concern	
	hydrocarbon spillages during site				
	establishment		Low Possibility	Low- Concern	
	Potential contamination of water		Low Possibility		
	resources during site establishment				
	Potential contamination of			Low- Concern	
	environment due to improper waste		Low Possibility	Low Consern	
	management during site				
	establishment				
	Infestation of the topsoil heaps and		Low Possibility	Low- Concern	
	mining area with weeds or invader				
	plant species				
	New job opportunities as a result of		Definite (+)	High (+)	
	the mining operation (Positive Impact)				
Operat	ional Phase: Drilling and Blasting,	Duration of	Likelihood	Significance	
	nd wire cutting, loading and hauling of	operational phase	LIKEIIIIOOU	<u>Significance</u>	
the mir	ned material from site:	(5 years maximum)	s maximum)		
	Health and safety risk posed by	(*)	Low Possibility	Low Concern	
	drilling and blasting activities;				
	Dust nuisance caused by drilling and		Low Possibility	Low Concern	
	blasting activities;				
	Noise nuisance as a result of drilling		Low Possibility	Low-Medium Concern	
	and blasting;				
	Dust nuisance due to excavation and		Possible	Low-Medium Concern	
	from diamond wire cutting, loading				
	and hauling of the mined material				
	from site;				
	Noise nuisance as a result of the				
	diamond wire cutting, loading and		Low Possibility	Low-Medium Concern	

ENVIRONMENTAL IMPACT STATEMENT				
	hauling of the mined material from			
	site;			
	Unsafe working environment for		Low Possibility	Low-Medium Concern
	employees;			
	Soil contamination from		Low Possibility	Low-Medium Concern
	hydrocarbon spills and/or littering;			
	Potential impact on areas of		Low Possibility	Low Concern
	palaeontological concern;			
	Facilitation of erosion due to mining		Low Possibility	Low-Medium Concern
	activities;			
	sing, stockpiling and transporting of	Duration of	<u>Likelihood</u>	<u>Significance</u>
materi	al:	operational phase		
	Dust nuisance generated at the	(5 years maximum)	Low Possibility	Low Concern
	processing plant;			
	Noise nuisance stemming from		Low Possibility	Low Concern
	operation of the processing plant;		LOW FOSSIBILITY	LOW COILCEIN
	Potential contamination of			
	environment due to improper waste		Low Possibility	Low – Medium Concern
	management;			
	Overloading of trucks impacting road		Low Possibility	Low - Medium Concern
	infrastructure;			
	Degradation of the access road;		Low Possibility	Low - Medium
				Concern
Cumula	ative Impacts:	Duration of	Likelihood	<u>Significance</u>
<u>Samuli</u>	Impact the broad-scale ecological	operational phase	Low Possibility	Low Concern
	processes.	(5 years maximum)		
	Impact on existing infrastructure as a		Low Possibility	Low Concern
2200	direct result of the mining operation.			

ENVIRONMENTAL IMPACT STATEMENT				
Sloping and Landscaping during Rehabilitation:	Duration of decommissioning	<u>Likelihood</u>	Significance	
Safety risk posed by un-sloped areas;	phase	Possible	Medium Concern	
Erosion of returned topsoil after rehabilitation;	(±1 month)	Low Possibility	Low - Medium	
Infestation of the reinstated areas by weeds and invader plant species;		Low Possibility	Low - Medium Concern	
Potential impact associated with litter/waste left at the mining area.		Low Possibility	Low Concern	
Potential impact associated with litter/waste left at the mining area		Low Possibility	Low - Medium	
Potential contamination of water resources during rehabilitation		Low Possibility	Concern Low - Medium	
 Potential contamination of environment due to improper waste management 		Low Possibility	Concern Low - Medium Concern	
Potential impact on local fauna due to disturbance and loss of available habitat during rehabilitation		Low Possibility	Low - Medium Concern	
Return of the mining area to agricultural use upon closure (Positive Impact)		Definite (+)	Medium-High (+)	