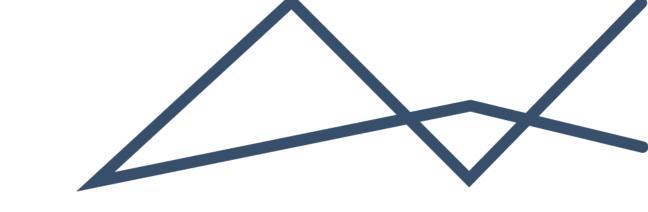


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IMPACT ASSESSMENT METHODOLOGY

BLACK MOUNTAIN MINING: WITPUTS POSPECTING RIGHTS PROJECT, NORTHERN CAPE





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SUMMARY DATA

Project	Witputs Prospecting Right Application	
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Appendix 1: Impact Significance Rating Table



1 INTRODUCTION

The impact significance rating methodology, as provided by EIMS, is guided by the requirements of the NEMA EIA Regulations 2014 (as amended). The broad approach to the significance rating methodology is to determine the environmental risk (ER) by considering the consequence (C) of each impact (comprising Nature, Extent, Duration, Magnitude, and Reversibility) and relate this to the probability/ likelihood (P) of the impact occurring. This determines the environmental risk. In addition, other factors, including cumulative impacts, public concern, and potential for irreplaceable loss of resources, are used to determine a prioritisation factor (PF) which is applied to the ER to determine the overall significance (S). The impact assessment will be applied to all identified alternatives. Where possible, mitigation measures will be recommended for impacts identified.

1.1 DETERMINTATION OF ENVIRONMENTAL RISK

The significance (S) of an impact is determined by applying a prioritisation factor (PF) to the environmental risk (ER). The environmental risk is dependent on the consequence (C) of the particular impact and the probability (P) of the impact occurring. Consequence is determined through the consideration of the Nature (N), Extent (E), Duration (D), Magnitude (M), and reversibility (R) applicable to the specific impact.

For the purpose of this methodology the consequence of the impact is represented by:

$$C = \frac{(E+D+M+R)*N}{4}$$

Each individual aspect in the determination of the consequence is represented by a rating scale as defined in Table 1 below.

Table 1: Criteria for Determining Impact Consequence

Aspect	Score	Definition		
Nature	- 1	Likely to result in a negative/ detrimental impact		
Nature	+1	Likely to result in a positive/ beneficial impact		
	1	Activity (i.e. limited to the area applicable to the specific activity)		
	2	Site (i.e. within the development property boundary),		
Extent	3	Local (i.e. the area within 5 km of the site),		
	4	Regional (i.e. extends between 5 and 50 km from the site		
	5	Provincial / National (i.e. extends beyond 50 km from the site)		
1 Immediate (<1 year)		Immediate (<1 year)		
Duration	2	Short term (1-5 years),		
Duration	3	Medium term (6-15 years),		
4		Long term (the impact will cease after the operational life span of the project),		



Aspect	Score	Definition			
	5	Permanent (no mitigation measure of natural process will reduce the impact after construction).			
	1	Minor (where the impact affects the environment in such a way that natural, cultural and social functions and processes are not affected),			
	2	Low (where the impact affects the environment in such a way that natural, cultural and social functions and processes are slightly affected),			
Magnitude/ Intensity	3	Moderate (where the affected environment is altered but natural, cultural and social functions and processes continue albeit in a modified way),			
	4	High (where natural, cultural or social functions or processes are altered to the extent that it will temporarily cease), or			
	5	Very high / don't know (where natural, cultural or social functions or processes are altered to the extent that it will permanently cease).			
	1	Impact is reversible without any time and cost.			
	2	Impact is reversible without incurring significant time and cost.			
Reversibility	3	Impact is reversible only by incurring significant time and cost.			
	4	Impact is reversible only by incurring prohibitively high time and cost.			
	5	Irreversible Impact			

Once the C has been determined the ER is determined in accordance with the standard risk assessment relationship by multiplying the C and the P. Probability is rated/scored as per Table 2.



Table 2: Probability Scoring

	1	Improbable (the possibility of the impact materialising is very low as a result of design, historic experience, or implementation of adequate corrective actions; <25%),
Probability	2	Low probability (there is a possibility that the impact will occur; >25% and <50%),
Prob	3	Medium probability (the impact may occur; >50% and <75%),
	4	High probability (it is most likely that the impact will occur- > 75% probability), or
	5	Definite (the impact will occur),

The result is a qualitative representation of relative ER associated with the impact. ER is therefore calculated as follows:

ER= C x P

Table 3: Determination of Environmental Risk

	5	5	10	15	20	25
	4	4	8	12	16	20
nce	3	3	6	9	12	15
Conseduence	2	2	4	6	8	10
Cons	1	1	2	3	4	5
J		1	2	3	4	5
	Probability					

The outcome of the environmental risk assessment will result in a range of scores, ranging from 1 through to 25. These ER scores are then grouped into respective classes as described in Table 4.

Table 4: Significance Classes

	Environmental Risk Score			
Value	Description			
< 9	Low (i.e. where this impact is unlikely to be a significant environmental risk).			
≥9 - <17	Medium (i.e. where the impact could have a significant environmental risk),			
≥17	High (i.e. where the impact will have a significant environmental risk).			

The impact ER will be determined for each impact without relevant management and mitigation measures (<u>premitigation</u>), as well as post implementation of relevant management and mitigation measures (<u>post-mitigation</u>). This allows for a prediction in the degree to which the impact can be managed/mitigated.



1.2 IMPACT PRIORITISATION

Further to the assessment criteria presented in the section above, it is necessary to assess each potentially significant impact in terms of:

- · Cumulative impacts; and
- The degree to which the impact may cause irreplaceable loss of resources.

In addition it is important that the public opinion and sentiment regarding a prospective development and consequent potential impacts is considered in the decision making process.

In an effort to ensure that these factors are considered, an impact prioritisation factor (PF) will be applied to each impact ER (post-mitigation). This prioritisation factor does not aim to detract from the risk ratings but rather to focus the attention of the decision-making authority on the higher priority/significance issues and impacts. The PF will be applied to the ER score based on the assumption that relevant suggested management/mitigation impacts are implemented.

Table 5: Criteria for Determining Prioritisation

	Low (1)	Issue not raised in public response.		
Public Response	Medium (2)	Issue has received a meaningful and justifiable public response.		
(PR)	High (3)	Issue has received an intense meaningful and justifiable public response.		
	111611 (3)	issue has received an interise meaningful and justifiable public response.		
		Considering the potential incremental, interactive, sequential, and		
	Low (1)	synergistic cumulative impacts, it is unlikely that the impact will result in		
		spatial and temporal cumulative change.		
		Considering the potential incremental, interactive, sequential, and		
Cumulative Impact	Medium (2)	synergistic cumulative impacts, it is probable that the impact will result in		
(CI)		spatial and temporal cumulative change.		
		Considering the potential incremental, interactive, sequential, and		
	High (3)	synergistic cumulative impacts, it is highly probable/ definite that the		
		impact will result in spatial and temporal cumulative change.		
Low (1) Where the im		Where the impact is unlikely to result in irreplaceable loss of resources.		
		Where the impact may result in the irreplaceable loss (cannot be replaced		
Irreplaceable Loss	Medium (2)	or substituted) of resources but the value (services and/or functions) of		
of Resources (LR)		these resources is limited.		
	High (2)	Where the impact may result in the irreplaceable loss of resources of high		
	High (3)	value (services and/or functions).		

The value for the final impact priority is represented as a single consolidated priority, determined as the sum of each individual criteria represented in Table 5. The impact priority is therefore determined as follows:

Priority = PR + CI + LR

The result is a priority score which ranges from 3 to 9 and a consequent PF ranging from 1 to 2 (Refer to Table 6).



Table 6: Determination of Prioritisation Factor

Priority	Ranking	Prioritisation Factor
3	Low	1
4	Medium	1.17
5	Medium	1.33
6	Medium	1.5
7	Medium	1.67
8	Medium	1.83
9	High	2

In order to determine the final impact significance the PF is multiplied by the ER of the post mitigation scoring. The ultimate aim of the PF is to be able to increase the post mitigation environmental risk rating by a full ranking class, if all the priority attributes are high (i.e. if an impact comes out with a medium environmental risk after the conventional impact rating, but there is significant cumulative impact potential, significant public response, and significant potential for irreplaceable loss of resources, then the net result would be to upscale the impact to a high significance).

Table 7: Final Environmental Significance Rating

Environmental S	Environmental Significance Rating		
Value	Description		
< 10	Low (i.e. where this impact would not have a direct influence on the decision to develop in the area).		
≥10 <20	Medium (i.e. where the impact could influence the decision to develop in the area).		
≥ 20	High (i.e. where the impact must have an influence on the decision process to develop in the area).		

The significance ratings and additional considerations applied to each impact will be used to provide a quantitative comparative assessment of the alternatives being considered. In addition, professional expertise and opinion of the specialists and the environmental consultants will be applied to provide a qualitative comparison of the alternatives under consideration. This process will identify the best alternative for the proposed project.

1.3 SPECIALIST INVESTIGATIONS

It is important to note that in identifying, describing, and assessing the impacts, specialist sub-consultants were consulted and appointed to undertake an individual specialist studies. These studies informed the findings of this Basic Assessment and are appended as follows:

- Appendix E1- Heritage Impact Assessment Report;
- Appendix E2- Desktop Palaeontological Impact Assessment Report;



- Appendix E3- Desktop Hydrogeological Assessment Report;
- Appendix E4- Desktop Biodiversity Assessment Report.

2 IMPACT IDENTIFICATION

Impacts that are likely to occur as a result of the proposed project are described and assessed in this section. Table 8 provides a summary of the impacts identified for each phase of the proposed project.

Table 8: Impacts Identified

Impact	Phase
1.Job Creation	Planning and Construction
2.Temporary disturbance of wildlife due to increased	Planning
human presence and possible use of machinery and/or	
vehicles.	
3.Destruction of, and fragmentation of, portions of the	Construction
vegetation community;	
4.Loss of CBA1, CBA2 and ESA and sections of area classed	Construction
as moderate and highest biodiversity importance;	
5.Displacement of faunal community (including possible	Construction
threatened or protected species) due to habitat loss,	
disturbance (noise, dust and vibration) and/or direct	
mortalities;	
6.Continued disturbance of vegetation communities	Operation
(including portions of a CBA1, CBA2 and ESA and a section	
classed as moderate and highest biodiversity importance)	
7.Encroachment by alien invasive plant species;	Operation
8.Displacement of avifauna by the airborne survey;	Operation
9.Disturbance and mortalities of herpetofauna due to	Operation
assaying (Rock chips and Soil sampling);	On a matical
10.Ongoing displacement, direct mortalities and	Operation
disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances	
because of the drilling and access roads;	
11.Further impacts due to the spread and/or	Closure &
establishment of alien and/or invasive species;	Decommissioning
12.Displacement, direct mortalities and disturbance of	Closure &
faunal community (including multiple threatened species)	Decommissioning
due to habitat loss and disturbances (such as dust,	Decommissioning
vibrations, poaching and noise);	
13.Degradation of aquifers;	Construction
Impacts on existing groundwater users;	Construction and Operation
14.Impacts on surface water features (e.g. streams, rivers,	Construction
wetlands, saltpans) - which may be recharged by	
groundwater;	
15.Impact on potential burial grounds and graves;	Construction
16.Impact on structures older than 60 years;	Construction
17.Impact on archaeological resources;	Construction
18.Impact on palaeontological resources;	Construction
19.Noise;	Construction
20.Pollution of Soils and Compacting;	Construction
21.Air Quality;	Construction
22.Deterioration and damage to existing access roads and	Construction
tracks;	
23.Safety and security risks to landowners and lawful	Construction
occupiers;	



Impact	Phase
24.Interference with existing land uses;	Construction
25.Generation and disposal of waste; and	Construction
26.Erosion due to improper rehabilitation	Operation

Impacts 2-18 have been described and assessed in the relevant specialist reports and impacts 1,19-26 are described below.

2.1 PLANNING AND DESIGN PHASE IMPACTS

2.1.1 JOB CREATION

During the Planning and Design phase, employment opportunities will arise for the design and assessment of the proposed project as input would be required from a variety of professionals, such as engineers, environmental consultants and the regional and national authorities responsible for reviewing the applications made in terms of the relevant legislation.

Impact Name	Job Creation					
Alternative	Alternative 1					
Environmental Risk						
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation	
Nature	1	1	Magnitude	2	2	
Extent	1	1	Reversibility	1	1	
Duration	2	2	Probability	3	3	
Environmental Risk (Pr	e-mitigation)				4,50	
Mitigation Measures						
n/a						
Environmental Risk (Pa	ost-mitigation)				4,50	
Degree of confidence in impact prediction:					High	
Impact Prioritisation						
Public Response					1	
Low: Issue not raised i	n public responses					
Cumulative Impacts					1	
Low: Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is unlikely that the impact will result in spatial and temporal cumulative change.						
Degree of potential irreplaceable loss of resources					1	
Low: Where the impact is unlikely to result in irreplaceable loss of resources.						
Prioritisation Factor					1,00	
Final Significance 4,50					4,50	

2.2 CONSTRUCTION PHASE IMPACTS

2.2.1 JOB CREATION

During the construction phase of the project, employment opportunities will be created for the various professionals and staff that will be responsible for the prospecting activities.

Impact Name	Job Creation					
Alternative		Alternative 1				
Environmental Risk						
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation	
Nature	1	1	Magnitude	2	2	
Extent	1	1	Reversibility	1	1	
Duration	2	2	Probability	3	3	



Environmental Risk (Pre-mitigation)	4,50				
Mitigation Measures					
n/α					
Environmental Risk (Post-mitigation)	4, 50				
Degree of confidence in impact prediction:	High				
Impact Prioritisation					
Public Response	1				
Low: Issue not raised in public responses					
Cumulative Impacts	1				
Low: Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is unlikely that the impact will result in spatial and temporal cumulative change.					
Degree of potential irreplaceable loss of resources	1				
Low: Where the impact is unlikely to result in irreplaceable loss of resources.					
Prioritisation Factor	1,00				
Final Significance	4,50				

2.2.2 **NOISE**

It is anticipated that the proposed project may generate noise during the construction phase due to the operation of construction equipment and vehicles. Noise associated with any drilling activities is also anticipated to cause some disturbance to the surrounding residences as well as fauna.

Impact Name	Noise				
Alternative	Alternative 1				
Environmental Risk					
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation
Nature	-1	-1	Magnitude	1	1
Extent	1	1	Reversibility	2	2
Duration	2	2	Probability	3	2
Environmental Risk (Pre-mitigation)					-4,50
Mitigation Measures					·

Noise-generating activities associated with construction activities should be kept to a minimum.

Blasting permits (obtained from DMR for borrow pits and quarries and from the Chief Inspector of Explosives Unit (SAPS) for earthworks in the road alignment).

Compliance with the appropriate legislation/ any local by-laws and regulations regarding the generation of noise must be adhered to;

All the relevant permits must be obtained prior to commencement of blasting activities;

Noises that could cause a major disturbance (e.g. blasting) should only be carried out in areas located in close proximity to communities and/or residences during normal working hours. Should noise-generating activities have to occur at night (e.g. drilling of blast holes), communities and/or landowners in the vicinity of the drilling should be warned about the noise well in advance and the activities should be kept to a minimum. Compliance with the appropriate legislation with respect to noise will be mandatory.

Notification of surrounding residential and businesses but be done at least one week prior to blasting activities.

Tremited of softeending residential and besidesses but be done at least one week prior to blasting	aciivilies.			
Environmental Risk (Post-mitigation)	-3,00			
Degree of confidence in impact prediction:	High			
Impact Prioritisation				
Public Response	1			
Low: Issue not raised in public responses				
Cumulative Impacts	1			
Low: Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is unlikely that the impact will result in spatial and temporal cumulative change.				
Degree of potential irreplaceable loss of resources	1			



Low: Where the impact is unlikely to result in irreplaceable loss of resources.	
Prioritisation Factor	1,00
Final Significance	-3,00

2.2.3 AIR QUALITY (DUST GENERATION)

The proposed project may have impact on the air quality in the surrounding area. It is expected the following on site activities may result in dust generation: clearance of vegetation, the presence of loose building materials and excavated material stockpiles that may be blown by the wind.

Impact Name	Air Quality				
Alternative	Alternative 1				
Environmental Risk					
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation
Nature	-1	-1	Magnitude	1	1
Extent	2	1	Reversibility	2	2
Duration	1	1	Probability	3	2
Environmental Risk (Pre-mitigation)				-4,50	
Mitigation Measures					

- Dust emission should be within acceptable levels and dust control mechanisms must be in place from start to the end of mining activities and must be strictly adhered to.
- Use of suitable dust suppression measures such as water spraying;
- All stockpiles of fine material must be covered;
- Limit clearance of vegetation.
- Construction vehicles much be well serviced and in roadworthy condition.

Environmental Risk (Post-mitigation)	-2,50				
Degree of confidence in impact prediction:	High				
Impact Prioritisation					
Public Response	1				
Low: Issue not raised in public responses					
Cumulative Impacts	1				
Low: Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is unlikely that the impact will result in spatial and temporal cumulative change.					
Degree of potential irreplaceable loss of resources	1				
Low: Where the impact is unlikely to result in irreplaceable loss of resources.					
Prioritisation Factor	1,00				
Final Significance	-2,50				

2.2.4 DETERIORATION AND DAMAGE TO EXISTING ACCESS ROADS AND TRACKS

The presence of more vehicles than normal on site may lead to deterioration of existing access roads.

Impact Name	Deterioration and damage to existing access roads and tracks				
Alternative	Alternative 1				
Environmental Risk	onmental Risk				
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation
Nature	-1	-1	Magnitude	2	1
Extent	2	1	Reversibility	3	2
Duration	1	1	Probability	4	4
Environmental Risk (Pre-mitigation)				-8,00	



Mitigation Measures	
Rehabilitation of disturbed areas.	
Maintenance of access roads during and after construction.	
Environmental Risk (Post-mitigation)	-5,00
Degree of confidence in impact prediction:	High
Impact Prioritisation	
Public Response	1
Low: Issue not raised in public responses	
Cumulative Impacts	1
Low: Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, impact will result in spatial and temporal cumulative change.	it is unlikely that the
Degree of potential irreplaceable loss of resources	1
Low: Where the impact is unlikely to result in irreplaceable loss of resources.	
Prioritisation Factor	1,00
Final Significance	-5,00

2.2.5 SAFETY AND SECURITY RISKS TO LANDOWNERS AND LAWFUL OCCUPIERS

The presence of construction equipment on site may increase the crime in the prospecting area.

Impact Name	Safety and security risks to landowners and lawful occupiers				
Alternative	Alternative 1				
Environmental Risk					
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation
Nature	-1	-1	Magnitude	2	2
Extent	2	2	Reversibility	3	3
Duration	1	1	Probability	3	2
Environmental Risk (Pre-mitigation)				-6,00	
Mitigation Measures					

- The Applicant through the Project Manager shall ensure:
 - O That reasonable measures are taken to ensure the safety of all site staff;
 - O Adequate access control must be implemented in site camp and site;
 - Awareness training should be provided to construction staff on safety, health and environmental matters;
 - $\circ \quad \hbox{Provide appropriate Personal Protective Equipment (PPE) where required;}$
 - Compliance with the Occupational Health and Safety Act (Act No. 85 of 1993) and associated regulations;
 - The Applicant and Contractor must ensure that he/she has the contact details of the nearest emergency rooms (hospitals) to the site, of both private and public hospitals.

Appropriate signage and barriers must be provided for open trenches and other dangerous hazardous locations on site where deemed necessary. The ECO has the discretion to request additional safety measures.

where deemed necessary. The ECO has the discretion to request additional safety measures.					
Environmental Risk (Post-mitigation)	-4,00				
Degree of confidence in impact prediction:	High				
Impact Prioritisation					
Public Response	1				
Low: Issue not raised in public responses					
Cumulative Impacts	1				
Low: Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, it is unlikely that the impact will result in spatial and temporal cumulative change.					
Degree of potential irreplaceable loss of resources	1				
Low: Where the impact is unlikely to result in irreplaceable loss of resources.					
Prioritisation Factor 1,00					
Final Significance	-4,00				



2.2.6 INTERFERENCE WITH EXISTING LAND USES

The proposed application areas are currently used for grazing of sheep and cattle. The prospecting activities may temporarily affect the availability of some areas for this use during construction phase.

Impact Name	Iternative Alternative 1														
Alternative			Alternative 1												
Environmental Risk															
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation										
Nature	-1	-1	Magnitude	1	1										
Extent	2	1	Reversibility	2	2										
Duration	2	4													
Environmental Risk (Pr	-7,00														
Mitigation Measures															
Consultation with land Finalize agreements w Adequate communicat activities.	vith landowners befo	• •	. •		prospecting										
Environmental Risk (Pa	ost-mitigation)				-5,00										
Degree of confidence	in impact prediction	:			High										
Impact Prioritisation															
Public Response					2										
Medium: Issue has rec	eived a meaningful d	and justifiable public r	esponse												
Cumulative Impacts					1										
Low: Considering the impact will result in sp	•		al, and synergistic	cumulative impacts,	it is unlikely that the										
Degree of potential in	replaceable loss of i	resources			1										
Low: Where the impa	ct is unlikely to result	in irreplaceable loss	of resources.												
Prioritisation Factor					1,17										
Final Significance					-5,83										

2.2.7 GENERATION AND DISPOSAL OF WASTE

During the prospecting activities, minimal waste may be generated from consumption of food on site, fuelling of vehicle, placement of ablution facilities etc.

Impact Name		Generat	ion and disposal	of waste		
Alternative			Alternative 1			
Environmental Risk						
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation	
Nature	-1	-1	Magnitude	2	2	
Extent	1	1	Reversibility	2	2	
Duration	1	1	Probability	4	3	
Environmental Risk (Pr	-6,00					
Mitigation Measures						
Implement an integrat Compliance with EMP	•	ent system.				
Environmental Risk (Pa	ost-mitigation)				-4,50	
Degree of confidence	in impact prediction				High	
Impact Prioritisation						
Public Response					1	
Low: Issue not raised i	n public responses					



Cumulative Impacts	1										
Low: Considering the potential incremental, interactive, sequential, and synergistic cumulative impacts, impact will result in spatial and temporal cumulative change.	it is unlikely that the										
Degree of potential irreplaceable loss of resources	1										
Low: Where the impact is unlikely to result in irreplaceable loss of resources.	Low: Where the impact is unlikely to result in irreplaceable loss of resources.										
Prioritisation Factor	1,00										
Final Significance	-4,50										

2.3 OPERATIONAL PHASE IMPACTS

2.3.1 JOB CREATION

During the operational phase of the project, employment opportunities will be created for the contractors and professionals during prospecting.

Impact Name			Job Creation				
Alternative			Alternative 1				
Environmental Risk							
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation		
Nature	1	1	Magnitude	2	2		
Extent	1	1	Reversibility	1	1		
Duration	2	2	Probability	3	3		
Environmental Risk (Pr	e-mitigation)				4, 50		
Mitigation Measures							
n/a							
Environmental Risk (Pa	4, 50						
Degree of confidence	in impact prediction				High		
Impact Prioritisation							
Public Response					1		
Low: Issue not raised i	n public responses						
Cumulative Impacts					1		
Low: Considering the impact will result in sp	•		al, and synergistic	cumulative impacts, i	it is unlikely that the		
Degree of potential in	rreplaceable loss of	resources			1		
Low: Where the impa	ct is unlikely to result	in irreplaceable loss	of resources.				
Prioritisation Factor					1,00		
Final Significance					4,50		

2.3.2 EROSION DUE TO IMPROPER REHABILITATION

In the event that adequate rehabilitation is not implemented, this could result in a lack of vegetation cover and as a result, lead to increased erosion.

Impact Name	Erosion due to improper rehabilitation														
Alternative			Alternative 1												
Environmental Risk															
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation										
Nature	-1	-1	Magnitude	2	1										
Extent	2	1	Reversibility	3	3										



Duration	2	1	Probability	2	2							
Environmental Risk (Pr	e-mitigation)				-4,50							
Mitigation Measures												
Rehabilitation monitoring by ECO until vegetation is established to a satisfactory level.												
Environmental Risk (Pa		-3,00										
Degree of confidence		High										
Impact Prioritisation												
Public Response		1										
Low: Issue not raised in public responses												
Cumulative Impacts		1										
Low: Considering the impact will result in sp			ntial, and synergistic	cumulative impacts, i	it is unlikely that the							
Degree of potential in	replaceable loss of 1	esources			1							
Low: Where the impa	ct is unlikely to result	in irreplaceable lo	ss of resources.									
Prioritisation Factor					1,00							
Final Significance					-3,00							

2.4 REHABILITATION PHASE IMPACTS

2.4.1 JOB CREATION

During the Rehabilitation phase, it is anticipated that relevant specialists will be appointed for the reestablishment of vegetation in the disturbed areas that will not have any project related permanent infrastructure.

Impact Name			Job Creation										
Alternative			Alternative 1										
Environmental Risk													
Attribute	Pre-mitigation	Post-mitigation	Attribute	Pre-mitigation	Post-mitigation								
Nature	1	1	Magnitude	2	2								
Extent	1	1	Reversibility	1	1								
Duration	2	3											
Environmental Risk (Pr	Environmental Risk (Pre-mitigation)												
Mitigation Measures													
n/a													
Environmental Risk (Pa	4,50												
Degree of confidence	in impact prediction				High								
Impact Prioritisation													
Public Response					1								
Low: Issue not raised i	n public responses												
Cumulative Impacts					1								
Low: Considering the impact will result in sp			al, and synergistic	cumulative impacts,	it is unlikely that the								
Degree of potential in	replaceable loss of	resources			1								
Low: Where the impa	ct is unlikely to result	in irreplaceable loss	of resources.										
Prioritisation Factor					1,00								
Final Significance					4,50								



Appendix 1: Impact Significance Rating Table

Impact Assessment Calculations

Set Property	IMPACT [DESCRIPTION				PRE	- MITIGAT	ION					PO	ST - MITIGA	TION			<u> </u>	IIV	IPACT PRIORITISA	TION		
- A Company of the Co	Impact		Phase	Nature	Extent				Probability	Pre-mitigation	ER Natu	re Exter				Probability	Post-mitigation ER	Confidence				Priority Factor	Final score
STATE OF THE PROPERTY OF THE P	Temporary disturbance of wildlife						<u> </u>		Í	J				"		ĺ	Ŭ					j	
See Market will be Market See Mar	due to increased human																						
The contract of the contract o	l.	Alta wa atio ca d	Diamaina	4			•		_		0.05						4.5	I II ada	4			4.00	4.50
Confect of the property of the	· ·	Alternative 1	Planning	-1	3	2	3	3	3	3	-8.25	-1	3	2 2	2	2	-4.5	High	1		1	1.00	-4.50
The second control of the control of																							
This is the second control of the second con	faunal community (including																						
March Conference March Confe	multiple threatened species) due																						
Property																							
Transport of the control of the cont		A 14	D.I.d. and d.	4			0	,	4		40							12.1	4				7 0 10
specimen of a bis browning of the first of the control of the cont		Alternative 1	Renab and closure	-1	3	3	3	4	4	ł <u> </u>	-13	-1	3	3 3	2	2	-5.5	Hign	1		1 2	1.17	-6.42
The content of the mining of Segment (1) (1) (2) (2) (3) (3) (3) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4																							
Secretary Secret	(Rock chips and Soil sampling)	Alternative 1	Rehab and closure	-1	1 3	3	4	3	3	3	-9.75	-1	3	3 3	3	3	-9	Hiah	1		1 2	1.17	-10.50
Secretary (American) (Paragraph 1) (American) (American	Erosion due to improper																_	g			_		75.55
8 Georges Revision Security	rehabilitation	Alternative 1	Rehab and closure	-1	2	2	2	3	2	2	-4.5	-1	1	1 1	3	2	-3	High	1	1	1 1	1.00	-3.00
Advantation Advantage Secretary Commission Commissi	Job Creation	Alternative 1	Planning	1	1	2	2	1	3	3	4.5	1	1	2 2	1	3	4.5	High	1	1	1 1	1.00	4.50
8 - State Manufact	Job Creation	Alternative 1	Construction	1	1	2	2	1	3	3	4.5	1	1	2 2	1	3	4.5	High	1	1	1 1	1.00	4.50
Affine Company of the	Job Creation	Alternative 1	Operation	1	1	2	2	1	3	3	4.5	1	1	2 2	1	3	4.5	High	1	1	1 1	1.00	4.50
TRANSPORT MATERIAL PROPERTY OF THE PROPERTY OF	Job Creation	Alternative 1	Decommissioning	1	1	2	2	1	3	3	4.5	1	1	2 2	1	3	4.5	High	1	1	1 1	1.00	4.50
The control of the co			Rehab and closure	1	1	2	2	1	3	3	4.5	1	1	2 2	1	3	4.5	High	1	1	1	1.00	4.50
Extract per protection of changes for the control of the control o	Temporary disturbance of wildlife																					I	
Secretic New College																						I	
The property of analysis of the property of any of the property of a	I'	Alternative 1	Construction	4	3		2	2	2		-8.25	_1	3	2		2	4.5	High	4		1	1.00	1.50
Annexes of the control of the contro	machinery and/or verildes.	Alternative 1	CONSTRUCTION	-1	3	2	3	3	3	,	-0.23	-1	3	4 4	2	2	-4.5	тыйн	1			1.00	-4.50
Annexes of the control of the contro	Deterioration and damage to																						
The property of the property o		Alternative 1	Construction	-1	2	. 1	2	3	4	1	-8	-1	1	1 1	2	4	-5	High	1		1 1	1.00	-5.00
The control of the CRA, 100 CC SA and a recommendation of the control of the cont	Continued disturbance of																	J					
More 16th and 16th an	vegetation communities																						
Secretary and Majertal Management of Secretary Systems (Secretary Systems of Secretary System																							
entenders produced and produced																							
Contractive Cont																							
inter species with a second control by the property of the pro																							
Residence of Selection Services (2) Selection Se	-	Alternative 1	Operation	-1	4	. 4	4	4	4	ı <mark>l</mark>	-16	-1	3	3 4	. 3	3	-9.75	High	1	1	1 2	1.17	[′] -11.38
Proposed programma program	Displacement of avifauna by the																	J					
Members Construction 1 1 5 6 7 7 7 7 7 7 7 7 7		Alternative 1	Operation	-1	4	3	3	4	5	5	<mark>-17.5</mark>	-1	3	3 3	3	3	-9	High	1	1	1 2	1.17	-10.50
International plant design of the construction	_ · · · · · · · · · · · · · · · · · · ·	A 1: 4: 4						_	_					_	_		0.05		,			4.00	4.00
More man More More 1 Construction 1		Alternative 1	Construction	-1	1	5	4	5	4	ł	-15	-1	1	5 2	5	1	-3.25	Hign	1		3	1.33	-4.33
Property of sections of the constructions of the construction of t	_	Alternative 1	Construction	-1			1	2	4		-7	-1	1	1 1	2	4	-5	High	2	,	1	1 17	7 -5.83
Abstraction	Impact on structures older than	/ interridate i	Construction				·	-			,	-	1	•		'		riigii				1.17	0.00
Indicating and institution coupers Alternative Construction 1 2 1 2 3 3 4.5 5 1 1 1 2 2 2.5 High 1 1 1 1.00 2.50 In Coality Alternative Reliable and closure 1 2 1 2 3 4.5 5 1 1 1 2 2.5 High 1 1 1 1.00 2.50 In Coality Alternative Reliable and closure 1 2 1 2 3 4.5 5 1 1 1 2 2 2.5 High 1 1 1 1.00 2.50 In Coality Alternative Reliable and closure 1 2 1 2 3 4.5 5 1 1 1 2 2 2.5 In Coality Alternative Reliable and closure 1 2 1 2 3 4.5 5 1 1 1 2 2 2.5 In Coality Alternative Reliable and closure 1 2 1 2 3 4.5 5 1 1 1 2 2.5 In Coality Alternative Reliable and closure 1 4 4 3 3 3 4.5 5 1 5 5 2 3 2 2 2 5 High 1 1 1 2 1.17 In Coality Alternative Reliable and closure 1 4 4 3 3 3 4.5 5 5 4 5 3 2 2 3 2 2 2 5 High 1 1 2 1.17 In Coality Alternative Reliable and closure 1 4 4 4 3 3 3 4.5 5 5 4 5 3 2 2 2 3 4 4 3 3 4 4 3 3 4 4	• •	Alternative 1	Construction	-1	1 1	5	3	5	2	2	-7	-1	1	5 2	5	1	-3.25	High	1	1	1 2	1.17	-3.79
Indicating Alternative 1 Construction 1 1 2 1 1 2 3 3 3 4 5 5 1 1 1 1 2 2 2 2 5 1 1 1 1 1 1 1 1 1																							
in Quality Alternative 1 Construction 1 2 1 1 2 3 4.5 1 1 1 1 2 2 2.5 High 1 1 1 1.00 2.50 In Quality Alternative 1 Construction 1 2 1 1 2 3 4.5 1 1 1 1 2 2 2 2.5 High 1 1 1 1.00 2.50 In Quality Alternative 1 Relation and closure 1 2 1 1 2 3 4.5 1 1 1 1 2 2 2 2.5 High 1 1 1 1.00 2.50 In distributances of fearnal community (including multiple relationed species) due to admits class and clistrophers and the search of status and consulting multiple relationships and relation of squarkers Relation and closure 1 4 4 5 3 3 4.65 1 1 1 1 2 2 3 4.5 1 1 1 1 2 2 3 4.5 1 In quality Alternative 1 Relation and closure 1 4 4 5 3 3 4.5 1 1 1 1 2 2 3 4.5 1 1 1 1 2 2 3 4.5 1 1 1 1 1 2 2 3 4.5 1 1 1 1 1 2 2 3 4.5 1 1 1 1 1 1 2 3 3 4.5 1 1 1 1 1 2 3 3 4.5 1 1 1 1 1 1 1 2 3 3 4.5 1 1 1 1 1 1 1 1 1																	,						
in Quality Alternative 1 Renative				-1	2	2 1	2	3	3	3	-6	-1	2	1 2	3	2	-4		1	1	1 1		
Herba and closure — 1 2 5 1 2 3 4 5 5 1 1 1 1 1 2 2 2 5 1 1 2 3 3 4 5 5 1 1 1 1 1 1 2 2 2 5 1 1 1 2 3 3 4 5 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•			-1	2	! 1	1	2	3	3		-1	1	1 1	2	2			1	1	1 1		
Pepadement direct mortalities		+		-1	2	2 1	1	2	3	3		-1	1	1 1	2	2			1		1 1		
addisturbance of faural mormolity (including multiple treatment species) due to ablated tosa and disturbances such as dust, vibrations, coaching and noise). Alternative 1 Construction 1 1 4 4 3 3 3 3 1.05 1 3 2 3 2 2 5 5 High 1 1 1 2 1.17 5.88 Magnatation of augularis; Alternative 1 Construction 1 1 3 4 4 3 3 3 1.05 1 3 2 2 2 2 3 5 5 High 1 2 3 1.50 1.013 1.		Alternative 1	Rehab and closure	-1	2	2 1	1	2	3	3	-4.5	-1	1	1 1	2	2	-2.5	High	1	1	1 1	1.00	-2.50
ormanity (including multiple rectating multiple rectating multiple rectating depth (including multiple rectation) and depth (including multiple rectation). Alternative 1 Rehab and closure -1 4 4 3 3 3 3 -10.5 -1 3 2 2 3 2 2 5 5 High 1 1 1 2 1.1.7 -5.83 regretation of aquifers; Alternative 1 Construction -1 3 4 4 3 3 3 -10.5 -1 3 2 2 2 2 3 -6.75 High 1 2 3 1.50 -10.73 regretation of aquifers; Alternative 1 Construction -1 3 2 4 3 3 3 -9 -1 3 2 2 2 2 2 3 -6.75 High 1 2 2 3 1.50 -10.73 regretation of aquifers; Alternative 1 Construction -1 1 5 4 5 2 5 1 3.25 High 1 1 2 3 1.33 -	1 '																						
invasioned species julie to abbitate one and disturbances such as dust, vibrations, one aching and morals). Alternative 1 Rehab and closure -1 4 4 4 3 3 3 3 -10.5 -1 3 2 3 2 2 5 5 High 1 1 2 3 1.17 5.83 such as obstitution of a such as obstitution as obstitution as obstitution as obstitution as obstitution of a such as obstitution as																						I	
ablat loss and disturbances uch days and roles and disturbances obaching and noise). Alternative 1 Rehab and dosure -1 4 4 4 3 3 3 -10.5 -1 3 2 3 2 2 2 3 -6.75 High 1 2 3 1.17 -5.83 repeated no existing groundwater 4. Alternative 1 Construction -1 3 2 4 4 3 3 3 -10.5 -1 3 2 2 2 2 2 3 -6.75 High 1 2 3 1.50 -6.75 repeat on potential burial notation and disposal of waster with the source of th	threatened species) due to																					I	
acaching and notes). Alternative 1 Rehab and closure - 1 4 4 4 3 3 3 3 -10.5 - 1 3 2 2 2 -5 High 1 1 2 1.17 5.883 superadation of augustass. Alternative 1 Construction - 1 3 4 4 4 3 3 3 -10.5 - 1 3 2 2 2 2 3 5.75 High 1 2 3 1.50 -10.13 npacts on existing groundwater Alternative 1 Construction - 1 3 4 4 4 3 3 3 -10.5 - 1 3 2 2 2 2 2 2 3 5.75 High 1 2 3 1.50 -10.13 npacts on existing groundwater Alternative 1 Construction - 1 3 2 5 4 5 3 3 5 - 0 - 1 3 2 2 2 2 2 2 2 2 3 5.75 High 1 2 3 1.50 -10.13 npacts on existing groundwater Alternative 1 Construction - 1 3 2 5 4 5 5 2 -7.5 H 1 5 5 2 5 1 3.28 High 1 1 3 3 1.33 4.33 npact on archaeological appear on archaeological	habitat loss and disturbances																					I	
Negradation of aquifers: Alternative 1 Construction -1 3 4 4 3 3 10.8 -1 3 2 2 2 3 3 -6.75 High 1 2 3 1.50 -10.13	(such as dust, vibrations,																					I	
Impacts on existing groundwater Alternative 1 Construction -1 3 2 4 3 3 3 -9 -1 3 2 2 2 2 2 2 4.5 High 1 2 3 1.50 6.75				-1	4	4	3	3	3	3		-1	3	2 3	2	2	-5		1		1 2		
mpact on potential burial rounds and graves; Alternative 1 Construction -1 1 5 4 5 2 -7.5 1 1 5 2 5 1 3.25 High 1 1 3 3 1.33 4.33 mpact on archaeological sources; Alternative 1 Construction -1 1 5 4 5 2 -7.5 1 1 5 2 5 1 3.25 High 1 1 1 3 3 1.33 4.33 mpact on archaeological sources; Alternative 1 Construction -1 1 5 3 5 2 -7.5 1 1 5 2 5 1 3.25 High 1 1 1 2 1.17 -3.79 Male years and security risks to mandowners and lawful occupiers. Alternative 1 Operation -1 2 1 2 3 3 3 -6 -1 2 1 2 3 2 -4 High 1 1 1 1 1.00 -4.00 minor and fragmentation of construction of, and fragmentation of munity. Alternative 1 Construction -1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Degradation of aquifers;			-1	3	4	4	3	3	3	-10.5	-1	3	2 2	2	3			1	2	2 3		
rounds and graves: Alternative 1 Construction -1 1 5 4 5 2 -7.5 1 1 5 2 5 1 3.25 High 1 1 3 1.33 4.33 magnet on archaeological sources; Alternative 1 Construction -1 1 5 3 3 5 2 -7.7 -1 1 5 5 2 5 1 3.25 High 1 1 2 1.17 -3.79 and security risks to andowners and lawful occupiers Alternative 1 Construction -1 1 2 1 2 3 3 3 -6 -1 2 1 2 3 2 -4 High 1 1 1 1 1 0 4.00 Alternative 1 Construction of, and fragmentation of, northic ordinary of the vegetation of, mmunity; Alternative 1 Construction -1 1 4 4 4 4 4 4 4 4 -16 -1 2 3 3 3 3 -8.25 High 1 1 1 2 1.17 -9.63 Alternative 1 Construction of formulative interaction of the vegetation of the vege	·	Alternative 1	Construction	-1	3	2	4	3	3	3	-9	-1	3	2 2	2	2	-4.5	High	1	2	2 3	1.50	-6.75
mpact on archaeological sources; Alternative 1 Construction -1 1 5 3 5 2 -7 -1 1 5 2 5 1 -3.25 High 1 1 2 1.17 -3.79 Alternative 1 Construction -1 1 2 1 2 3 3 -6 -1 2 1 2 3 3 2 -4 High 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	·	A 14 a ma = 4 4	Construction					_			7.5	1		<i>E</i>	_		0.0-	1.15 1					1.00
Alternative 1 Construction -1 1 5 3 5 2 -7 -1 1 5 2 5 1 -3.25 High 1 1 2 1.17 -3.79 Lafety and security risks to andowners and lawful occupiers Alternative 1 Construction -1 1 2 1 2 3 3 3 -6 -1 2 1 2 3 2 -4 High 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Aiternative 1	Construction	-1	1	5	4	5	2	<u>′</u>	-7.5	1	1	5 2	5	1	3.25	High	1		3	1.33	4.33
alefety and security risks to andowners and lawful occupiers. Alternative 1 Operation 1 2 1 2 3 3 3 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I .	Alternative 1	Construction	_1	1	5	2	5	2		-7	-1	1	5	5	1	-3 25	High	1		1	1 17	-3 70
andowners and lawful occupiers	,	, atomative i	Jones dollori	- 1		3	<u> </u>	J	2		,	'					-0.20	riigii			2	1.17	0.13
andowners and lawful occupiers	Safety and security risks to																					I	
Reneration and disposal of waste Alternative 1 Construction -1 1 1 2 2 4 4 -6 -1 1 1 2 2 3 3 -4.5 High 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Alternative 1	Operation	-1	2	1	2	3	3	3	-6	-1	2	1 2	3	2	-4	High	1		1 1	1.00	-4.00
Destruction of, and fragmentation f, portions of the vegetation ommunity; Alternative 1 Construction Alternative																							
f, portions of the vegetation ommunity; Alternative 1 Construction -1 4 4 4 4 4 4 4 -16 -1 2 3 3 3 3 -8.25 High 1 2 1.17 -9.63 Alternative 1 Construction -2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			Construction	-1	1	1	2	2	4	1	-6	-1	1	1 2	2	3	-4.5	High	1	1	1 1	1.00	-4.50
Ommunity; Alternative 1 Construction -1 4 4 4 4 4 4 4 -16 -1 2 3 3 3 3 -8.25 High 1 1 2 1.17 -9.63 Displacement of faunal community (including possible increatened or protected species) ue to habitat loss, disturbance noise, dust and vibration) and/or																						I	
Displacement of faunal community (including possible increatened or protected species) ue to habitat loss, disturbance noise, dust and vibration) and/or	-	Alternative 1	Construction	_1	1		1		1	ı	-16	-1	2	3	2	2	_0.25	High	1		1	1 1 7	-0.63
ommunity (including possible nreatened or protected species) ue to habitat loss, disturbance noise, dust and vibration) and/or	Sommanity,	Alternative I	CONSTRUCTION	-1	4	4	4	4	4		10	-			3	3	-0.25	riigii			2	1.17	-9.03
ommunity (including possible nreatened or protected species) ue to habitat loss, disturbance noise, dust and vibration) and/or	Displacement of faunal																					I	
ue to habitat loss, disturbance noise, dust and vibration) and/or	community (including possible																					I	
noise, dust and vibration) and/or	threatened or protected species)																					I	
																						I	
The mortalities, Internative I Construction -1 4 3 4 3 3 -10.0 -1 3 2 2 2 3 -0.75 High	,		Construction	4	1	2	4	2			-10.5	_1	3	2		2	6.75	Uiah				4 4 7	7 00
	anot mortantios,	Tallellialive I	CONSTRUCTION	-	4	٥	4	1 3	3	'	-10.5	-1	J	4		3	-0.75	riigii			4	1.17	-7.00

Impact Assessment Calculations

IMPACT D	PRE - MITIGATION						POST - MITIGATION							IMPACT PRIORITISATION							
Impact	Alternative	Phase	Nature	e Extent	Duration	Magnitude	Reversibility	Probability	Pre-mitigation ER	Nature Ex	tent Dura	ion Magı	nitude Reversibility	Probability	Post-mitigation ER	Confidence	Public response	Cumulative Impact	Irreplaceable loss	Priority Factor	Final score
Loss of ESA and sections of area classed as moderate and highest biodiversity importance;		Construction	_	1 4	4	3	4 3		1 -14	-1	3	3	3 3	3	-9	High	1			2 1.17	-10.50
Impact on Surface Water Sources		Construction	-	1 :	3	3	4 3	2	-6.5	-1	3	2	2 2	2 2	-4.5	High	1	2	2	1 1.17	
Further impacts due to the spread and/or establishment of																					
alien and/or invasive species;	Alternative 1	Rehab and closure	-	1 4	4	3	4 4	. 3	-11.25	-1	3	3	3 3	3	-9	High	1	1		2 1.17	-10.50
Noise	Alternative 1	Construction	-	1	1	2	1 2	3	-4.5	-1	1	2	1 2	2 2	-3	High	1	1	,	1.00	-3.00
Pollution and Compacting of	Alternative 1	Construction	_	1 .	1	1	1 3		-/ F	-1	1	1	1 3	2	-2.5	High	1	1		1 1.00	-2.5(