IMPACT	DESCRIPTIO	N			PRE	- MITIGATI	ON					POST	T - MITIGATI	ON							$\overline{}$
Impact	Alternative	Phase	Nature	Extent	Duration	Magnitude		Probability	Pre-mitigation ER	Nature	Extent		Magnitude	Reversibility	Probability	Post-mitigation ER	Confidence	Cumulative Impact	Irreplaceable loss	Priority Factor	Final score
Job Creation	Alternative 1	Planning	1		1 2	2 2	2 1	3	4.5	1	1	2	. 2	1	3	4.5	High		1 1	1 1.00	4.50
Job Creation	Alternative 1	Construction	1		1 2	2 2	2 1	3	4.5	1	1	2	. 2	2 1	3				1	1.00	4.50
Job Creation	Alternative 1	Operation	1		1 2	2 2	2 1	3	4.5	1	1	2	. 2	2 1	3	4.5			1 1	1.00	
Job Creation	Alternative 1	Decommissio ning	1		1 2	2 2	2 1	3	4.5	1	1	2	. 2	2 1	3	4.5			1 1	1 1.00	
Job Creation	Alternative 1	Rehab and closure	1		1 2	2 2	2 1	3	4.5	1	1	2	2	2 1	3	4.5	High		1 1	1 1.00	4.50
Impact on Air quality from dust	Alternative 1	Construction	-1		2 1		2	3	-4.5	-1	1	1	1	2	2	-2.5	High		1	1.00	-2.50
disposal of waste	Alternative 1	Construction	-1		1 1	1 2	2 2	4	-6	-1	1	1	2	2 2	÷,	-4.5	High		1	1.00	
Noise	Alternative 1	Construction	-1		1 2	2	1 2	3	-4.5	-1	1	2	1	2	2	-3	High		1	1.00	-3.00
Damage/destruction of graves: Burial Grounds and Graves (KF001, KF002, KF005. KF006, KF007, KF010))	Alternative 1	Planning	-1		1 5	5 5	5 5	3	-12	-1	1	4	. 2	2 4	2	2 -5.5	High		2	3 1.38	3 -7.56
Damage/destruction of graves: Burial Grounds and Graves (KF001, KF002, KF005. KF006, KF007, KF010))	Alternative 1	Construction	-1		1 5	5 5	5 5	4	-16	-1	1	4	. 2	2 4	2	2 -5.5	High		2	3 1.38	3 -7.56
Damage/destruction of graves: Burial Grounds and Graves (KF001, KF002, KF005. KF006, KF007, KF010))	Alternative 1	Operation	-1		1 5	5	5 5	4	-16	-1	1	4	. 2	2 4	2	2 -5.5	High		2	3 1.38	3 -7.56
Damage/destruction of graves: Burial Grounds and Graves (KF001, KF002, KF005. KF006, KF007, KF010))	Alternative 1	Decommissio ning	-1		1 5	5 .	5 5	4	-16	-1	1	4	. 2	2 4	2	2 -5.5	High		2	3 1.38	3 -7.56
Damage/destruction of graves: Burial Grounds and Graves (KF001, KF002, KF005. KF006, KF007, KF010))	Alternative 1	Rehab and closure	-1		1 5	5	5 5	3	-12	-1	1	4	. 2	2 4	2	2 -5.5	High		2	3 1.38	3 -7.56
Damage/destruction to structures: Historical structures- Klip Power & Springfield Colliery (KF009, KF011, KF012, KF013)	Alternative 1	Planning	-1		1 5	5	3 5	3	-10.5	-1	1	3	3	3	2	-5	High		2	2 1.25	5 -6.25
Damage/destruction to structures: Historical structures- Klip Power & Springfield Colliery (KF009, KF011, KF012, KF013)		Construction	-1		1 5	5 .	3 5	4	-14	-1	1	3	3	3	2	2 -5	High		2	2 1.25	5 -6.25
Damage/destruction to structures: Historical structures- Klip Power & Springfield Colliery (KF009, KF011, KF012, KF013)		Operation	-1		1 5	5 .	3 5	4	-14	-1	1	3	3	3	2	2 -5	High		2 2	2 1.25	5 -6.25
Damage/destruction to structures: Historical structures- Klip Power & Springfield Colliery (KF009, KF011, KF012, KF013)	Alternative 1	Decommissio ning	-1		1 5	5 (	3 5	4	-14	-1	1	3	3	3	2	2 -5	High		2	2 1.25	5 -6.25

IMPACT	DESCRIPTION	I	PRE - MITIGATION									POST	- MITIGATI	ON									
Impact	Alternative	Phase	Nature	Extent	Duration		Reversibility	Probability	Pre-mitigation ER	Nature	Extent				Probability	Post-mitigation ER	Confidence	Cumulative Impact	Irreplaceable loss	Priority Factor	Final score		
Damage/destruction to structures: Historical structures- Klip Power & Springfield Colliery (KF009, KF011, KF012, KF013)		Rehab and closure	-1	1	5	3	5	3	3 -10.5	-1	1	3	3	3	2	-5	High	2	2	2 1.25	-6.25		
Damage/destruction of structures: Farmstead (KF008)	Alternative 1	Planning	-1	1	5	4	5	3	-11.25	-1	1	5	5	5	2	-8	High	2	2	2 1.25	-10.00		
Damage/destruction of structures: Farmstead (KF008)	Alternative 1	Construction	-1	1	5	4	5	4	1 -15	-1	1	5	5	5	2	-8	High	2	2	1.25	-10.00		
Damage/destruction of structures: Farmstead (KF008)	Alternative 1	Operation	-1	1	5	4	5	4	1 -15	-1	1	5	5	5	2	-8	High	2	2	2 1.25	-10.00		
Damage/destruction of structures: Farmstead (KF008)	Alternative 1	Decommissio ning	-1	1	5	4	5	2	1 -15	-1	1	5	5	5	2	-8	High	2	2	2 1.25	-10.00		
Damage/destruction of structures: Farmstead (KF008)	Alternative 1	Rehab and closure	-1	1	5	4	5	3	-11.25	i -1	1	5	5	5	2	-8	High	2	2	2 1.25	-10.00		
Damage/destruction of site :Redan Archaelogical Site (KF004)	Alternative 1	Planning	-1	1	5	5 5	5 5	2	1 -16	-1	1	4	3	5	2	-6.5	High	3	3	3 1.50	-9.75		
Damage/destruction of site :Redan Archaelogical Site (KF004)	Alternative 1	Construction	-1	1	5	5	5 5	Ę	5 -20	-1	1	4	3	5	3	-9.75	High	3	3	3 1.50	-14.63		
Damage/destruction of site :Redan Archaelogical Site (KF004)	Alternative 1	Operation	-1	1	5	5	5 5	5	5 -20	-1	1	4	3	5	3	-9.75	High	3	3	1.50	-14.63		
Damage/destruction of site :Redan Archaelogical Site (KF004)	Alternative 1	Decommissio ning	-1	1	5	5	5 5	Ę	5 -20	-1	1	4	3	5	3	-9.75	High	3	3	3 1.50	-14.63		
Damage/destruction of site :Redan Archaelogical Site (KF004)	Alternative 1	Rehab and closure	-1	1	5	5	5 5	2	1 -16	-1	1	4	3	5	2	-6.5	High	3	3	3 1.50	-9.75		
Safety and security risks to landowners and lawful occupiers	Alternative 1	Operation	-1	2	2 1	2	2 3		-6	-1	2	2 1	2	3	2	-4	High	1	1	1.00	-4.00		
Safety and security risks to landowners and lawful occupiers	Alternative 1	Construction	-1	2	2 1	2	3	3	-6	-1	2	2 1	2	3	2	-4	High	1	1	1.00	-4.00		
Interference with existing land uses	Alternative 1	Construction	-1	2	2 2	. 1	2	4	-7	-1	1	1	1	2	4	-5	High	1	1	1.17	-5.85		
Deterioration and damage to existing access roads and tracks	Alternative 1	Construction	-1	2	2 1	2	2 3	2	1 -8	-1	1	1	1	2	4	-5	High	1	1	1.00	-5.00		
Temporary disturbance of wildlife due to increased human presence and possible use of machinery and/o vehicles.	Alternative 1	Planning	-1	3	3 4	. 4	4	4	1 -15	-1	1	3	2	2	2	-4	High	1	2	2 1.13	-4.50		
Destruction, further loss and fragmentation of the vegetation community	Alternative 1	Construction	-1	2	4	. 4	5	2	1 -17	-1	2	2 2	2	2	3	-6	High	2	2	2 1.25	-7.50		
Loss of CBA and ESA, sections of area classed as moderate and highest biodiversity importance as well as portions of an area classified as a protected area.		Construction	-1	2	. 4	. 4	. 5	Ę	5 -21.25	-1	2	2 2	3	2	2	-4.5	Medium	3	2	2 1.38	-6.19		

## Impact Assessment Calculations

IMPACT	IMPACT DESCRIPTION				PRE	- MITIGATIO	ON					POST	T - MITIGATI	ON						
Impact	Alternative	Phase	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre-mitigation ER	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post-mitigation ER	Confidence	Cumulative Irreplaceable loss	Priority Factor	Final score
Introduction of alien species, especially plants	Alternative 1	Construction	-1	;	3 4	. 4	. 3	3 4	-14	-1	2	2 2	2	2	? 2	-4	High	2	2 1.25	-5.00
Erosion due to storm water runoff and wind	Alternative 1	Construction	-1	;	3	4	. 4	1 4	-14	-1	2	2 3	2	3	3	-7.5	High	2	2 1.25	-9.38
Displacement of faunal community due to habitat loss, direct mortalities and disturbance (road collisions, noise, light, dust, rock chips, vibration and poaching).	Alternative 1	Construction	-1		1 4	. 4	. 4	1 4	-16	-1	2	2 3	2	2	2 3	-6.75	High	2	2 1.25	-8.44
Potential leaks, discharges, pollutant from drilling machines and storage leaching into the surrounding environment	Alternative 1	Construction	-1	;	3 3	4	. 4	1 4	-14	-1	2	2 2	2	2	2	-4	High	2	2 1.25	-5.00
Continued encroachment of an indigenous and EN vegetation community by alien invasive plant species as well as erosion due to disturbed soils	Alternative 1	Decommissio ning	-1	:	33 4	. 4		1 4	-15	-1	2	2 2	2	3	3	-6.75	Medium	2	2 1.25	-8.44
Continued displacement and fragmentation of the faunal community (including threatened or protected species) due to ongoing anthropogenic disturbances (noise, dust and vibrations) and habitat degradation/loss (litter, road mortalities and/or poaching).	Alternative 1	Decommissio ning	-1	,	4 4	. 3	3	1 4	-15	-1	2	2 2	2	3	3	-6.75	Medium	2	2 1.25	-8.44
Erosion due to improper rehabiliation	Alternative 1	Rehab and closure	-1	:	2 3	3	3	3 4	-11	-1	2	2 3	2	3	3	-7.5	Medium	2	2 1.17	-8.75
Pollution of Soils	Alternative 1	Construction	-1		1 1	1	3	3	-4.5	-1	1	1	1	2	2	-2.5	High	1	1 1.00	-2.50
Pollution of Soils	Alternative 1	Decommissio ning	-1		1 1	1	3	3	-4.5	-1	1	1	1	2	2	-2.5	High	1	1 1.00	-2.50