

Kalabatsfontein Project Impact Significance Ratings-Ecology

IMPACT DESCRIPTION	Alternative	Phase	PRE - MITIGATION					POST - MITIGATION					IMPACT PRIORITISATION									
			Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre-mitigation ER	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post-mitigation ER	Confidence	Public response	Cumulative impact	Inreplaceable loss	Priority Factor	Final score
Removal of threatened and protected species	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Loss/ Destruction of Natural Habitats	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Displacement of Faunal Species	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Flora Direct and Indirect Mortality	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Fauna Direct and Indirect Mortality	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Pollution of habitats	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Habitat Fragmentation and Edge Effects	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Blockage of Seasonal and Dispersal Movements	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Loss of primary vegetation communities	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Loss of species sensitive to changes in water quality	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Increase in the occurrence of alien invasive vegetation	Alternative 3	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Removal of threatened and protected species	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Loss/ Destruction of Natural Habitats	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Displacement of Faunal Species	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Flora Direct and Indirect Mortality	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Fauna Direct and Indirect Mortality	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Pollution of habitats	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Habitat Fragmentation and Edge Effects	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Blockage of Seasonal and Dispersal Movements	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Loss of primary vegetation communities	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Loss of species sensitive to changes in water quality	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Increase in the occurrence of alien invasive vegetation	Alternative 3	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Removal of threatened and protected species	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Loss/ Destruction of Natural Habitats	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Displacement of Faunal Species	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Flora Direct and Indirect Mortality	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Fauna Direct and Indirect Mortality	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Pollution of habitats	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Habitat Fragmentation and Edge Effects	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Blockage of Seasonal and Dispersal Movements	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Loss of primary vegetation communities	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Loss of species sensitive to changes in water quality	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Increase in the occurrence of alien invasive vegetation	Alternative 3	Rehab and closure	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4.5	Medium	1	1	1	1.00	-4.50
Removal of threatened and protected species	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Loss/ Destruction of Natural Habitats	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Displacement of Faunal Species	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Flora Direct and Indirect Mortality	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Fauna Direct and Indirect Mortality	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Pollution of habitats	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Habitat Fragmentation and Edge Effects	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Blockage of Seasonal and Dispersal Movements	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Loss of primary vegetation communities	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Loss of species sensitive to changes in water quality	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Increase in the occurrence of alien invasive vegetation	Alternative 2	Construction	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Removal of threatened and protected species	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Loss/ Destruction of Natural Habitats	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Displacement of Faunal Species	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Flora Direct and Indirect Mortality	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Fauna Direct and Indirect Mortality	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Pollution of habitats	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Habitat Fragmentation and Edge Effects	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Blockage of Seasonal and Dispersal Movements	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Loss of primary vegetation communities	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Loss of species sensitive to changes in water quality	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Increase in the occurrence of alien invasive vegetation	Alternative 2	Operation	-1	2	5	4	4	5	-18.75	-1	2	4	4	4	4	-14	Medium	1	1	1	1.00	-14.00
Removal of threatened and protected species	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1.00	0.00
Loss/ Destruction of Natural Habitats	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1.00	0.00
Displacement of Faunal Species	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1.00	0.00
Flora Direct and Indirect Mortality	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1.00	0.00
Fauna Direct and Indirect Mortality	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1.00	0.00
Pollution of habitats	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1.00	0.00
Habitat Fragmentation and Edge Effects	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1.00	0.00
Blockage of Seasonal and Dispersal Movements	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1.00	0.00
Loss of primary vegetation communities	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	0	Medium	1	1	1	1.00	0.00
Loss of species sensitive to changes in water quality	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1								

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Increase in the occurrence of alien invasive vegetation	Alternative 1	Construction	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Removal of threatened and protected species	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Loss/ Destruction of Natural Habitats	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Displacement of Faunal Species	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Flora Direct and Indirect Mortality	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Fauna Direct and Indirect Mortality	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Pollution of habitats	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Habitat Fragmentation and Edge Effects	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Blockage of Seasonal and Dispersal Movements	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Loss of primary vegetation communities	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Loss of species sensitive to changes in water quality	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Increase in the occurrence of alien invasive vegetation	Alternative 1	Operation	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Loss/ Destruction of Natural Habitats	Alternative 1	Rehab and closure	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Displacement of Faunal Species	Alternative 1	Rehab and closure	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Flora Direct and Indirect Mortality	Alternative 1	Rehab and closure	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Fauna Direct and Indirect Mortality	Alternative 1	Rehab and closure	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Pollution of habitats	Alternative 1	Rehab and closure	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Habitat Fragmentation and Edge Effects	Alternative 1	Rehab and closure	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Blockage of Seasonal and Dispersal Movements	Alternative 1	Rehab and closure	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Loss of primary vegetation communities	Alternative 1	Rehab and closure	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Loss of species sensitive to changes in water quality	Alternative 1	Rehab and closure	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00
Increase in the occurrence of alien invasive vegetation	Alternative 1	Rehab and closure	-1	1	1	1	1	1	0	-1	1	1	1	1	1	1	0	Medium	1	1	1	1,00	0,00