IMPACT ASSESSMENT MATRIX

IMPACT DESCRIPTION				PR	E - MI	TIGAT	ION				POS	ST - MI	TIGAT	ION				PRIO	MPAC [*] RITISA			
Impact	Alternative	Project Phase	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre- Mitigation	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	Public	Cumulative Impact	Irreplaceabl	Priority Factor	Final Significance
Air Quality																						
Air Quality: Decline in Ambient Air Quality	Alternative Shaft (Alt 1)	Construction	-1	3	1	3	2	3	-6,75	-1	3	1	2	2	3	-6	Medium	1	1	1	1,00	-6,00
Air Quality: Decline in Ambient Air Quality	Alternative Shaft (Alt 1)	Operation	-1	3	4	3	3	3	-9,75	-1	3	4	2	2	3	- 8,25	Medium	1	1	1	1,00	-8,25
Air Quality: Decline in Ambient Air Quality	Alternative Shaft (Alt 2)	Construction	-1	3	1	3	2	3	-6,75	-1	3	1	2	2	3	-6	Medium	1	1	1	1,00	-6,00
Air Quality: Decline in Ambient Air Quality	Alternative Shaft (Alt 2)	Operation	-1	3	4	3	3	3	-9.75	-1	3	4	2	2	3	- 8,25	Medium	1	1	1	1,00	-8,25
Blasting and vibration	Theer rative share (The 2)	Орегилоп	-		·				3,73	_		·			3	0,23	Wicarain				1,00	0,23
Blasting and vibration: Ground vibration Impact on houses	Underground Mining (Alt 1)	Operation	-1	2	4	1	1	2	-4	-1	2	4	1	1	2	-4	High	1	1	3	1,33	-5,33
Blasting and vibration: Ground vibration Impact on Eskom powerlines, railways, roads and other surface infrastructure	Underground Mining (Alt 1)	Operation	-1	2	4	1	1	2	-4	-1	2	4	1	1	2	-4	High	1	1	1	1,00	-4,00
Blasting and vibration: Air blast Impact on surface infrastructure	Underground Mining (Alt 1)	Operation	-1	2	4	1	1	1	-2	-1	2	4	1	1	1	-2	High	1	1	3	1,33	-2,67
Blasting and vibration: Fly Rock Impact on surface infrastructure	Underground Mining (Alt 1)	Operation	-1	2	4	1	1	1	-2	-1	2	4	1	1	1	-2	High	1	1	2	1,17	-2,33
Blasting and vibration: Vibration from drilling on raise bore for the ventilation shaft	Alternative Shaft (Alt 1)	Construction	-1	2	2	1	1	1	-1,5	-1	2	2	1	1	1	-1,5	High	1	1	3	1,33	-2,00
Blasting and vibration: Vibration from drilling on raise bore for the ventilation shaft	Alternative Shaft (Alt 2)	Construction	-1	2	2	1	1	1	-1,5	-1	2	2	1	1	1	-1,5	High	1	1	3	1,33	-2,00
Groundwater	I																					
Groundwater: Groundwater Quality Deterioration: Stockpiles	Underground Mining (Alt 1)	Operation	-1	3	3	2	2	4	-10	-1	2	2	2	2	3	-6	Medium	1	2	2	1,33	-8,00
Groundwater: Groundwater Altered Hydrogeological Regime (Aquifer Drawdown)	Underground Mining (Alt 1)	Operation	-1	3	4	3	3	4	-13	-1	3	4	2	3	3	-9	Medium	2	2	3	1,67	15,00
Groundwater: Surface Water Contamination	Underground Mining (Alt 1)	Operation	-1	4	3	3	3	4	-13	-1	3	3	3	3	2	-6	Medium	1	2	2	1,33	-8,00
Groundwater: Contamination of Groundwater	Underground Mining (Alt 1)	Operation	-1	3	4	3	4	4	-14	-1	3	3	3	3	3	-9	Medium	1	2	2	1,33	12,00
Groundwater: Contaminated groundwater seepage to streams (salt load) from Rehabilitated surface areas - Discard, Plant, PCDs, etc	Underground Mining (Alt 1)	Rehab and closure	-1	4	4	3	3	3	-10,5	-1	3	4	2	2	2	-5,5	High	1	1	1	1,00	-5,50
Groundwater: Contamination of streams due to mine decant and weathered aquifer seepage from old mine workings	Underground Mining (Alt 1)	Rehab and closure	-1	4	4	3	4	3	- 11,25	-1	4	4	2	4	2	-7	Medium	2	2	2	1,50	- 10,50
Groundwater: Contamination of farm boreholes due to mine decant and weathered aquifer seepage from old mine workings	Underground Mining (Alt 1)	Rehab and closure	-1	3	4	3	5	3	11,25	-1	3	4	2	5	2	-7	Medium	2	2	2	1,50	10,50
Soil																						
Soil: Degradation and/or loss of soil resources	Alternative Shaft (Alt 1)	Planning	-1	2	1	1	1	1	-1,25	-1	1	2	1	1	1	- 1,25	Medium	2	1	2	1,33	-1,67
Soil: Degradation and/or loss of soil resources	Alternative Shaft (Alt 1)	Construction	-1	4	4	4	4	5	-20	-1	3	3	3	3	4	-12	Medium	2	1	2	1,33	16,00
Soil: Degradation and/or loss of soil resources	Alternative Shaft (Alt 1)	Operation	-1	3	4	3	3	4	-13	-1	2	4	2	2	3	-7,5	High	2	1	2	1,33	10,00
Soil: Degradation and/or loss of soil resources	Alternative Shaft (Alt 1)	Decommissioning	-1	3	2	3	3	4	-11	-1	3	2	2	3	4	-10	High	2	1	2	1,33	13,33
Soil: Degradation and/or loss of soil resources	Alternative Shaft (Alt 1)	Rehab and closure	-1	3	4	3	4	3	-10,5	-1	2	3	1	1	2	-3,5	High	2	1	2	1,33	-4,67
Soil: Degradation and/or loss of soil resources	Alternative Shaft (Alt 2)	Planning	-1	2	1	1	1	1	-1,25	-1	1	2	1	1	1	- 1,25	High	2	1	2	1,33	-1,67
Soil: Degradation and/or loss of soil resources	Alternative Shaft (Alt 2)	Construction	-1	4	5	4	5	5	-22,5	-1	3	3	4	4	4	-14	High	2	1	2	1,33	18,67
Soil: Degradation and/or loss of soil resources	Alternative Shaft (Alt 2)	Operation	-1	3	4	4	3	4	-14	-1	2	4	3	3	4	-12	High	2	1	2	1,33	16,00

IMPACT DESCRIPTION				DD	E - MI	TIGAT	ION				PO	ST - M	ITIGAT	ION					IMPAC [*] ORITISA			
IIVII ACI BESCRII IION			Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre- Mitigation	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	Public	Cumulative Impact		Priority Factor	Final Significance
Impact	Alternative	Project Phase	Z	û	Δ	2	ď	۵	_	Z	l û	Δ	2	Ř	Ā	ے ک	0	<u> </u>	0 9	= 0	- K	iE iS
Soil: Degradation and/or loss of soil resources	Alternative Shaft (Alt 2)	Decommissioning	-1	3	2	4	3	4	-12	-1	3	2	3	3	4	-11	High	2	1	2	1,33	14,67
Soil: Degradation and/or loss of soil resources	Alternative Shaft (Alt 2)	Rehab and closure	-1	3	4	3	4	3	-10,5	-1	2	3	1	1	2	-3,5	High	2	1	2	1,33	-4,67
Soil: Degradation and/or loss of soil resources	Powerline (Alt 1)	Planning	-1	2	1	1	1	1	-1,25	-1	1	2	1	1	1	- 1,25	Medium	1	1	1	1,00	-1,25
Soil: Degradation and/or loss of soil resources	Powerline (Alt 1)	Construction	-1	4	2	4	3	4	-13	-1	3	4	3	3	3	9,75	High	1	1	1	1,00	-9,75
Soil: Degradation and/or loss of soil resources	Powerline (Alt 1)	Operation	-1	1	4	2	3	2	-5	-1	1	4	2	3	2	-5	High	1	1	1	1,00	-5,00
Soil: Degradation and/or loss of soil resources	Powerline (Alt 1)	Decommissioning	-1	2	2	3	3	3	-7,5	-1	2	2	3	3	3	-7,5	High	1	1	1	1,00	-7,50
Soil: Degradation and/or loss of soil resources	Powerline (Alt 1)	Rehab and closure	-1	3	4	3	3	3	-9,75	-1	2	3	1	1	2	-3,5	Medium	1	1	1	1,00	-3,50
Soil: Degradation and/or loss of soil resources	Powerline (Alt 2)	Planning	-1	2	1	1	1	1	-1,25	-1	1	2	1	1	1	- 1,25	Medium	1	1	1	1,00	-1,25
Soil: Degradation and/or loss of soil resources	Powerline (Alt 2)	Construction	-1	4	2	4	3	4	-13	-1	3	4	3	3	3	9,75	High	1	1	1	1,00	-9,75
Soil: Degradation and/or loss of soil resources	Powerline (Alt 2)	Operation	-1	1	4	2	3	2	-5	-1	1	4	2	3	2	-5	High	1	1	1	1,00	-5,00
Soil: Degradation and/or loss of soil resources	Powerline (Alt 2)	Decommissioning	-1	2	2	3	3	3	-7,5	-1	2	2	3	3	3	-7,5	High	1	1	1	1,00	-7,50
Soil: Degradation and/or loss of soil resources	Powerline (Alt 2)	Rehab and closure	-1	3	4	3	3	3	-9,75	-1	2	3	1	1	2	-3,5	Medium	1	1	1	1,00	-3,50
Soil: Degradation and/or loss of soil resources	Underground Mining (Alt 1)	Planning	-1	2	1	1	1	1	-1,25	-1	1	2	1	1	1	- 1,25	Medium	1	1	1	1,00	-1,25
Soil: Degradation and/or loss of soil resources	Underground Mining (Alt 1)	Construction	-1	3	4	3	3	3	-9,75	-1	3	4	3	3	3	- 9,75	High	1	1	1	1,00	-9,75
Soil: Degradation and/or loss of soil resources	Underground Mining (Alt 1)	Operation	-1	3	4	3	3	3	-9,75	-1	3	4	3	3	3	- 9,75	High	1	1	1	1,00	-9,75
Soil: Degradation and/or loss of soil resources	Underground Mining (Alt 1)	Decommissioning	-1	3	4	4	3	3	-10,5	-1	3	4	3	3	3	9,75	High	1	1	1	1,00	-9,75
Soil: Degradation and/or loss of soil resources	Underground Mining (Alt 1)	Rehab and closure	-1	2	2	4	4	4	-12	-1	1	2	1	1	1	- 1,25	Medium	1	1	1	1,00	-1,25
Hydropedological services																						
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Alternative Shaft (Alt 1)	Planning	-1	1	1	1	1	1	-1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Alternative Shaft (Alt 1)	Construction	-1	2	3	2	2	4	-9	-1	2	2	2	2	3	-6	High	1	1	1	1,00	-6,00
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Alternative Shaft (Alt 1)			2	3	2	2	4	-9	1	1 2	2	2	2	2	1	High	1	1	1		
Hydropedological services: Loss / degradation of hydropedological drivers to		Operation	-1	2		2				1	2	2		2		4		1	1		1,00	4,00
Wetlands Hydropedological services: Loss / degradation of hydropedological drivers to	Alternative Shaft (Alt 1)	Decommissioning Rehab and	-1	2	2	2	2	2	-4	1	2	2	2	2	2	4	High	1	1	1	1,00	4,00
wetlands	Alternative Shaft (Alt 1)	closure	-1	2	2	2	2	2	-4	1	1	1	1	2	2	2,5	High	1	1	1	1,00	2,50
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Alternative Shaft (Alt 2)	Planning	-1	1	1	1	1	1	-1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Alternative Shaft (Alt 2)	Construction	-1	2	3	2	2	4	-9	-1	2	2	2	2	3	-6	High	1	1	1	1,00	-6,00
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Alternative Shaft (Alt 2)	Operation	-1	2	3	2	2	4	-9	-1	2	2	2	2	3	-6	High	1	1	1	1,00	-6,00
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Alternative Shaft (Alt 2)	Decommissioning	-1	2	2	2	2	2	-4	1	2	2	2	2	2	4	High	1	1	1	1,00	4,00
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Alternative Shaft (Alt 2)	Rehab and closure	-1	2	2	2	2	2	-4	1	1	1	1	2	2	2,5	High	1	1	1	1,00	2,50
	Anternative Share (Alt 2)	1000010															ייסייי ו				,00	2,30

IMPACT DESCRIPTION				PR	E - MI	TIGAT	ION				POS	ST - MI	TIGAT	ION					IMPAC ORITISA			
			Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre- Mitigation	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	Public	Cumulative	Irreplaceabl	Priority Factor	Final Significance
Hydropedological services: Loss / degradation of hydropedological drivers to	Alternative	Project Phase	_			_	-	-	L 2				_	ш.	<u> </u>	u 2		<u> </u>				
wetlands	Underground Mining (Alt 1)	Planning	-1	2	2	3	3	3	-7,5	1	1	1	1	2	2	2,5	High	1	1	2	1,17	2,92
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Underground Mining (Alt 1)	Operation	-1	2	2	3	3	2	-5	-1	1	1	1	2	2	-2,5	High	1	1	1	1,00	-2,50
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Underground Mining (Alt 1)	Decommissioning	-1	2	2	2	2	2	-4	1	1	1	2	2	2	3	High	1	1	1	1,00	3,00
Hydropedological services: Loss / degradation of hydropedological drivers to wetlands	Underground Mining (Alt 1)	Rehab and closure	-1	2	2	2	2	2	-4	1	1	1	2	2	1	1,5	High	1	1	1	1,00	1,50
Traffic:																						
Traffic: Road Traffic Safety	Underground Mining (Alt 1)	Construction	-1	4	2	3	5	4	-14	-1	3	1	1	1	2	-3	High	1	1	1	1,00	-3,00
Traffic: Road Traffic Safety	Underground Mining (Alt 1)	Operation	-1	4	4	5	5	5	-22,5	-1	3	3	2	2	2	-5	High	1	2	2	1,33	-6,67
Traffic: Road Traffic Safety	Underground Mining (Alt 1)	Rehab and closure	-1	4	5	5	5	5	23.75	-1	2	4	3	2	2	-5,5	High	1	3	3	1,67	-9,17
Heritage and Palaeontology		0.000.0	_						23,70		_		-			5,5	6				2,0:	3,1.
Heritage and Paleontological: Destruction of heritage Structures	Powerline (Alt 1)	Construction	-1	2	4	2	5	2	-6,5	-1	1	4	2	5	1	-3	Medium	1	2	3	1,50	-4,50
Heritage and Paleontological: Loss of fossil heritage	Alternative Shaft (Alt 1)	Construction	-1	2	4	4	5	2	-7,5	-1	2	4	2	5	1	- 3,25	Medium	1	2	3	1,50	
Heritage and Paleontological: Loss of fossil heritage	Alternative Shaft (Alt 2)	Construction	-1	2	4	4	5	2	-7,5	-1	2	4	2	5	1	3,25	Medium	1	2	3	1,50	-4,88
Heritage and Paleontological: Loss of fossil heritage	Underground Mining (Alt 1)	Operation	-1	2	4	4	5	2	-7,5	-1	2	4	2	5	1	3,25	Medium	1	2	3	1,50	-4,88
Heritage and Paleontological: Impact on burial grounds	Powerline (Alt 1)	Construction	-1	2	4	5	5	1	-4	-1	1	4	2	5	1	-3	Medium	1	2	3	1,50	-4,50
Socio-economic																						
Socio-economic: Safety and Security (i.e. access to properties, theft, fire hazards, etc	Underground Mining (Alt 1)	Planning	-1	2	2	1	1	3	-4,5	-1	2	2	2	1	2	-3,5	Medium	1	1	1	1,00	-3,50
Socio-economic: Safety and Security (i.e. access to properties, theft, fire hazards, etc	Underground Mining (Alt 1)	Operation	-1	2	3	3	2	3	-7,5	-1	2	2	2	3	2	-4,5	Medium	1	1	1	1,00	-4,50
Socio-economic: Safety and Security (i.e. access to properties, theft, fire hazards, etc	Underground Mining (Alt 1)	Rehab and closure	-1	2	2	2	2	2	-4	-1	1	2	2	2	2	-3,5	Medium	1	1	1	1,00	-3,50
Socio-economic: Safety and Security (i.e. access to properties, theft, fire hazards, etc	Underground Mining (Alt 1)	Decommissioning	-1	2	2	2	2	2	-4	-1	1	2	2	2	2	-3,5	Medium	1	1	1	1,00	-3,50
Socio-economic: Impact on Existing Infrastructure (i.e. roads, fences, etc.)	Underground Mining (Alt 1)	Planning	-1	2	2	1	2	3	-5,25	-1	2	2	2	2	2	-4	Medium	1	1	1	1,00	-4,00
Socio-economic: Impact on Existing Infrastructure (i.e. roads, fences, etc.)	Underground Mining (Alt 1)	Construction	-1	2	2	3	2	3	-6,75	-1	2	2	2	2	2	-4	Medium	1	1	1	1,00	-4,00
Socio-economic: Impact on Existing Infrastructure (i.e. roads, fences, etc.)	Underground Mining (Alt 1)	Rehab and closure	-1	2	2	3	2	3	-6,75	-1	2	2	2	3	2	-4,5	Medium	1	1	1	1,00	-4,50
Socio-economic: Impact on Existing Infrastructure (i.e. roads, fences, etc.)	Underground Mining (Alt 1)	Operation	-1	2	2	2	2	2	-4	-1	2	2	2	2	2	-4	Medium	1	1	1	1,00	-4,00
Socio-economic: Impact on Existing Infrastructure (i.e. roads, fences, etc.)	Underground Mining (Alt 1)	Decommissioning	-1	2	2	3	2	3	-6,75	-1	2	2	2	2	2	-4	Medium	1	1	1	1,00	-4,00
Socio-economic: Inability of the community to capture economic benefits & managing expectation	Underground Mining (Alt 1)	Planning	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4,5	Medium	1	1	1	1,00	-4,50
Socio-economic: Inability of the community to capture economic benefits & managing expectation	Underground Mining (Alt 1)	Construction	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4,5	Medium	1	1	1	1,00	-4,50
Socio- economic: Inability of the community to capture economic benefits & managing expectation	Underground Mining (Alt 1)	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

IMPACT DESCRIPTION				PR	E - MI	TIGAT	ION				PO	ST - M	ITIGAT	ION					MPAC'			
			Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre- Mitigation	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	Public	Cumulative Impact	Irreplaceabl	Priority Factor	Final Significance
Impact	Alternative	Project Phase	2	Ш		2	<u>~</u>	_	۵ 2	Z	ш		2	~	Δ.	2 ک		Д.,	0 1			. LL S
Socio-economic: Inability of the community to capture economic benefits & managing expectation	Underground Mining (Alt 1)	Operation	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4,5	Medium	1	1	1	1,00	-4,50
Socio-economic: Inability of the community to capture economic benefits & managing expectation	Underground Mining (Alt 1)	Decommissioning	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4,5	Medium	1	1	1	1,00	-4,50
Socio-economic: Employment Opportunities	Underground Mining (Alt 1)	Construction	1	2	3	3	3	4	11	1	2	3	4	3	4	12	Medium	3	1	1	1,33	16,00
Socio-economic: Employment Opportunities	Underground Mining (Alt 1)	Operation	1	2	3	3	3	4	11	1	2	3	4	3	4	12	Medium	3	1	1	1,33	16,00
Socio-economic: Employment Opportunities	Underground Mining (Alt 1)	Decommissioning	-1	2	3	4	3	4	-12	-1	2	2	2	3	2	-4,5	Medium	1	1	1	1,00	-4,50
Socio-economic: Employment Opportunities	Underground Mining (Alt 1)	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
Wetland	1							_														
Wetland: Loss / degradation of wetland habitat	Alternative Shaft (Alt 1)	Planning	-1	2	2	3	3	3	-7,5	1	1	1	1	2	2	2,5	High	1	1	2	1,17	2,92
Wetland: Loss / degradation of wetland habitat	Alternative Shaft (Alt 1)	Construction	-1	3	3	3	3	4	-12	-1	1	1	1	1	2	-2	High	1	1	2	1,17	-2,33
Wetland: Loss / degradation of wetland habitat	Alternative Shaft (Alt 1)	Operation	-1	3	3	3	3	4	-12	-1	2	3	2	2	2	-4,5	High	1	1	2	1,17	-5,25
Wetland: Loss / degradation of wetland habitat	Alternative Shaft (Alt 1)	Decommissioning	-1	2	5	2	2	3	-8,25	-1	2	3	2	2	2	-4,5	High	1	1	2	1,17	-5,25
Wetland: Loss / degradation of wetland habitat	Alternative Shaft (Alt 1)	Rehab and closure	-1	2	3	3	3	3	-8,25	1	1	1	1	2	2	2,5	High	1	1	2	1,17	2,92
Wetland: Loss / degradation of wetland habitat	Alternative Shaft (Alt 2)	Planning	-1	2	2	3	3	3	-7,5	1	1	1	1	2	2	2,5	High	1	1	2	1,17	2,92
Wetland: Loss / degradation of wetland habitat	Alternative Shaft (Alt 2)	Construction	-1	3	3	3	3	4	-12	-1	1	1	1	1	2	-2	High	1	1	2	1,17	-2,33
Wetland: Loss / degradation of wetland habitat	Alternative Shaft (Alt 2)	Operation	-1	3	3	3	3	4	-12	-1	2	3	2	2	2	-4,5	High	1	1	2	1,17	-5,25
Wetland: Loss / degradation of wetland habitat	Alternative Shaft (Alt 2)	Decommissioning	-1	2	5	2	2	3	-8,25	-1	2	3	2	2	2	-4,5	High	1	1	2	1,17	-5,25
Wetland: Loss / degradation of wetland habitat	Alternative Shaft (Alt 2)	Rehab and closure	-1	2	3	3	3	3	-8,25	1	1	1	1	2	2	2,5	High	1	1	2	1,17	2,92
Wetland: Loss / degradation of wetland habitat	Powerline (Alt 1)	Planning	-1	2	2	3	3	3	-7,5	-1	1	1	1	2	2	-2,5	High	1	1	2	1,17	-2,92
Wetland: Loss / degradation of wetland habitat	Powerline (Alt 1)	Construction	-1	3	3	3	3	4	-12	-1	1	1	1	2	2	-2,5	High	1	1	2	1,17	-2,92
Wetland: Loss / degradation of wetland habitat	Powerline (Alt 2)	Planning	-1	2	2	3	3	3	-7,5	-1	1	1	1	2	2	-2,5	High	1	1	2	1,17	-2,92
Wetland: Loss / degradation of wetland habitat	Powerline (Alt 2)	Construction	-1	3	3	3	3	4	-12	-1	1	1	1	2	2	-2,5	High	1	1	1	1,00	-2,50
Wetland: Loss / degradation of wetland habitat	Underground Mining (Alt 1)	Planning	-1	2	2	3	3	3	-7,5	1	1	1	1	2	2	2,5	High	1	1	2	1,17	2,92
Wetland: Loss / degradation of wetland habitat	Underground Mining (Alt 1)	Construction	-1	2	4	4	4	1	-3,5		1	4	2	3	1	-2,5	High	1	1	2	1,17	-2,92
Wetland: Loss / degradation of wetland habitat	Underground Mining (Alt 1)	Operation	-1	2	2	3	3	3	-7,5	-1	1	4	2	3	1	-2,5	High	1	1	2	1,17	-2,92
Wetland: Loss / degradation of wetland habitat	Underground Mining (Alt 1)	Decommissioning	-1	2	2	3	3	3	-7,5	-1	1	4	2	3	1	-2,5	High	1	1	2	1,17	-2,92
Wetland: Loss / degradation of wetland habitat	Underground Mining (Alt 1)	Rehab and closure	-1	2	2	3	3	3	-7,5	1	1	1	1	2	2	2,5	High	1	1	2	1,17	
Noise																						
Noise: Increase in noise levels at surrounding receptors due to construction activities in the day	Alternative Shaft (Alt 1)	Construction	-1	3	2	1	1	1	-1,75	-1	3	2	1	1	1	- 1,75	High	1	2	1	1,17	-2,04
Noise: Increase in noise levels at surrounding receptors due to construction activities in the day	Alternative Shaft (Alt 2)	Construction	-1	3	2	1	1	1	-1,75	-1	3	2	1	1	1	- 1,75	High	1	2	1	1,17	-2,04
Noise: Increase in noise levels at surrounding receptors due to operation of ventilation fans in the day	Alternative Shaft (Alt 1)	Operation	-1	3	4	1	1	1	-2,25			4	1	1	1	2,25	High	1	2	1	1,17	
Noise: Increase in noise levels at surrounding receptors due to operation of ventilation fans in the day	Alternative Shaft (Alt 2)	Operation	-1	3	4	1	1	1	-2,25	-1	3	4	1	1	1	- 2,25	High	1	2	1	1,17	-2,63
Noise: Increase in noise levels at surrounding receptors due to construction activities at night	Alternative Shaft (Alt 1)	Construction	-1	3	2	3	1	2	-4,5	-1	3	2	3	1	2	-4,5	High	1	2	1	1,17	-5,25
Noise: Increase in noise levels at surrounding receptors due to construction activities at night	Alternative Shaft (Alt 2)	Construction	-1	3	2	3	1	2	-4,5	-1	3	2	3	1	2	-4,5	High	1	2	1	1,17	-5,25

IMPACT DESCRIPTION				PR	E - MI	TIGATI	ION				POS	T - MI	TIGATI	ON					IMPAC ORITISA			
Impact	Alternative	Project Phase	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre- Mitigation	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	Public	ative	Irreplaceabl	Priority Factor	Final Significance
Noise: Increase in noise levels at surrounding receptors due to operational mining																-						
activities at night	Alternative Shaft (Alt 1)	Operation	-1	3	4	1	1	1	-2,25	-1	3	4	1	1	1	2,25	High	1	2	1	1,17	-2,63
Noise: Increase in noise levels at surrounding receptors due to operation of ventilation fans at night	Alternative Shaft (Alt 2)	Operation	-1	3	4	3	1	2	-5,5	-1	3	4	3	1	2	-5,5	High	1	2	1	1,17	-6,42
Hydrology																						
Hydrology: Erosion of soils	Alternative Shaft (Alt 1)	Construction	-1	3	4	2	2	4	-11	-1	1	1	1	2	2	-2,5	Medium	1	1	1	1,00	-2,50
Hydrology: Erosion of soils	Alternative Shaft (Alt 1)	Operation	-1	3	4	2	2	3	-8,25	-1	1	1	1	2	2	-2,5	Medium	1	1	1	1,00	-2,50
Hydrology: Erosion of soils	Alternative Shaft (Alt 1)	Decommissioning	-1	3	4	2	2	4	-11	-1	1	1	1	2	2	-2,5	Medium	1	1	1	1,00	-2,50
Hydrology: Erosion of soils	Alternative Shaft (Alt 1)	Rehab and closure	-1	3	4	2	2	3	-8,25	-1	1	1	1	2	2	-2,5	Medium	1	1	1	1,00	-2,50
Hydrology: Pollutants entering the surface water environment	Alternative Shaft (Alt 1)	Construction	-1	4	4	2	2	3	-9	-1	3	1	1	2	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Pollutants entering the surface water environment	Alternative Shaft (Alt 1)	Operation	-1	4	4	4	2	3	-10,5	-1	3	1	1	2	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Pollutants entering the surface water environment	Alternative Shaft (Alt 1)	Decommissioning	-1	4	4	2	2	3	-9	-1	3	1	1	2	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Pollutants entering the surface water environment	Alternative Shaft (Alt 1)	Rehab and closure	-1	4	4	2	2	3	-9	-1	3	1	1	2	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Increase in runoff water	Alternative Shaft (Alt 1)	Construction	-1	1	3	1	2	3	-5,25	-1	1	3	1	2	2	-3,5	High	1	1	1	1,00	-3,50
Hydrology: Increase in runoff water	Alternative Shaft (Alt 1)	Operation	-1	1	4	1	2	3	-6	-1	1	4	1	2	3	-6	High	1	1	1	1,00	-6,00
Hydrology: Increase in runoff water	Alternative Shaft (Alt 1)	Decommissioning	-1	1	3	1	2	3	-5,25	-1	1	3	1	2	2	-3,5	High	1	1	1	1,00	-3,50
Hydrology: Increase in runoff water	Alternative Shaft (Alt 1)	Rehab and closure	-1	1	2	1	2	3	-4,5	-1	1	2	1	2	2	-3	High	1	1	1	1,00	-3,00
Hydrology: Potential Flooding (River and Surface water)	Alternative Shaft (Alt 1)	Construction	-1	1	1	4	3	2	-4,5	-1	1	1	2	3	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Potential Flooding (River and Surface water)	Alternative Shaft (Alt 1)	Operation	-1	1	1	4	3	2	-4,5	-1	1	1	2	3	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Potential Flooding (River and Surface water)	Alternative Shaft (Alt 1)	Decommissioning	-1	1	1	4	3	2	-4,5	-1	1	1	2	3	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Erosion of soils	Alternative Shaft (Alt 2)	Construction	-1	3	4	2	2	4	-11	-1	1	1	1	2	2	-2,5	Medium	1	1	1	1,00	
Hydrology: Erosion of soils	Alternative Shaft (Alt 2)	Operation	-1	3	4	2	2	3	-8,25	-1	1	1	1	2	2	-2,5	Medium	1	1	1	1,00	-2,50
Hydrology: Erosion of soils	Alternative Shaft (Alt 2)	Decommissioning	-1	3	4	2	2	4	-11	-1	1	1	1	2	2	-2,5	Medium	1	1	1	1,00	-2,50
Hydrology: Erosion of soils	Alternative Shaft (Alt 2)	Rehab and closure	-1	3	4	2	2	3	-8,25	-1	1	1	1	2	2	-2,5	Medium	1	1	1	1,00	-2,50
Hydrology: Pollutants entering the surface water environment	Alternative Shaft (Alt 2)	Construction	-1	4	4	2	2	3	-9	-1	3	1	1	2	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Pollutants entering the surface water environment	Alternative Shaft (Alt 2)	Operation	-1	4	4	4	2	3	-10,5	-1	3	1	1	2	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Pollutants entering the surface water environment	Alternative Shaft (Alt 2)	Decommissioning	-1	4	4	2	2	3	-9	-1	3	1	1	2	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Pollutants entering the surface water environment	Alternative Shaft (Alt 2)	Rehab and closure	-1	4	4	2	2	3	-9	-1	3	1	1	2	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Increase in runoff water	Alternative Shaft (Alt 2)	Construction	-1	1	3	1	2	3	-5,25	-1	1	3	1	2	2	-3,5	High	1	1	1	1,00	-3,50
Hydrology: Increase in runoff water	Alternative Shaft (Alt 2)	Operation	-1	1	4	1	2	3	-6	-1	1	4	1	2	3	-6	High	1	1	1	1,00	-6,00
Hydrology: Increase in runoff water	Alternative Shaft (Alt 2)	Decommissioning	-1	1	3	1	2	3	-5,25	-1	1	3	1	2	2	-3,5	High	1	1	1	1,00	-3,50
Hydrology: Increase in runoff water	Alternative Shaft (Alt 2)	Rehab and closure	-1	1	2	1	2	3	-4,5	-1	1	2	1	2	2	-3	High	1	1	1	1,00	-3,00
Hydrology: Decrease in runoff and/or stream flow	Alternative Shaft (Alt 1)	Construction	-1	4	5	4	5	2	-9	-1	4	5	4	3	1	-4	Low	1	2	1	1,17	-4,67

IMPACT DESCRIPTION				PR	E - MI	ITIGAT	TION				PO	ST - M	ITIGAT	ION					MPAC RITIS <i>A</i>			
			Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre- Mitigation	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	Public	Cumulative	Irreplaceabl	Priority Factor	Final Significance
Impact	Alternative	Project Phase	Z	û	Δ	≥	ž	٦	ے ≥	Z	û	۵	Σ	ž	<u>-</u>	∝ ≥	0	٦	<u>ت</u> ت	<u> </u>	<u> </u>	iE iS
Hydrology: Decrease in runoff and/or stream flow	Alternative Shaft (Alt 1)	Operation	-1	4	5	4	5	2	-9	-1	4	5	4	3	1	-4	Low	1	2	1	1,17	-4,67
Hydrology: Decrease in runoff and/or stream flow	Alternative Shaft (Alt 1)	Decommissioning	-1	4	5	4	5	2	-9	-1	4	5	4	3	1	-4	Low	1	2	1	1,17	-4,67
Hydrology: Decrease in runoff and/or stream flow	Alternative Shaft (Alt 1)	Rehab and closure	-1	4	5	4	5	2	-9	-1	4	5	4	3	1	-4	Low	1	2	1	1,17	-4,67
Hydrology: Decrease in runoff and/or stream flow	Alternative Shaft (Alt 2)	Construction	-1	4	5	4	5	2	-9	-1	4	5	4	3	1	-4	Low	1	2	1	1,17	-4,67
Hydrology: Decrease in runoff and/or stream flow	Alternative Shaft (Alt 2)	Operation	-1	4	5	4	5	2	-9	-1	4	5	4	3	1	-4	Low	1	2	1	1,17	-4,67
Hydrology: Decrease in runoff and/or stream flow	Alternative Shaft (Alt 2)	Decommissioning	-1	4	5	4	5	2	-9	-1	4	5	4	3	1	-4	Low	1	2	1	1,17	-4,67
Hydrology: Decrease in runoff and/or stream flow	Alternative Shaft (Alt 2)	Rehab and closure	-1	4	5	4	5	2	-9	-1	4	5	4	3	1	-4	Low	1	2	1	1,17	-4,67
Hydrology: Potential Flooding (River and Surface water)	Alternative Shaft (Alt 2)	Construction	-1	1	1	4	3	2	-4,5	-1	1	1	2	3	1	1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Potential Flooding (River and Surface water)	Alternative Shaft (Alt 2)	Operation	-1	1	1	4	3	2	-4,5	-1	1	1	2	3	1	- 1,75	Medium	1	1	1	1,00	-1,75
Hydrology: Potential Flooding (River and Surface water)	Alternative Shaft (Alt 2)	Decommissioning	-1	1	1	4	3	2	-4,5	-1	1	1	2	3	1	- 1,75	Medium	1	1	1	1,00	-1,75
Ecology																						
Ecology: Temporary disturbance of wildlife due to increased human presence and possible use of machinery and/or vehicles	Underground Mining (Alt 1)	Planning	-1	3	4	3	3	3	-9,75	-1	3	3	2	3	2	-5,5	Medium	1	1	1	1,00	-5,50
Ecology: Temporary disturbance of wildlife due to increased human presence and possible use of machinery and/or vehicles	Powerline (Alt 1)	Planning	-1	3	4	3	3	3	-9,75	-1	3	3	2	3	2	-5,5	Medium	1	1	1	1,00	-5,50
Ecology: Temporary disturbance of wildlife due to increased human presence and possible use of machinery and/or vehicles	Powerline (Alt 2)	Planning	-1	3	4	3	3	3	-9,75	-1	3	3	2	3	2	-5,5	Medium	1	1	1	1,00	-5,50
Ecology: Temporary disturbance of wildlife due to increased human presence and possible use of machinery and/or vehicles	Alternative Shaft (Alt 1)	Planning	-1	3	4	3	3	3	-9,75	-1	3	3	2	3	2	-5,5	Medium	1	1	1	1,00	-5,50
Ecology: Temporary disturbance of wildlife due to increased human presence and possible use of machinery and/or vehicles	Alternative Shaft (Alt 2)	Planning	-1	3	4	3	3	3	-9,75	-1	3	3	2	3	2	-5,5	Medium	1	1	1	1,00	-5,50
Ecology: Loss and fragmentation of the vegetation community as well the destruction of a portion of an Endangered vegetation type (NBA, 2012).	Alternative Shaft (Alt 2)	Construction	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	High	1	1	1	1,00	-9,00
Ecology: Loss of important Irreplaceable Critical Biodiversity Areas, Ecological Support Areas and Other Natural Areas (MTPA, 2014).	Alternative Shaft (Alt 2)	Construction	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	High	1	1	1	1,00	-9,00
Ecology: Displacement, direct mortalities and disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Alternative Shaft (Alt 2)	Construction	-1	2	5	4	2	3		-1	2	3	2	2	4	-9	High	1	1	1	1,00	
Ecology: Loss and fragmentation of the vegetation community as well the destruction of a portion of an Endangered vegetation type (NBA, 2012).	Alternative Shaft (Alt 1)	Construction	-1	3	5	4	4	3	-12	-1	2	3	2	3	4	-10	High	1	1	1	1,00	10,00
Ecology: Displacement, direct mortalities and disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Alternative Shaft (Alt 1)	Construction	-1	3	5	4	4	3	-12	-1	2	3	2	3	4	-10	High	1	1	1	1,00	- 10,00

IMPACT DESCRIPTION				DD	E BAT	TICAT	ION				D.C.	ST NA	ITICAT	ION:					IMPAC ORITISA			
IMPACT DESCRIPTION				PR	E - MI						10	ST - M					j	PRIC				بو
			ē	±	tion	Magnitude	Reversibility	Probability	Pre- Mitigation	e.	±	tion	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	2	Cumulative	Irreplaceabl	ity r	Final Significance
Impact	Alternative	Project Phase	Nature	Extent	Duration	Magı	Reve	Prob	Pre- Mitig	Nature	Extent	Duration	Magı	Reve	Prob	Post- Mitig	Conf	Public	Cumi	Irrep	Priority Factor	Final
Impact	Aitemative	Project Pilase																				
Ecology: Loss of important Irreplaceable Critical Biodiversity Areas, Ecological																						_
Support Areas and Other Natural Areas (MTPA, 2014).	Alternative Shaft (Alt 1)	Construction	-1	3	5	4	4	3	-12	-1	2	3	2	3	4	-10	High	1	1	1	1,00	10,00
Ecology: Loss and fragmentation of the vegetation community as well the									_													_
destruction of a portion of an Endangered vegetation type (NBA, 2012).	Powerline (Alt 1)	Construction	-1	3	5	4	3	3	11,25	-1	2	3	2	3	4	-10	High	1	1	1	1,00	10,00
Ecology: Loss of important Irreplaceable Critical Biodiversity Areas, Ecological									_													_
Support Areas and Other Natural Areas (MTPA, 2014).	Powerline (Alt 1)	Construction	-1	3	5	4	3	3	11,25	-1	2	3	2	3	4	-10	High	1	1	1	1,00	10,00
Ecology: Displacement, direct mortalities and disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances (such									_													_
as dust and noise).	Powerline (Alt 1)	Construction	-1	3	5	4	3	3	11,25	-1	2	3	2	3	4	-10	High	1	1	1	1,00	10,00
Ecology: Loss and fragmentation of the vegetation community as well the																						
destruction of a portion of an Endangered vegetation type (NBA, 2012).	Powerline (Alt 2)	Construction	-1	2	5	3	2	3	-9	-1	1	2	2	2	4	-7	Medium	1	1	1	1,00	-7,00
Ecology: Loss of important Irreplaceable Critical Biodiversity Areas, Ecological Support Areas and Other Natural Areas (MTPA, 2014).	Powerline (Alt 2)	Construction	-1	2	5	3	2	3	-9	-1	1	2	2	2	4	-7	Medium	1	1	1	1,00	-7,00
Ecology: Displacement, direct mortalities and disturbance of faunal community																						
(including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Powerline (Alt 2)	Construction	-1	2	5	3	2	3	-9	-1	1	2	2	2	4	-7	Medium	1	1	1	1,00	-7,00
Ecology: Further loss and fragmentation of the vegetation community and spread																						
and/or establishment of alien and/or invasive species. Ecology: Displacement, direct mortalities and disturbance of faunal community	Alternative Shaft (Alt 2)	Operation	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	Medium	1	1	1	1,00	-9,00
(including multiple threatened species) due to habitat loss and disturbances (such																						
as dust and noise).	Alternative Shaft (Alt 2)	Operation	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	Medium	1	1	1	1,00	-9,00
Ecology: Infringement by humans into the few remaining natural grassland and wetlands areas, with associated impacts such as poaching, litter and introduction of																						
diseases.	Alternative Shaft (Alt 2)	Operation	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	Medium	1	1	1	1,00	-9,00
Ecology: Further loss and fragmentation of the vegetation community and spread and/or establishment of alien and/or invasive species.	Alternative Shaft (Alt 1)	Operation	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	Medium	1	1	1	1,00	-9,00
Ecology: Displacement, direct mortalities and disturbance of faunal community																						
(including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Alternative Shaft (Alt 1)	Operation	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	Medium	1	1	1	1,00	-9,00
Ecology: Infringement by humans into the few remaining natural grassland and wetlands areas, with associated impacts such as poaching, litter and introduction of																						
diseases.	Alternative Shaft (Alt 1)	Operation	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	Medium	1	1	1	1,00	-9,00
Ecology: Displacement, direct mortalities and disturbance of faunal community																						
(including multiple threatened species) due to habitat loss and disturbances (such																						
as dust and noise).	Powerline (Alt 1)	Operation	-1	3	5	4	4	4	-16	-1	2	2	2	2	4	-8	Medium	1	1	1	1,00	-8,00
Ecology:Spread and/or establishment of alien and/or invasive species	Powerline (Alt 1)	Operation	-1	2	5	1	1	1	-16	-1	2	2	2	2	1	-8	Medium	1	1	1	1,00	-8,00
Ecology special analog establishment of alien analog invasive species	. Owermic (Alt 1)	Operation	-1)	J	4	4	4	-10	-1					4	-0	iviculalli		1	1	±,00	3,00

IMPACT DESCRIPTION				PR	E - MI	TIGAT	ION				PO	ST - MI	TIGAT	ION					IMPAC ORITISA			
		D. C. A. Di.	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre- Mitigation	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	Public	Cumulative		Priority	Final Significance
Impact	Alternative	Project Phase	_		 	┝									_							- 07
Ecology: Displacement, direct mortalities and disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Powerline (Alt 2)	Operation	-1	3	5	4	4	4	-16	-1	2	2	2	2	4	-8	Medium	1	1	1	1,00	-8,00
Ecology:Spread and/or establishment of alien and/or invasive species	Powerline (Alt 2)	Operation	-1	3	5	4	4	4	-16	-1	2	2	2	2	4	-8	Medium	1	1	1	1,00	-8,00
Ecology: Further loss and fragmentation of the vegetation community and spread and/or establishment of alien and/or invasive species.	Underground Mining (Alt 1)	Operation	-1	4	5	3	4	4	-16	-1	3	3	2	4	3	-9	Medium	1	1	1	1,00	-9,00
Ecology: Sudden sinking or gradual downward settling of the ground's surface over the areas where the underground mining is to take place.	Underground Mining (Alt 1)	Operation	-1	4	5	3	4	4	-16	-1	3	3	2	4	3	-9	Medium	1	1	1	1,00	-9,00
Ecology: Displacement, direct mortalities and disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Underground Mining (Alt 1)	Operation	-1	4	5	3	4	4	-16	-1	3	3	2	4	3	-9	Medium	1	1	1	1,00	-9,00
Ecology: Infringement by humans into the few remaining natural grassland and wetlands areas, with associated impacts such as poaching, litter and introduction of diseases.	Underground Mining (Alt 1)	Operation	-1	4	5	3	4	4	-16	-1	3	3	2	4	3	-9	Medium	1	1	1	1,00	-9,00
Ecology: Further impacts due to the spread and/or establishment of alien and/or invasive species.	Alternative Shaft (Alt 2)	Decommissioning	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	Medium	1	1	1	1,00	
Ecology: Continued displacement, direct mortalities and disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Alternative Shaft (Alt 2)	Decommissioning	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	Medium	1	1	1	1,00	-9,00
Ecology: Further impacts due to the spread and/or establishment of alien and/or invasive species.	Alternative Shaft (Alt 1)	Decommissioning	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	Medium	1	1	1	1,00	-9,00
Ecology: Continued displacement, direct mortalities and disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Alternative Shaft (Alt 1)	Decommissioning	-1	2	5	4	2	3	-9,75	-1	2	3	2	2	4	-9	Medium	1	1	1	1,00	-9,00
Ecology: Further impacts due to the spread and/or establishment of alien and/or invasive species.	Powerline (Alt 1)	Decommissioning	-1	3	4	3	3	4	-13	-1	2	3	2	2	2	-4,5	Medium	1	1	1	1,00	-4,50
Ecology: Continued displacement, direct mortalities and disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Powerline (Alt 1)	Decommissioning	-1	3	4	3	3	4	-13	-1	2	3	2	2	2	-4,5	Medium	1	1	1	1,00	-4,50
Ecology: Further impacts due to the spread and/or establishment of alien and/or invasive species.	Powerline (Alt 2)	Decommissioning	-1	3	4	3	3	3	-9,75	-1	2	2	2	2	2	-4	Medium	1	1	1	1,00	-4,00
Ecology: Continued displacement, direct mortalities and disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Powerline (Alt 2)	Decommissioning	-1	3	4	3	3	3	-9,75	-1	2	2	2	2	2	-4	Medium	1	1	1	1,00	-4,00
Ecology: Further impacts due to the spread and/or establishment of alien and/or invasive species.	Underground Mining (Alt 1)	Decommissioning	-1	4	4	3	4	4	-15	-1	3	4	3	4	3	- 10,5	Medium	1	1	1	1,00	10,50
Ecology: Continued displacement, direct mortalities and disturbance of faunal community (including multiple threatened species) due to habitat loss and disturbances (such as dust and noise).	Underground Mining (Alt 1)	Decommissioning	-1	4	5	3	4	4	-16	-1	3	4	3	4	3	- 10,5	Medium	1	1	1	1,00	10,50
Ecology: Spread and/or establishment of alien invasive plant species.	Alternative Shaft (Alt 2)	Rehab and closure	-1	2	5	4	2	3	-9,75	1	2	3	2	2		6,75	High	1	1	1	1,00	

IMPACT DESCRIPTION				PR	E - MI	ΓΙGΑΤΙ	ON				POS	T - MI	TIGATI	ON					MPAC RITISA			
			Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre- Mitigation	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	Public	Cumulative	Irreplaceabl	Priority Factor	Final Significance
Impact	Alternative	Project Phase Rehab and		Ш			~		0 2		ш			~		<u> </u>		_ ,	0 =	= 0		T S
Ecology: Soil erosion.	Alternative Shaft (Alt 2)	closure	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1	1	1	1,00	6,75
Factory Descitto as establishment of indianacy constation	Altamatica Chaft (Alt 2)	Rehab and	1	٦	_		2	,	0.75	1	_	2		٦	ء ا	C 75	I I i ada		1	1	1.00	6.75
Ecology: Possible re-establishment of indigenous vegetation.	Alternative Shaft (Alt 2)	closure Rehab and	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1		1	1,00	6,75
Ecology: Spread and/or establishment of alien invasive plant species.	Alternative Shaft (Alt 1)	closure	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1	1	1	1,00	6,75
Ecology: Soil erosion.	Alternative Shaft (Alt 1)	Rehab and closure	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1	1	1	1,00	6,75
Leology. Soil erosion.	Alternative Shart (Alt 1)	Rehab and	-1		3	4		3	-3,73			3			3	0,73	TIIGH				1,00	0,73
Ecology: Possible re-establishment of indigenous vegetation.	Alternative Shaft (Alt 1)	closure	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1	1	1	1,00	6,75
	- II (A) (A)	Rehab and			_																	
Ecology: Spread and/or establishment of alien invasive plant species.	Powerline (Alt 1)	closure Rehab and	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1	1	1	1,00	6,75
Ecology: Soil erosion.	Powerline (Alt 1)	closure	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1	1	1	1,00	6,75
		Rehab and																				
Ecology: Possible re-establishment of indigenous vegetation.	Powerline (Alt 1)	closure	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1	1	1	1,00	6,75
Ecology: Spread and/or establishment of alien invasive plant species.	Powerline (Alt 2)	Rehab and closure	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1	1	1	1,00	6,75
Leology: Spread analysis establishment of aneithmostic plant species.	Towermie (7462)	Rehab and							3,73			3			J	0,73	1.1811	-			1,00	0,73
Ecology: Soil erosion.	Powerline (Alt 2)	closure	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1	1	1	1,00	6,75
Ecology: Possible re-establishment of indigenous vegetation.	Powerline (Alt 2)	Rehab and closure	-1	2	5	4	2	3	-9,75	1	2	3	2	2	3	6,75	High	1	1	1	1,00	6,75
Leology. Possible re-establishment of mulgenous vegetation.	roweiline (Ait 2)	Rehab and	-1		3	4		3	-3,73	1		3			3	0,73	TIIGH				1,00	0,73
Ecology: Spread and/or establishment of alien invasive plant species.	Underground Mining (Alt 1)	closure	-1	4	5	3	4	4	-16	-1	3	3	2	4	3	-9	Medium	1	1	1	1,00	-9,00
		Rehab and																				
Ecology: Soil erosion	Underground Mining (Alt 1)	closure Rehab and	-1	4	5	3	4	4	-16	-1	3	3	2	4	3	-9	Medium	1	1	1	1,00	-9,00
Ecology: Possible re-establishment of indigenous vegetation.	Underground Mining (Alt 1)	closure	-1	4	5	3	4	4	-16	-1	3	3	2	4	3	-9	Medium	1	1	1	1,00	-9,00
Ecology: Subsidence and alteration of surface geology, hydrology will impact on	<u> </u>	Rehab and																				
habitats	Underground Mining (Alt 1)	closure	-1	4	5	3	4	4	-16	-1	3	3	2	4	3	-9	Medium	1	1	1	1,00	-9,00
Aquatic Ecology	T	Τ	_				_					-			. 1							
Aquatic: Loss / degradation of aquatic habitat and biota Aquatic: Loss / degradation of aquatic habitat and biota	Alternative Shaft (Alt 1) Alternative Shaft (Alt 1)	Planning Construction	-1	3	2	2	2	3	-6,75	-1	2	2	2	2	1	-2	High High	1	1	1	1,00	
	Alternative Shart (Alt 1)	Construction	-1	3				3	-0,73	-1						-2	півіі			1	1,00	-2,00
Aquatic: Loss / degradation of aquatic habitat and biota	Alternative Shaft (Alt 1)	Operation	-1	3	2	2	2	2	-4,5	-1	2	1	2	2	1	1,75	High	1	1	1	1,00	-1,75
Aquatic: Loss / degradation of aquatic habitat and biota	Alternative Shaft (Alt 1)	Decommissioning	-1	3	1	2	2	2	-4	-1	2	1	1	2	1	-1,5	Medium	1	1	1	1,00	-1,50
Aquatic: Loss / degradation of aquatic habitat and biota	Alternative Shaft (Alt 1)	Rehab and closure	-1	3	1	2	2	2	-4	-1	2	1	1	1	1	- 1,25	High	1	1	1	1,00	-1,25
Aquatic: Loss / degradation of aquatic habitat and biota	Alternative Shaft (Alt 2)	Planning	-1	1	1	1	1	1	-1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Loss / degradation of aquatic habitat and biota	Alternative Shaft (Alt 2)	Construction	-1	3	2	2	2	3	-6,75	-1	2	2	2	2	1	-2	High	1	1	1	1,00	-2,00
Aquatic: Loss / degradation of aquatic habitat and biota	Alternative Shaft (Alt 2)	Operation	-1	3	2	2	2	2	-4,5	-1	2	1	2	2	1	- 1,75	High	1	1	1	1,00	-1,75
Aquatic: Loss / degradation of aquatic habitat and biota	Alternative Shaft (Alt 2)	Decommissioning	-1	3	1	2	2	2	-4	-1	2	1	1	2	1	-1,5	Medium	1	1	1	1,00	
Aquatic: Loss / degradation of aquatic habitat and biota	Alternative Shaft (Alt 2)	Rehab and closure	-1	3	1	2	2	2	-4	-1	2	1	1	1	1	- 1,25	High	1	1	1	1,00	-1,25
Aquatic: Impaired water quality in watercourses	Alternative Shaft (Alt 1)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Impaired water quality in watercourses	Alternative Shaft (Alt 2)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Impaired water quality in watercourses	Alternative Shaft (Alt 2)	Construction	-1	3	2	2	2	3	-6,75	-1	2	1	2	2	2	-3,5	High	1	1	1	1,00	-3,50
Aquatic: Impaired water quality in watercourses	Alternative Shaft (Alt 1)	Operation	-1	3	1	1	2	2	-3,5	-1	2	1	1	2	1	-1,5	High	1	1	1	1,00	-1,50
Aquatic: Impaired water quality in watercourses	Alternative Shaft (Alt 2)	Operation	-1	3	1	1	2	3	-3,5 -5,25	-1	2	1	1	2	2	-1,5	High	1	1	1	1,00	-1,50
Aquatic: Impaired water quality in watercourses Aquatic: Impaired water quality in watercourses	Alternative Shaft (Alt 1) Alternative Shaft (Alt 2)	Decommissioning Decommissioning	-1 -1	3	1	1	2	3	-5,25	-1 -1	2	1	1	2	2	-3 -3	High High	1	1	1	1,00	-3,00 -3,00
Aquation impaired water quanty in watercourses	, accordance Share (Alt 2)	Decommissioning		5		1		5	3,23				1			5	ייפייי	-	1		±,00	3,00

IMPACT DESCRIPTION				PR	E - MI	TIGAT	ION				POS	ST - MI	ITIGAT	ION					IMPACT DRITISA			
			Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre- Mitigation	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	Public	Cumulative Impact	Irreplaceabl	Priority Factor	Final Significance
Impact	Alternative	Project Phase Rehab and		-		_		-	ш 2	_	ш		_	ш.	п.	ш 2				= 0		ш 01
Aquatic: Impaired water quality in watercourses	Alternative Shaft (Alt 1)	closure	-1	3	2	2	2	3	-6,75	-1	2	1	2	1	1	-1,5	Medium	1	1	1	1,00	-1,50
Aquatic: Impaired water quality in watercourses	Alternative Shaft (Alt 2)	Rehab and closure	-1	3	2	2	2	3	-6,75	-1	2	1	2	1	1	-1,5	Medium	1	1	1	1,00	-1,50
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water) and surface topography	Alternative Shaft (Alt 1)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	, ,		1	_	2	_	1	2	6.75	1	2	1	2	<u> </u>	2	2.5		1	1			,
and surface topography Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	Alternative Shaft (Alt 1)	Construction	-1	3	2	2	2	3	-6,75	-1	2	1	2	2	2	-3,5	High	1	1	1	1,00	-3,50
and surface topography	Alternative Shaft (Alt 1)	Operation	-1	3	2	2	2	2	-4,5	-1	2	2	2	2	1	-2	High	1	1	1	1,00	-2,00
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water) and surface topography	Alternative Shaft (Alt 1)	Decommissioning	-1	3	1	2	2	2	-4	-1	2	1	1	2	2	-3	High	1	1	1	1,00	-3,00
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water) and surface topography	Alternative Shaft (Alt 1)	Rehab and closure	-1	3	1	2	2	2	-4	-1	2	1	1	1	2	-2,5	Medium	1	1	1	1,00	-2,50
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water) and surface topography	Alternative Shaft (Alt 2)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water) and surface topography	Alternative Shaft (Alt 2)	Construction	-1	3	2	2	2	3	-6,75	-1	2	1	2	2	2	-3,5	High	1	1	1	1,00	-3,50
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)					2	2						2		2				1	1	1		
and surface topography Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	Alternative Shaft (Alt 2)	Operation	-1	3	2	2	2	2	-4,5	-1	2	2	2	2	1	-2	High	1	1	1	1,00	-2,00
and surface topography	Alternative Shaft (Alt 2)	Decommissioning Rehab and	-1	3	1	2	2	2	-4	-1	2	1	1	2	2	-3	High	1	1	1	1,00	-3,00
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water) and surface topography	Alternative Shaft (Alt 2)	closure	-1	3	1	2	2	2	-4	-1	2	1	1	1	2	-2,5	Medium	1	1	1	1,00	-2,50
Aquatic: Loss / degradation of aquatic habitat and biota	Powerline (Alt 1)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Loss / degradation of aquatic habitat and biota	Powerline (Alt 2)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Impaired water quality in watercourses	Alternative Shaft (Alt 1)	Construction	-1	3	2	2	2	3	-6,75	-1	2	1	2	2	2	-3,5	High	1	1	1	1,00	-3,50
Aquatic: Impaired water quality in watercourses	Alternative Shaft (Alt 2)	Construction	-1	3	2	2	2	3	-6,75	-1	2	1	2	2	2	-3,5	High	1	1	1	1,00	-3,50
Aquatic: Loss / degradation of aquatic habitat and biota	Powerline (Alt 1)	Construction	-1	2	2	2	2	5	-10	-1	1	2	2	2	3	5,25	High	1	2	1	1,17	-6,13
Aquatic: Loss / degradation of aquatic habitat and biota	Powerline (Alt 2)	Construction	-1	2	2	2	2	5	-10	-1	1	2	2	2	3	- 5,25	High	1	2	1	1,17	-6,13
Aquatic: Loss / degradation of aquatic habitat and biota	Powerline (Alt 1)	Operation	-1	1	1	1	1	2	-2	-1	1	1	1	1	2	-2	Medium	1	1	1	1,00	-2,00
Aquatic: Loss / degradation of aquatic habitat and biota	Powerline (Alt 2)	Operation	-1	1	1	1	1	2	-2	-1	1	1	1	1	2	-2	Medium	1	1	1	1,00	-2,00
Aquatic: Loss / degradation of aquatic habitat and biota	Powerline (Alt 1)	Decommissioning	-1	2	2	2	2	4	-8	-1	1	2	2	2	2	-3,5	High	1	1	1	1,00	-3,50
Aquatic: Loss / degradation of aquatic habitat and biota	Powerline (Alt 2)	Decommissioning	-1	2	2	2	2	4	-8	-1	1	2	2	2	2	-3,5	High	1	1	1	1,00	-3,50
Aquatic: Loss / degradation of aquatic habitat and biota	Powerline (Alt 1)	Rehab and closure	-1	2	2	2	2	2	-4	-1	1	1	1	1	1	-1	Medium	1	2	1	1,17	-1,17
Aquatic: Loss / degradation of aquatic habitat and biota	Powerline (Alt 2)	Rehab and closure	-1	2	2	2	2	2	-4	-1	1	1	1	1	1	-1	Medium	1	2	1	1,17	-1,17
Aquatic: Impaired water quality in watercourses	Powerline (Alt 1)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Impaired water quality in watercourses	Powerline (Alt 1)	Construction	-1	3	2	3	2	5	-12,5	-1	2	2	2	2	3	-6	High	1	2	1	1,17	-7,00
Aquatic: Impaired water quality in watercourses	Powerline (Alt 1)	Operation	-1	1	1	1	1	2	-2		1	1	1	1	1	-1	High	1	1	1	1,00	-1,00
Aquatic: Impaired water quality in watercourses	Powerline (Alt 1)	Decommissioning	-1	3	2	3	2	4	-10	-1	2	2	2	2	2	-4	High	1	2	1	1,17	-4,67
Aquatic: Impaired water quality in watercourses	Powerline (Alt 1)	Rehab and closure	-1	3	2	2	2	2	-4,5	-1	2	1	1	1	1	1,25	High	1	2	1	1,17	-1,46
Aquatic: Impaired water quality in watercourses	Powerline (Alt 2)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Impaired water quality in watercourses Aquatic: Impaired water quality in watercourses	Powerline (Alt 2)	Construction	-1	3	2	3	2	5	-12,5	-1	2	2	2	2	3	-6	High	1	2	1	1,17	-7,00
Aquatic: Impaired water quality in watercourses Aquatic: Impaired water quality in watercourses	Powerline (Alt 2)	Operation	-1	1	1	1	1	2	-12,5		1	1	1	1	1	-0 -1	High	1	1	1	1,00	-1,00
Aquatic: Impaired water quality in watercourses Aquatic: Impaired water quality in watercourses	Powerline (Alt 2)	Decommissioning	-1	3	2	3	2	4	-10	-1	2	2	2	2	2	-4	High	1	2	1	1,17	-4,67
Addition impaired tracer quality in tracercourses		- Seconining							10					_			ייסייי ו				±,±1	1,01

IMPACT DESCRIPTION				PR	E - MI	TIGAT	ION				POS	ST - M	ITIGAT	ION					MPAC [*] RITISA			
Impact	Alternative	Project Phase	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre- Mitigation	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post- Mitigation	Confidence	Public	Cumulative	Irreplaceabl	Priority Factor	Final Significance
Impute	7 HECHIGATE	Rehab and														_						
Aquatic: Impaired water quality in watercourses	Powerline (Alt 2)	closure	-1	3	2	2	2	2	-4,5	-1	2	1	1	1	1	1,25	High	1	2	1	1,17	-1,46
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)																						
and surface topography	Powerline (Alt 1)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)																					, /	
and surface topography	Powerline (Alt 1)	Construction	-1	2	3	3	2	4	-10	-1	1	2	2	2	2	-3,5	High	1	2	1	1,17	-4,08
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)																-					, /	
and surface topography	Powerline (Alt 1)	Operation	-1	1	3	1	1	1	-1,5	-1	1	2	1	1	1	1,25	Medium	1	2	1	1,17	-1,46
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	Demontine (Alt 1)	D						١,				٦		2	٦	2	111-1-	1	2	4	1 4 4 7	2.50
and surface topography	Powerline (Alt 1)	Decommissioning	-1	2	3	2	2	4	-9	-1	1	2	1	2	2	-3	High	1		1	1,17	-3,50
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	Demontine (Alt 1)	Rehab and	1		,	,	ا ا	١	4.5	1	1	1		1	1	1	N A a alicena	1	2	1	1 1 7	1.17
and surface topography	Powerline (Alt 1)	closure	-1	2	3	2	2	2	-4,5	-1	1	1	1	1	1	-1	Medium	1	2	1	1,17	-1,17
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water) and surface topography	Powerline (Alt 2)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	1	1	1	1,00	1,00
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	Fowerine (Ait 2)	Fidilling	1		-	 			1			1		1		1	iligii	1			1,00	1,00
and surface topography	Powerline (Alt 2)	Construction	-1	2	3	3	2	4	-10	-1	1	2	2	2	2	-3,5	High	1	2	1	1,17	-4,08
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	r owermie (r ac 2)	Construction	_	<u> </u>	<u> </u>	<u> </u>	_	<u> </u>	10		_	_	_		_		111611	_				1,00
and surface topography	Powerline (Alt 2)	Operation	-1	1	3	1	1	1	-1,5	-1	1	2	1	1	1	1,25	Medium	1	2	1	1,17	-1,46
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	(= /	- Cpordate.							=,=													=, ::
and surface topography	Powerline (Alt 2)	Decommissioning	-1	2	3	2	2	4	-9	-1	1	2	1	2	2	-3	High	1	2	1	1,17	-3,50
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	, ,	Rehab and															Ĭ					
and surface topography	Powerline (Alt 2)	closure	-1	2	3	2	2	2	-4,5	-1	1	1	1	1	1	-1	Medium	1	2	1	1,17	-1,17
Aquatic: Loss / degradation of aquatic habitat and biota	Underground Mining (Alt 1)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	2	1	1	1,17	1,17
Aquatic: Loss / degradation of aquatic habitat and biota	Underground Mining (Alt 1)	Operation	-1	3	5	3	2	3	-9,75	-1	2	4	3	2	2	-5,5	High	2	3	1	1,50	-8,25
Aquatic: Loss / degradation of aquatic habitat and biota	Underground Mining (Alt 1)	Decommissioning	-1	3	5	3	2	3	-9,75	-1	2	4	3	2	2	-5,5	High	2	3	1	1,50	-8,25
Aquatic: Loss / degradation of aquatic habitat and biota		Rehab and														-					, ,	-
	Underground Mining (Alt 1)	closure	-1	3	4	3	2	4	-12	-1	2	4	3	2	3	8,25	High	2	3	1	1,50	12,38
Aquatic: Impaired water quality in watercourses	Underground Mining (Alt 1)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	2	1	1	1,17	1,17
Aquatic: Impaired water quality in watercourses	Underground Mining (Alt 1)	Operation	-1	4	5	4	2	3	11,25	-1	3	4	3	2	3	-9	High	2	3	1	1,50	13,50
Aquatic: Impaired water quality in watercourses	Underground Mining (Alt 1)	Decommissioning	-1	4	5	4	4	3	- 12,75	-1	4	4	3	3	3	- 10,5	High	2	3	1	1,50	- 15,75
		Rehab and														-						-
Aquatic: Impaired water quality in watercourses	Underground Mining (Alt 1)	closure	-1	4	5	4	4	4	-17	-1	3	4	3	3	3	9,75	High	2	3	1	1,50	14,63
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)																	l					
and surface topography	Underground Mining (Alt 1)	Planning	1	1	1	1	1	1	1	1	1	1	1	1	1	1	High	2	1	1	1,17	1,17
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	Underground Mining (Alt 1)	Operation	-1	4	5	3	3	4	15	1	3	4	3	2	3	0	High	2	2	1	1,50	13,50
and surface topography	onderground willing (Alt 1)	Operation	-1	4	5	3	3	4	-15	-1	3	4	3	2	3	-9	LIRII	Z	3	1	1,50	13,30
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water) and surface topography	Underground Mining (Alt 1)	Decommissioning	-1	4	5	3	3	4	-15	-1	4	4	3	2	2	9,75	High	2	3	1	1,50	14,63
Aquatic: Alterations in hydrological regime (flow of surface and sub-surface water)	onderground Willing (Alt 1)	Rehab and	1	7		,	,	7	13		-	7	3		3	3,73	111611		3		1,30	24,03
and surface topography	Underground Mining (Alt 1)	closure	-1	4	5	3	3	4	-15	-1	4	4	3	3	4	-14	High	2	3	1	1,50	21,00
	01.7																					