Identifier	Aspect	Impact	Alternative	Phase	Event	Pre-Nature	Pre-Extent	Pre-Duration	Pre-Magnitude	Pre-Reversibility	Consequence	Pre-Probability	Pre-Mitigation Significance Score	Pre-Mitigation Significance	Post-Nature	Post-Extent	Post-Duration	Post-Magnitude	Post-Reversibility	Post-Consequence	Post-Probability	Post-mitigation Significance Score	Post-Mitigation Significance	Confidence	Cumulative Impact	Irreplaceable loss	Priority Factor	Final score
1	Air Quality	Air pollution as a result from dust generation activities and gaseous emissions from vehicles and equipment.	Proposed Project	Construction	Normal operations or events	-1	2	1	3	2	-2	5	-10	Medium to high -	-1	1	1	2	2	-1,5	5	-7,5	Medium to low -	High	1	1	1,00	-7,50
2	Air Quality	Air pollution as a result from dust generation activities (i.e. blasting, hauling, crushing, and stockpiling).	Proposed Project	Operation	Normal operations or events	-1	2	1	3	3	-2,25	5	-11,25	Medium to high -	-1	1	1	2	3	-1,75	5	-8,75	Medium to high -	High	2	2	1,25	-10,94
3	Air Quality	Air Quality as a result from gaseous emissions from vehicles and equipment	Proposed Project	Operation	Normal operations or events	-1	2	1	3	2	-2	5	-10	Medium to high -	-1	1	1	2	2	-1,5	5	-7,5	Medium to low -	High	2	1	1,13	-8,44
4	Air Quality	Increased dust from demolition activities.	Proposed Project	Decommissioning	Normal operations or events	-1	2	1	2	1	-1,5	5	-7,5	Medium to low -	-1	1	1	1	1	-1	5	-5	Medium to low -	High	1	1	1,00	-5,00
5	Noise & Vibration	Increased noise and vibrations from earth-moving equipment affecting nearby communities and wildlife.	Proposed Project	Construction	Normal operations or events	-1	3	2	3	1	-2,25	4	-9	Medium to high -	-1	3	2	2	1	-2	2	-4	Low -	Medium	1	1	1,00	-4,00
6	Noise & Vibration	Continuous low-frequency noise affecting local settlements and livestock.	Proposed Project	Operation	Normal operations or events	-1	3	4	3	1	-2,75	4	-11	Medium to high -	-1	3	4	2	1	-2,5	2	-5	Medium to low -	Medium	2	1	1,13	-5,63
7	Noise & Vibration	Regular blasting leading to structural damage in nearby properties and disturbance to communities.	Proposed Project	Operation	Normal operations or events	-1	3	4	3	3	-3,25	4	-13	Medium to high -	-1	3	4	2	2	-2,75	2	-5,5	Medium to low -	Medium	2	1	1,13	-6,19
8	Biodiversity & Habitat Loss	Destruction, loss and fragmentation of the vegetation community	Proposed Project	Construction	Normal operations or events	-1	2	5	4	3	-3,5	5	-17,5	High -	-1	2	4	4	3	-3,25	4	-13	Medium to high -	High	2	2	1,25	-16,25
9	Biodiversity & Habitat Loss	Displacement of faunal community due to habitat loss, direct mortalities and disturbance (road collisions, noise, light, dust, vibration and poaching).	Proposed Project	Construction	Normal operations or events	-1	2	4	4	3	-3,25	4	-13	Medium to high -	-1	2	4	3	3	-3	4	-12	Medium to high -	High	2	1	1,13	-13,50
10	Soil & Land Disturbance	Clearing of vegetation leading to soil erosion and loss of topsoil.	Proposed Project	Construction	Normal operations or events	-1	2	5	4	3	-3,5	4	-14	High -	-1	1	4	4	2	-2,75	3	-8,25	Medium to low -	High	2	1	1,13	-9,28
11	Soil & Land Disturbance	Increased risk of contamination (soil and water resource) from fuel spills, construction waste, and hazardous materials.	Proposed Project	Construction	Normal operations or events	-1	2	4	3	3	-3	4	-12	Medium to high -	-1	2	4	2	2	-2,5	2	-5	Medium to low -	High	2	2	1,25	-6,25
12	Biodiversity & Habitat Loss	Introduction of alien species, especially plants	Proposed Project	Construction	Normal operations or events	-1	2	5	3	3	-3,25	4	-13	Medium to high -	-1	1	2	2	2	-1,75	2	-3,5	Low -	High	2	1	1,13	-3,94
13	Biodiversity & Ecological Impacts	Ongoing habitat destruction and disturbance to fauna from noise, dust, and artificial lighting.	Proposed Project	Operation	Normal operations or events	-1	2	4	4	3	-3,25	4	-13	Medium to high -	-1	2	4	2	3	-2,75	3	-8,25	Medium to low -	High	2	1	1,13	-9,28
14	Biodiversity & Ecological Impacts	Increased human-wildlife conflicts due to habitat fragmentation (litter, pollution, road mortalities, poaching, etc.).	Proposed Project	Operation	Normal operations or events	-1	2	4	3	3	-3	4	-12	Medium to high -	-1	2	4	2	2	-2,5	2	-5	Medium to low -	High	2	1	1,13	-5,63
15	Biodiversity & Ecological Impacts	Environmental pollution due to water/ mine drainage runoff.	Proposed Project	Operation	Normal operations or events	-1	3	4	3	3	-3,25	4	-13	Medium to high -	-1	2	4	2	2	-2,5	2	-5	Medium to low -	High	2	2	1,25	-6,25
16	Land & Soil Degradation	Continuous stripping of topsoil for opencast mining, leading to ongoing land degradation, including erosion	Proposed Project	Operation	Normal operations or events	-1	2	4	4	3	-3,25	4	-13	Medium to high -	-1	2	4	3	3	-3	4	-12	Medium to high -	High	2	1	1,13	-13,50
17	Land & Soil Degradation	Continued encroachment by alien and invasive plant species	Proposed Project	Operation	Normal operations or events	-1	3	5	3	3	-3,5	4	-14	High -	-1	1	2	2	2	-1,75	2	-3,5	Low -	Medium	2	1	1,13	-3,94
18	Soil & Land Stability Risks	Increased risk of soil erosion and instability due to removal of infrastructure.	Proposed Project	Decommissioning	Normal operations or events	-1	2	3	4	3	-3	4	-12	Medium to high -	-1	1	3	2	3	-2,25	3	-6,75	Medium to low -	Medium	1	1	1,00	-6,75
19	Biodiversity & Ecological Impacts	Ongoing habitat destruction and disturbance to fauna from noise, dust, and artificial lighting.	Proposed Project	Decommissioning	Normal operations or events	-1	2	3	3	3	-2,75	3	-8,25	Medium to low -	-1	1	3	2	2	-2	2	-4	Low -	High	2	1	1,13	-4,50
20	Land Restoration & Vegetation Recovery	Slow regrowth of natural vegetation and potential further spread of alien and invasive species.	Proposed Project	Rehab and Closure	Normal operations or events	-1	2	5	3	3	-3,25	4	-13	Medium to high -	-1	2	2	2	3	-2,25	2	-4,5	Medium to low -	Medium	1	1	1,00	-4,50
21	Biodiversity & Habitat Loss	Indirect loss, disturbance and degradation of wetlands.	Proposed Project	Construction	Normal operations or events	-1	2	1	3	2	-2	3	-6	Medium to low -	-1	1	1	1	1	-1	3	-3	Low -	High	2	2	1,25	-3,75
22	Land & Soil Degradation	Increased bare surfaces, runoff and potential for erosion.	Proposed Project	Construction	Normal operations or events	-1	2	3	3	3	-2,75	3	-8,25	Medium to low -	-1	1	2	2	1	-1,5	3	-4,5	Medium to low -	High	2	2	1,25	-5,63
23	Water Resources & Pollution	Degradation of wetland vegetation and the introduction and spread of alien and invasive vegetation.	Proposed Project	Construction	Normal operations or events	-1	2	3	3	2	-2,5	3	-7,5	Medium to low -	-1	1	2	1	1	-1,25	3	-3,75	Low -	High	2	2	1,25	-4,69
24	Water Resources & Pollution	Increased sediment loads to downstream reaches.	Proposed Project	Construction	Normal operations or events	-1	2	3	3	2	-2,5	3	-7,5	Medium to low -	-1	1	2	1	1	-1,25	3	-3,75	Low -	High	2	2	1,25	-4,69
25	Water Resources & Pollution	Contamination of wetlands with hydrocarbons due to machinery leaks and eutrophication of wetland systems with human sewerage and other waste.	Proposed Project	Construction	Normal operations or events	-1	2	3	3	3	-2,75	3	-8,25	Medium to low -	-1	1	2	2	1	-1,5	3	-4,5	Medium to low -	High	2	2	1,25	-5,63
26	Water Resources & Pollution	Alteration of hydrological regime.	Proposed Project	Construction	Normal operations or events	-1	2	3	3	2	-2,5	3	-7,5	Medium to low -	-1	1	1	1	1	-1	3	-3	Low -	High	2	2	1,25	-3,75
27	Water Resources & Pollution	Increased water inputs (clean) to downstream wetlands	Proposed Project	Operation	Normal operations or events	-1	2	4	3	3	-3	4	-12	Medium to high -	-1	1	2	2	1	-1,5	3	-4,5	Medium to low -	High	2	2	1,25	-5,63
28	Water Resources & Pollution	Degradation of wetland vegetation and proliferation of alien and invasive species.	Proposed Project	Decommissioning	Normal operations or events	-1	2	2	3	3	-2,5	4	-10	Medium to high -	-1	1	2	1	1	-1,25	3	-3,75	Low -	High	2	2	1,25	-4,69
29	Water Resources & Pollution	Disruption of wetland soil profile, hydrological regime and increased sediment loads.	Proposed Project	Decommissioning	Normal operations or events	-1	2	3	3	3	-2,75	3	-8,25	Medium to low -	-1	1	2	2	1	-1,5	3	-4,5	Medium to low -	High	2	2	1,25	-5,63
30	Hydropedology	Soil compaction, Soil erosion, Land degradation - Associated Infrastructure.	Proposed Project	Construction	Normal operations or events	-1	3	4	4	3	-3,5	3	-10,5	Medium to high -	-1	3	2	2	3	-2,5	2	-5	Medium to low -	High	2	3	1,38	-6,88
31	Hydropedology	Soil compaction, Soil erosion, Land degradation - Associated Infrastructure.	Proposed Project	Operation	Normal operations or events	-1	2	3	2	3	-2,5	2	-5	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	2	3	1,38	-5,50
32	Hydropedology	Soil compaction, Soil erosion, Land degradation - Associated Infrastructure.	Proposed Project	Decommissioning	Normal operations or events	-1	2	2	2	2	-2	3	-6	Medium to low -	-1	2	2	1	2	-1,75	2	-3,5	Low -	Low	2	3	1,38	-4,81
33	Hydropedology	Soil compaction, Soil erosion, Land degradation - Associated Infrastructure.	Proposed Project	Rehab and Closure	Normal operations or events	-1	2	2	2	2	-2	2	-4	Low -	-1	2	2	1	2	-1,75	1	-1,75	Low -	Low	1	2	1,13	-1,97
34	Hydropedology	Decrease in subsurface lateral flow and return flow - Associated Infrastructure.	Proposed Project	Construction	Normal operations or events	-1	3	4	3	3	-3,25	4	-13	Medium to high -	-1	2	2	3	3	-2,5	2	-5	Medium to low -	High	2	3	1,38	-6,88
35	Hydropedology	Decrease in subsurface lateral flow and return flow - Associated Infrastructure.	Proposed Project	Operation	Normal operations or events	-1	2	3	2	3	-2,5	2	-5	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	2	3	1,38	-5,50
36	Hydropedology	Decrease in subsurface lateral flow and return flow - Associated Infrastructure.	Proposed Project	Decommissioning	Normal operations or events	-1	2	2	2	2	-2	3	-6	Medium to low -	-1	2	2	1	2	-1,75	2	-3,5	Low -	Low	2	2	1,25	-4,38
37	Hydropedology	Decrease in subsurface lateral flow and return flow - Associated Infrastructure.	Proposed Project	Rehab and Closure	Normal operations or events	-1	2	2	2	2	-2	2	-4	Low -	-1	2	2	1	2	-1,75	1	-1,75	Low -	Low	1	2	1,13	-1,97
38	Hydropedology	Soil compaction, Soil erosion, Land degradation - Opencast Mining Activities.	Proposed Project	Construction	Normal operations or events	-1	4	4	4	3	-3,75	3	-11,25	Medium to high -	-1	3	2	2	3	-2,5	2	-5	Medium to low -	High	2	3	1,38	-6,88
39	Hydropedology	Soil compaction, Soil erosion, Land degradation - Opencast Mining Activities.	Proposed Project	Operation	Normal operations or events	-1	3	3	4	3	-3,25	3	-9,75	Medium to high -	-1	2	2	2	2	-2	2	-4	Low -	High	2	3	1,38	-5,50
40	Hydropedology	Soil compaction, Soil erosion, Land degradation - Opencast Mining Activities.	Proposed Project	Decommissioning	Normal operations or events	-1	2	2	2	2	-2	3	-6	Medium to low -	-1	2	2	1	2	-1,75	2	-3,5	Low -	Low	2	2	1,25	-4,38
41	Hydropedology	Soil compaction, Soil erosion, Land degradation - Opencast Mining Activities.	Proposed Project	Rehab and Closure	Normal operations or events	-1	2	2	2	2	-2	2	-4	Low -	-1	2	2	1	2	-1,75	1	-1,75	Low -	Low	1	2	1,13	-1,97
42	Hydropedology	Decrease in subsurface lateral flow and return flow - Opencast Mining Activities.	Proposed Project	Construction	Normal operations or events	-1	4	4	4	4	-4	4	-16	High -	-1	3	3	3	2	-2,75	3	-8,25	Medium to low -	High	2	3	1,38	-11,34
43	Hydropedology	Decrease in subsurface lateral flow and return flow - Opencast Mining Activities.	Proposed Project	Operation	Normal operations or events	-1	3	3	3	3	-3	3	-9	Medium to high -	-1	2	2	2	2	-2	2	-4	Low -	High	2	3	1,38	-5,50
44	Hydropedology	Decrease in subsurface lateral flow and return flow - Opencast Mining Activities.	Proposed Project	Decommissioning	Normal operations or events	-1	2	2	2	2	-2	3	-6	Medium to low -	-1	2	2	1	2	-1,75	2	-3,5	Low -	Low	2	2	1,25	-4,38
45	Hydropedology	Decrease in subsurface lateral flow and return flow - Opencast Mining Activities.	Proposed Project	Rehab and Closure	Normal operations or events	-1	2	2	2	2	-2	2	-4	Low -	-1	2	2	1	2	-1,75	1	-1,75	Low -	Low	1	2	1,13	-1,97

Identifier	Aspect	Impact	Alternative	Phase	Event	Pre-Nature	Pre-Extent	Pre-Duration	Pre-Magnitude	Pre-Reversibility	Consequence	Pre-Probability	Pre-Mitigation Significance Score	Pre-Mitigation Significance	Post-Nature	Post-Extent	Post-Duration	Post-Magnitude	Post-Reversibility	Post-Consequence	Post-Probability	Post-mitigation Significance Score	Post-Mitigation Significance	Confidence	Cumulative Impact	Irreplaceable loss	Priority Factor	Final score
46	Water Resource Management	Remediation of contaminated water sources in the unlikely event of post closure contamination.	Proposed Project	Rehab and Closure	Abnormal or unplanned events	-1	3	3	3	3	-3	3	-9	Medium to high -	-1	2	2	1	1	-1,5	1	-1,5	Low -	Medium	2	2	1,25	-1,88
47	Infrastructure within Floodlines	Altering the beds, banks, course or characteristics of a watercourse.	Proposed Project	Construction	Normal operations or events	-1	3	2	3	3	-2,75	5	-13,75	Medium to high -	-1	2	2	2	2	-2	3	-6	Medium to low -	Low	2	2	1,25	-7,50
48	Infrastructure within Floodlines	Damage caused to infrastructure as a result of flood event.	Proposed Project	Operation	Normal operations or events	-1	3	2	4	3	-3	4	-12	Medium to high -	-1	2	2	3	2	-2,25	3	-6,75	Medium to low -	Low	2	2	1,25	-8,44
49	Water Resources & Pollution	Dewatering impacts on ground water table	Proposed Project	Operation	Normal operations or events	-1	4	4	2	3	-3,25	4	-13	Medium to high -	-1	2	4	1	2	-2,25	4	-9	Medium to high -	Medium	2	2	1,25	-11,25
50	Water Quality Risks	Impacts on groundwater quality during mining	Proposed Project	Operation	Normal operations or events	-1	3	4	2	2	-2,75	5	-13,75	Medium to high -	-1	2	4	1	1	-2	5	-10	Medium to high -	Medium	2	2	1,25	-12,50
51	Water Quality Risks	Impacts on groundwater quality during mining	Proposed Project	Decommissioning	Normal operations or events	-1	2	2	2	2	-2	4	-8	Medium to low -	-1	1	2	1	1	-1,25	3	-3,75	Low -	Medium	2	2	1,25	-4,69
52	Water Quality Risks	Impacts on groundwater quality during mining	Proposed Project	Rehab and Closure	Normal operations or events	-1	2	2	2	2	-2	3	-6	Medium to low -	-1	1	2	1	1	-1,25	2	-2,5	Low -	Medium	2	2	1,25	-3,13
53	Cultural & Heritage Impacts	Potential destruction of Late Iron Age Archaeological sites	Proposed Project	Construction	Normal operations or events	-1	2	5	2	5	-3,5	5	-17,5	High -	-1	1	5	1	5	-3	1	-3	Low -	High	1	3	1,25	-3,75
54	Cultural & Heritage Impacts	Potential destruction of historical homesteads with potential infant burial	Proposed Project	Construction	Normal operations or events	-1	2	5	2	5	-3,5	5	-17,5	High -	-1	1	5	1	5	-3	1	-3	Low -	High	1	3	1,25	-3,75
55	Cultural & Heritage Impacts	Potential destruction of graveyards	Proposed Project	Construction	Normal operations or events	-1	2	5	2	5	-3,5	5	-17,5	High -	-1	1	5	1	5	-3	1	-3	Low -	High	1	3	1,25	-3,75
56	Cultural & Heritage Impacts	Potential destruction of historical Infrastructure	Proposed Project	Construction	Normal operations or events	-1	1	5	2	5	-3,25	4	-13	Medium to high -	-1	1	5	1	5	-3	1	-3	Low -	High	1	1	1,00	-3,00
57	Palaeontological Resources	Loss of Palaeontological Resources.	Proposed Project	Construction	Normal operations or events	-1	1	5	1	5	-3	1	-3	Low -	-1	1	5	1	5	-3	1	-3	Low -	High	1	3	1,25	-3,75
58	Waste Generation & Disposal	Large volumes of demolition waste requiring appropriate disposal.	Proposed Project	Decommissioning	Normal operations or events	-1	3	2	2	3	-2,5	4	-10	Medium to high -	-1	2	2	1	2	-1,75	2	-3,5	Low -	High	2	2	1,25	-4,38
59	Community Health & Safety	Risk of accidents related to mining activities and transport of hazardous materials.	Proposed Project	Operation	Normal operations or events	-1	2	4	5	5	-4	3	-12	Medium to high -	-1	1	4	1	2	-2	1	-2	Low -	High	1	3	1,25	-2,50
60	Employment & Economic Contributions	Job creation and economic benefits for surrounding communities.	Proposed Project	Construction	Normal operations or events	1	4	2	5	1	3	5	15	High +	1	4	2	5	1	3	5	15	High +	High	3	3	1,50	22,50
61	Job Continuation	Continuation of jobs at the mine if Life of Mine is extended and econimic benefits for the surrounding communities.	Proposed Project	Operation	Normal operations or events	1	4	4	5	1	3,5	5	17,5	High +	1	4	4	5	1	3,5	5	17,5	High +	High	3	3	1,50	26,25
62	Employment & Economic Contributions	Potential skills development and training programs for employees.	Proposed Project	Operation	Normal operations or events	1	4	4	4	5	4,25	4	17	High +	1	4	4	4	5	4,25	4	17	High +	Medium	2	2	1,25	21,25
63	Livelihood & Land Use Conflicts	Reduced availability of arable land for farming due to mining expansion into southern areas.	Proposed Project	Operation	Normal operations or events	-1	2	4	5	3	-3,5	5	-17,5	High -	-1	1	4	5	1	-2,75	5	-13,75	Medium to high -	High	1	1	1,00	-13,75
64	Livelihood & Land Use Conflicts	Competition for water resources between the mine and surrounding farmers.	Proposed Project	Operation	Normal operations or events	-1	3	4	4	2	-3,25	3	-9,75	Medium to high -	-1	2	4	1	1	-2	1	-2	Low -	High	1	1	1,00	-2,00
65	Community Safety & Security Risks	Illegal occupation of abandoned mine infrastructure.	Proposed Project	Decommissioning	Normal operations or events	-1	1	4	4	3	-3	3	-9	Medium to high -	-1	1	1	2	2	-1,5	2	-3	Low -	High	2	2	1,13	-3,38
66	Job Losses & Economic Decline	Retrenchments leading to social and economic hardship in local communities.	Proposed Project	Decommissioning	Normal operations or events	-1	4	2	4	3	-3,25	5	-16,25	High -	-1	2	1	2	1	-1,5	1	-1,5	Low -	Medium	2	2	1,25	-1,88
67	Alternative Land Use Opportunities	Potential conversion of rehabilitated land for agriculture, conservation, or community use.	Proposed Project	Rehab and Closure	Normal operations or events	1	3	4	3	1	2,75	3	8,25	Low to medium +	1	4	5	5	2	4	4	16	High +	Medium	1	3	1,25	20,00
68	Alternative Land Use Opportunities	Opportunities for eco-tourism or renewable energy projects.	Proposed Project	Rehab and Closure	Normal operations or events	1	3	4	3	1	2,75	3	8,25	Low to medium +	1	4	5	4	2	3,75	4	15	High +	Medium	1	3	1,25	18,75
69	Soil & Land Stability Risks	Subsidence issues from abandoned underground mining operations.	Proposed Project	Decommissioning	Normal operations or events	-1	3	3	4	4	-3,5	3	-10,5	Medium to high -	-1	2	2	1	2	-1,75	1	-1,75	Low -	Medium	2	2	1,25	-2,19

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70	Tailings & Waste Rock Management	Risk of tailings dam failure causing serious environmental and socio-economic damage.	Proposed Project	Operation	Normal operations or events	-1	3	4	5	4	-4	2	-8	Medium to low -	-1	2	3	1	2	-2	1	-2	Low -	Medium	1	3	1,25	-2,50
71	Tailings & Waste Rock Management	Heavy metal leaching from waste rock dump affecting soil and water quality.	Proposed Project	Operation	Normal operations or events	-1	3	4	4	3	-3,5	3	-10,5	Medium to high -	-1	2	3	1	2	-2	1	-2	Low -	Medium	2	2	1,25	-2,50
72	Tailings & Waste Rock Management	TSF footprint expansion resulting in permanent alteration of surface land use.	Proposed Project	Operation	Normal operations or events	-1	1	4	5	3	-3,25	5	-16,25	High -	-1	1	3	1	3	-2	1	-2	Low -	Medium	2	2	1,25	-2,50
73	Long-Term Environmental Monitoring Needs	TSF basement liner or capping failure resulting in contamination of the surface and/or groundwater resources.	Proposed Project	Rehab and Closure	Abnormal or unplanned events	-1	3	3	4	3	-3,25	3	-9,75	Medium to high -	-1	2	2	1	2	-1,75	1	-1,75	Low -	Medium	2	2	1,25	-2,19