

Impact	Phase	Pre-Mitigation							Post Mitigation							Priority Factor Criteria				
		Nature	Extent	Duration	Magnitude	Reversibility	Probability	Pre-mitigation ER	Nature	Extent	Duration	Magnitude	Reversibility	Probability	Post-mitigation ER	Confidence	Cumulative Impact	Irreplaceable loss	Priority Factor	Final score
Emissions and Dust	Operation	-1	3	4	4	4	3	-11.25	-1	3	4	2	3	3	-9	Medium	1	1	1.00	-9
Emissions and Dust	Rehab and closure	-1	3	2	3	2	4	-10	-1	2	2	3	2	3	-6.75	Medium	1	1	1.00	-6.75
Exhalation and dispersion of radon gas to the atmosphere	Operation	-1	2	5	1	3	2	-5.5	-1	2	5	1	3	1	-2.75	Medium	1	1	1.00	-2.75
Emission and dispersion of particulate matter that contains radionuclides to the atmosphere	Operation	-1	2	5	1	2	2	-5	-1	2	5	1	2	1	-2.5	Medium	1	1	1.00	-2.5
Implementation of the NNR-approved decommissioning plan	Rehab and closure	1	2	5	4	5	4	16	1	2	5	4	5	4	16	Medium	1	1	1.00	16
Exhalation, emission and dispersion of radon gas and particulate matter that contains radionuclides during the post-closure phase	Rehab and closure	-1	2	5	1	2	2	-5	-1	2	5	1	2	1	-2.5	Medium	1	1	1.00	-2.5
Leaching and migration of radionuclides from the TSF during the post-closure phase	Rehab and closure	-1	3	5	1	3	2	-6	-1	3	5	1	3	2	-6	Medium	1	1	1.00	-6
Decrease in subsurface lateral flow and return flow	Operation	-1	2	3	2	2	2	-4.5	-1	2	2	1	1	1	-1.5	High	1	1	1.00	-1.5
Decrease in subsurface lateral flow and return flow	Decommissioning	-1	2	2	2	2	2	-4	-1	2	1	1	1	1	-1.25	High	1	1	1.00	-1.25
Decrease in subsurface lateral flow and return flow	Rehab and closure	-1	2	2	1	1	2	-3	-1	2	2	1	1	1	-1.5	High	1	1	1.00	-1.5
Groundwater contamination	Operation	-1	4	4	4	4	4	-16	-1	2	3	2	2	2	-4.5	Medium	2	2	1.25	-5.625
Erosion of soils and sedimentation of surface water features	Operation, decommissioning, rehab and closure	-1	1	2	2	2	2	-3.5	-1	1	2	2	2	2	-3.5	Medium	3	1	1.25	-4.375
Pollutants entering the surface water environment	Operation, decommissioning, rehab and closure	-1	5	2	5	5	1	-4.25	-1	5	2	5	5	1	-4.25	Medium	3	3	1.50	-6.375
Decrease in run-off	Operation, decommissioning, rehab and closure	-1	1	1	1	1	5	-5	-1	1	1	1	1	5	-5	High	1	1	1.00	-5
Flood risk	Operation, decommissioning, rehab and closure	-1	4	1	5	5	1	-3.75	-1	4	1	5	5	1	-3.75	Low	1	3	1.25	-4.6875
Noise impacts	Operation	-1	1	1	2	1	2	-2.5	-1	1	1	1	1	2	-2	Medium	1	1	1.00	-2
Noise impacts	Rehab and closure	-1	1	1	2	1	2	-2.5	-1	1	1	1	1	2	-2	Medium	1	1	1.00	-2
Visual Impact	Operation	-1	3	2	2	2	3	-6.75	-1	3	2	2	2	2	-4.5	High	1	1	1.00	-4.5
Visual Impact	Rehab and closure	-1	3	2	1	1	2	-3.5	-1	3	2	1	2	1	-2	High	1	1	1.00	-2
Siltation of water resources	Operation	-1	2	4	1	2	3	-6.75	-1	1	4	1	1	2	-3.5	High	2	1	1.13	-3.9375
Erosion of water resources	Operation	-1	2	4	1	2	3	-6.75	-1	1	4	1	1	2	-3.5	High	2	1	1.13	-3.9375
Altering of Hydrological Regime	Operation	-1	2	4	1	3	2	-5	-1	1	4	1	2	2	-4	High	2	1	1.13	-4.5
Proliferation of Alien Vegetation	Operation	-1	2	4	1	3	3	-7.5	-1	1	4	1	2	2	-4	High	2	1	1.13	-4.5
Impaired Water Quality	Operation	-1	2	4	1	3	2	-5	-1	1	4	1	2	1	-2	High	2	1	1.13	-2.25
Wetland disturbance and decrease in functionality	Operation	-1	2	4	1	3	2	-5	-1	1	4	1	1	2	-3.5	High	2	1	1.13	-3.9375
Phytoremediation for Groundwater Pollution	Operation	-1	3	4	3	3	2	-6.5	-1	2	3	2	2	2	-4.5	High	2	1	1.13	-5.0625
Safety aspects related to stability	Operation, decommissioning, rehab and closure	-1	3	4	5	3	3	-11.25	-1	3	4	4	4	2	-7.5	High	3	3	1.50	-11.25
Impact on livelihoods	Operation, decommissioning, rehab and closure	-1	3	4	5	3	3	-11.25	-1	3	4	4	4	2	-7.5	High	3	3	1.50	-11.25