Discipline	Impact	Alternative	Phase	Pre-Nature	Pre-Extent	Pre-Duration	Pre-Magnitude	Pre-Reversibility	Consequence	Pre-Probability	Pre-Mitigation Signific	Pre-Mitigation Signific	Post-Nature	Post-Extent	Post-Duration	Post-Magnitude	Post-Reversibility	Consequence2	Post-Probability	Post-mitigation Signifi	Post-Mitigation Signifi	Confidence	Cumulative Impact	Irreplaceable loss	Priority Factor	Final score
Palaeontology	Loss of fossil Heritage	Existing and Proposed	Construction	-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
Heritage	RBP001 – Disturbed below-ground heritage features The disturbance of below-ground heritage features through excavation of a pit - evident through the discovery of a MSA stone tool among soil deposits	Existing and Proposed	Construction and Oper	-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
Heritage	RBP001 – Potential further disturbance/destruction of in-situ heritage features The disturbance of a potential below-ground site through the construction of a PCD	Existing and Proposed	Construction	-1	2	5	2	5	-3.5	3	-10.5	Medium to high -	-1	2	5	2	5	-3.5	1	-3.5	Low -	Medium	1	2	1.13	-3.94
Heritage	RBP002 – Disturbed and Destroyed Iron Age Site The disturbance of an existing Late Iron Age site including the destruction of a Stone Wall Structure as well as material evidence including stone tools and ceramics	Existing and Proposed	Construction and Oper	-1	2	5	2	5	-3.5	5	-17.5	High -	-1	2	5	2	5	-3.5	2	-7	Medium to low -	Medium	2	2	1.25	-8.75
Heritage	Unidentified below-ground heritage features Destruction or disturbance of undiscovered below-ground heritage features.	Existing and Proposed	Construction	-1	1	5	4	5	-3.75	2	-7.5	Medium to low -	-1	1	1	2	3	-1.75	2	-3.5	Low -	Medium	1	2	1.13	-3.94
Soils and Agriculture	Loss of land capability; Soil degradation; soil fertility; Soil compaction; Soil contamination	Existing	Construction	-1	3	3	3	3	-3	2	-6	Medium to low -	-1	2	2	2	3	-2.25	1	-2.25	Low -	Medium	2	3	1.38	-3.09
Soils and Agriculture	Loss of land capability; Soil degradation; soil fertility; Soil compaction; Soil contamination	Existing	Operation	-1	2	3	2	2	-2.25	2	-4.5	Medium to low -	-1	2	2	2	1	-1.75	1	-1.75	Low -	Low	2	3	1.38	-2.41
Soils and Agriculture	Loss of land capability; Soil degradation; soil fertility; Soil compaction; Soil contamination	Existing	Decommissioning	-1	1	2	2	3	-2	2	-4	Low -	-1	1	2	1	3	-1.75	2	-3.5	Low -	Low	2	2	1.25	-4.38
Soils and Agriculture	Loss of land capability; Soil degradation; soil fertility; Soil compaction; Soil contamination	Existing	Rehab and closure	-1	1	2	2	2	-1.75	2	-3.5	Low -	-1	1	2	1	2	-1.5	1	-1.5	Low -	Low	1	2	1.13	-1.69
Soils and Agriculture	Loss of land capability; Soil degradation; soil fertility; Soil compaction; Soil contamination	Proposed	Construction	-1	3	2	3	3	-2.75	2	-5.5	Medium to low -	-1	2	2	2	3	-2.25	1	-2.25	Low -	Medium	2	2	1.25	-2.81
Soils and Agriculture	Loss of land capability; Soil degradation; soil fertility; Soil compaction; Soil contamination	Proposed	Operation	-1	2	3	2	2	-2.25	2	-4.5	Medium to low -	-1	2	2	2	1	-1.75	2	-3.5	Low -	Low	2	2	1.25	-4.38
Soils and Agriculture	Loss of land capability; Soil degradation; soil fertility; Soil compaction; Soil contamination	Proposed	Decommissioning	-1	1	2	2	2	-1.75	2	-3.5	Low -	-1	1	2	1	2	-1.5	1	-1.5	Low -	Low	1	2	1.13	-1.69
Soils and Agriculture	Loss of land capability; Soil degradation; soil fertility; Soil compaction; Soil contamination	Proposed	Rehab and closure	-1	1	2	2	2	-1.75	2	-3.5	Low -	-1	1	2	1	2	-1.5	1	-1.5	Low -	Low	1	2	1.13	-1.69
Hydropedology	Erosion due to overland flow	Proposed	Construction	-1	2	3	3	3	-2.75	3	-8.25	Medium to low -	-1	1	2	2	2	-1.75	2	-3.5	Low -	High	2	1	1.13	-3.94
Hydropedology	Decrease in subsurface flows and return flows	Proposed	Construction	-1	2	3	3	3	-2.75	3	-8.25	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	2	1	1.13	-4.50
Hydropedology	Erosion due to overland flow	Proposed	Operation	-1	1	2	2	2	-1.75	2	-3.5	Low -	-1	1	2	2	2	-1.75	1	-1.75	Low -	High	2	1	1.13	-1.97
Hydropedology	Decrease in subsurface flows and return flows	Proposed	Operation	-1	1	3	2	3	-2.25	2	-4.5	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	2	1	1.13	-4.50
Hydropedology	Erosion due to overland flow	Proposed	Rehab and Closure	-1	2	2	1	2	-1.75	2	-3.5	Low -	-1	1	1	1	1	-1	2	-2	Low -	High	2	1	1.13	-2.25
Hydropedology	Decrease in subsurface flows and return flows	Proposed	Rehab and Closure	-1	2	2	2	2	-2	2	-4	Low -	-1	1	1	1	1	-1	2	-2	Low -	High	2	1	1.13	-2.25
Hydropedology	Erosion due to overland flow	Existing	Construction	-1	2	2	3	3	-2.5	3	-7.5	Medium to low -	-1	1	2	2	2	-1.75	2	-3.5	Low -	Medium	2	1	1.13	-3.94
Hydropedology	Decrease in subsurface flows and return flows	Existing	Construction	-1	2	3	3	3	-2.75	3	-8.25	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	Medium	2	1	1.13	-4.50
Hydropedology	Erosion due to overland flow	Existing	Operation	-1	2	2	2	2	-2	3	-6	Medium to low -	-1	1	1	1	1	-1	2	-2	Low -	High	2	1	1.13	-2.25
Hydropedology	Decrease in subsurface flows and return flows	Existing	Operation	-1	2	3	2	2	-2.25	2	-4.5	Medium to low -	-1	1	2	1	1	-1.25	2	-2.5	Low -	High	2	1	1.13	-2.81
Hydropedology	Erosion due to overland flow	Existing	Rehab and Closure	-1	2	2	1	2	-1.75	2	-3.5	Low -	-1	1	1	1	1	-1	2	-2	Low -	Medium	2	1	1.13	-2.25
Hydropedology	Decrease in subsurface flows and return flows	Existing	Rehab and Closure	-1	2	2	2	2	-2	2	-4	Low -	-1	1	1	1	1	-1	2	-2	Low -	Medium	2	1	1.13	-2.25
Terrestrial	Destruction, loss and fragmentation of the vegetation community	Proposed	Construction	-1	2	5	3	3	-3.25	5	-16.25	High -	-1	2	4	2	3	-2.75	4	-11	Medium to high -	High	2	2	1.25	-13.75
Terrestrial	Displacement of faunal community due to habitat loss, direct mortalities and disturbance (road collisions, noise, light, dust, vibration and poaching).	Proposed	Construction	-1	2	4	3	3	-3	4	-12	Medium to high -	-1	2	4	2	3	-2.75	4	-11	Medium to high -	High	2	1	1.13	-12.38
Terrestrial	Clearing of vegetation leading to soil erosion and loss of topsoil.	Proposed	Construction	-1	2	5	3	3	-3.25	4	-13	Medium to high -	-1	1	4	2	2	-2.25	3	-6.75	Medium to low -	High	2	2	1.25	-8.44
Terrestrial	Increased risk of contamination (soil and water resource) from fuel spills, construction waste, increased dustfall and hazardous materials.	Proposed	Construction	-1	2	4	3	3	-3	5	-15	High -	-1	2	4	3	3	-3	3	-9	Medium to high -	High	2	2	1.25	-11.25
Terrestrial	Introduction of alien species, especially plants	Proposed	Construction	-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
Terrestrial	Ongoing habitat destruction and disturbance to fauna from noise, dust, and artificial lighting.	Proposed	Operational	-1	2	4	3	3	-3	4	-12	Medium to high -	-1	2	4	2	3	-2.75	3	-8.25	Medium to low -	High	2	1	1.13	-9.28
Terrestrial	Increased human-wildlife conflicts due to habitat fragmentation (litter, pollution, road mortalities, poaching, etc.).	Proposed	Operational	-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
Terrestrial	Environmental pollution due to water/ plant drainage runoff and increased dustfall.	Proposed	Operational	-1	3	4	3	3	-3.25	4	-13	Medium to high -	-1	2	4	2	3	-2.75	3	-8.25	Medium to low -	High	2	2	1.25	-10.31
Terrestrial	Continued encroachment by alien and invasive plant species	Proposed	Operational	-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
Terrestrial	Increased risk of soil erosion and instability due to removal of infrastructure.	Proposed	Decommissioning	-1	2	3	3	3	-2.75	4	-11	Medium to high -	-1	1	2	2	3	-2	4	-8	Medium to low -	Medium	1	1	1.00	-8.00
Terrestrial	Ongoing habitat destruction and disturbance to fauna from noise, dust, and artificial lighting.	Proposed	Decommissioning	-1	2	3	3	3	-2.75	3	-8.25	Medium to low -	-1	1	2	2	2	-1.75	2	-3.5	Low -	High	2	1	1.13	-3.94
Terrestrial	Slow regrowth of natural vegetation and potential further spread of alien and invasive species.	Proposed	Rehab and Closure	-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
Terrestrial	Destruction, loss and fragmentation of the vegetation community	Existing	Construction	-1	2	5	4	3	-3.5	5	-17.5	High -	-1	2	4	3	3	-3	4	-12	Medium to high -	High	2	2	1.25	-15.00
Terrestrial	Displacement of faunal community due to habitat loss, direct mortalities and disturbance (road collisions, noise, light, dust, vibration and poaching).	Existing	Construction	-1	2	4	4	3	-3.25	5	-16.25	High -	-1	2	4	3	3	-3	4	-12	Medium to high -	High	2	1	1.13	-13.50
Terrestrial	Clearing of vegetation leading to soil erosion and loss of topsoil.	Existing	Construction	-1	2	5	4	3	-3.5	5	-17.5	High -	-1	2	4	4	2	-3	3	-9	Medium to high -	High	2	2	1.25	-11.25
Terrestrial	Increased risk of contamination (soil and water resource) from fuel spills, construction waste, increased dustfall and hazardous materials.	Existing	Construction	-1	2	4	3	3	-3	5	-15	High -	-1	2	4	3	3	-3	3	-9	Medium to high -	High	2	2	1.25	-11.25
Terrestrial	Introduction of alien species, especially plants	Existing	Construction	-1	2	5	3	3	-3.25	4	-13	Medium to high -	-1	2	2	2	2	-2	2	-4	Low -	High	2	1	1.13	-4.50

Discipline	Impact	Alternative	Phase	Pre-Nature	Pre-Extent	Pre-Duration	Pre-Magnitude	Pre-Reversibility	Consequence	Pre-Probability	Pre-Mitigation Signific	Pre-Mitigation Signific	Post-Nature	Post-Extent	Post-Duration	Post-Magnitude	Post-Reversibility	Consequence2	Post-Probability	Post-mitigation Signifi	Post-Mitigation Signifi	Confidence	Cumulative Impact	Irreplaceable loss	Priority Factor	Final score
Terrestrial	Ongoing habitat destruction and disturbance to fauna from noise, dust, and artificial lighting.	Existing	Operational	-1	2	5	4	3	-3.5	4	-14	High -	-1	2	4	2	3	-2.75	4	-11	Medium to high -	High	2	2	1.25	-13.75
Terrestrial	Increased human-wildlife conflicts due to habitat fragmentation (litter, pollution, road mortalities, poaching, etc.).	Existing	Operational	-1	2	4	3	3	-3	4	-12	Medium to high -	-1	2	4	2	3	-2.75	2	-5.5	Medium to low -	High	2	1	1.13	-6.19
Terrestrial	Environmental pollution due to water/ mine drainage runoff and increased dustfall.	Existing	Operational	-1	3	4	3	3	-3.25	5	-16.25	High -	-1	2	4	3	3	-3	4	-12	Medium to high -	High	2	2	1.25	-15.00
Terrestrial	Continued encroachment by alien and invasive plant species	Existing	Operational	-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
Terrestrial	Increased risk of soil erosion and instability due to removal of infrastructure.	Existing	Decommissioning	-1	2	3	4	3	-3	4	-12	Medium to high -	-1	1	2	2	3	-2	4	-8	Medium to low -	Medium	1	1	1.00	-8.00
Terrestrial	Ongoing habitat destruction and disturbance to fauna from noise, dust, and artificial lighting.	Existing	Decommissioning	-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
Terrestrial	Slow regrowth of natural vegetation and potential further spread of alien and invasive species.	Existing	Rehab and Closure	-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
Wetlands	Altered hydrology due to hardened surfaces and stormwater channelling.	Proposed	Construction	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Increased erosion and sedimentation.	Proposed	Construction	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Impaired water quality from contaminated runoff (machine oils, fuels and mixes) leading into wetlands.	Proposed	Construction	-1	2	3	3	3	-2.75	3	-8.25	Medium to low -	-1	2	2	3	3	-2.5	2	-5	Medium to low -	High	2	1	1.13	-5.63
Wetlands	Pollution and littering through inappropriate management of domestic and industrial waste.	Proposed	Construction	-1	2	3	2	3	-2.5	3	-7.5	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Proliferation of alien invasive species due to surrounding disturbances.	Proposed	Construction	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Altered hydrology due to hardened surfaces and stormwater channelling	Proposed	Operation	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Increased erosion and sedimentation	Proposed	Operation	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Potential contamination of wetlands from contaminated runoff and effluent discharge / overflows.	Proposed	Operation	-1	2	3	3	3	-2.75	3	-8.25	Medium to low -	-1	2	2	3	3	-2.5	2	-5	Medium to low -	High	2	1	1.13	-5.63
Wetlands	Pollution and littering through inappropriate management of waste	Proposed	Operation	-1	2	3	2	3	-2.5	3	-7.5	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Continued proliferation of alien invasive species	Proposed	Operation	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Altered hydrology due to hardened surfaces and stormwater channelling.	Proposed	Decommissioning	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Increased erosion and sedimentation.	Proposed	Decommissioning	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Impaired water quality from contaminated runoff (machine oils, fuels and mixes) leading into wetlands.	Proposed	Decommissioning	-1	2	3	3	3	-2.75	3	-8.25	Medium to low -	-1	2	2	3	3	-2.5	2	-5	Medium to low -	High	2	1	1.13	-5.63
Wetlands	Pollution and littering through inappropriate management of domestic and industrial waste.	Proposed	Decommissioning	-1	2	3	2	3	-2.5	3	-7.5	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Proliferation of alien invasive species due to surrounding disturbances.	Proposed	Decommissioning	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00
Wetlands	Loss of native wetland vegetation and shift in vegetation composition.	Existing	Construction	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	1	2	-1.75	2	-3.5	Low -	High	1	1	1.00	-3.50
Wetlands	Possible changes in water movement and infiltration due to compaction.	Existing	Construction	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	1	2	-1.75	2	-3.5	Low -	High	1	1	1.00	-3.50
Wetlands	Reduced soil permeability leading to concentrated flows and increased erosion.	Existing	Construction	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	1	2	-1.75	2	-3.5	Low -	High	1	1	1.00	-3.50
Wetlands	Wetland degradation and reduced habitat quality.	Existing	Construction	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	1	2	-1.75	2	-3.5	Low -	High	1	1	1.00	-3.50
Wetlands	Wetland contamination, especially from hydrocarbons and cementitious materials from spills and leaks of diesel tanks and construction machinery.	Existing	Construction	-1	2	3	3	3	-2.75	3	-8.25	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	2	1	1.13	-4.50
Wetlands	Potential contamination of soil and water if septic systems fail or leak.	Existing	Construction	-1	2	3	4	3	-3	3	-9	Medium to high -	-1	2	2	3	2	-2.25	2	-4.5	Medium to low -	High	2	1	1.13	-5.06
Wetlands	Improvement of infiltration and reduction in runoff/erosion potential	Existing	Rehab and Closure	1	2	2	1	2	1.75	2	3.5	Low +	1	2	2	1	2	1.75	3	5.25	Low to medium +	High	1	1	1.00	5.25
Wetlands	Elimination of ongoing disturbance, allowing natural recovery; may cause short-term soil disturbance during removal.	Existing	Rehab and Closure	-1	2	2	1	2	-1.75	2	-3.5	Low -	-1	2	2	1	2	-1.75	1	-1.75	Low -	High	1	1	1.00	-1.75
Wetlands	Ongoing vegetation suppression around the Batch Plant increasing risk of the establishment of alien or weed species.	Existing	Operation	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	1	2	-1.75	2	-3.5	Low -	High	1	1	1.00	-3.50
Wetlands	Hardened surfaces leading to increased flows.	Existing	Operation	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	1	2	-1.75	2	-3.5	Low -	High	1	1	1.00	-3.50
Wetlands	Soil compaction and alteration of overland flows leading to erosion	Existing	Operation	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	1	2	-1.75	2	-3.5	Low -	High	1	1	1.00	-3.50
Wetlands	Impaired water quality from contaminated runoff entering the wetland.	Existing	Operation	-1	2	3	3	3	-2.75	3	-8.25	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	2	1	1.13	-4.50
Wetlands	Wetland degradation and reduced habitat quality.	Existing	Operation	-1	2	3	2	2	-2.25	3	-6.75	Medium to low -	-1	2	2	2	2	-2	2	-4	Low -	High	1	1	1.00	-4.00