| Identifier | Discipline | Impact | Phase | Event | Pre-Nature | Pre-Extent | Pre-Duration | Pre-Magnitude | Pre-Reversibility | Consequence | Pre-Probability | Pre-Mitigation Significance1 | Pre-Mitigation Significance | Post-Nature | Post-Extent | Post-Duration | Post-Magnitude | Post-Reversibility | Consequence2 | Post-Probability | Post-mitigation Significance | Pre-Mitigation Significance2 | Confidence | Cumulative Impact | Irreplaceable loss | Priority Factor | Final score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Heritage | Impact on Stone tools | Construction | Normal operations or | -1 | 1 | 1 | 1 | 2 | -1,25 | 4 | -5 | Medium to low - | -1 | 1 | 1 | 1 | 2 | -1,25 | 4 | -5 | Medium to low - | High | 1 | 2 | 1,13 | -5,63 |
| 2 | Heritage | Impact no Structures | Construction | Normal operations or | -1 | 2 | 5 | 2 | 2 | -2,75 | 2 | -5,5 | Medium to low - | -1 | 1 | 5 | 1 | 2 | -2,25 | 1 | -2,25 | Low - | Medium | 2 | 1 | 1,13 | -2,53 |
| 3 | Social | Employment, skills development and procurement opportunities | Construction | Normal operations or | 1 | 3 | 2 | 3 | 2 | 2,5 | 4 | 10 | Medium to high + | 1 | 3 | 3 | 3 | 2 | 2,75 | 4 | 11 | Medium to high + | Medium | 1 | 1 | 1,00 | 11,00 |
| 4 | Social | Influx of jobseekers and opportunistic settlement | Construction | Normal operations or | -1 | 3 | 3 | 4 | 3 | -3,25 | 3 | -9,75 | Medium to high - | -1 | 2 | 2 | 2 | 2 | -2 | 2 | -4 | Low - | Medium | 2 | 1 | 1,13 | -4,50 |
| 5 | Social | Nuisance: dust, noise, traffic and visual intrusion | Construction | Normal operations or | -1 | 3 | 2 | 3 | 2 | -2,5 | 4 | -10 | Medium to high - | -1 | 2 | 2 | 2 | 1 | -1,75 | 2 | -3,5 | Low - | High | 2 | 1 | 1,13 | -3,94 |
| 6 | Social | Community safety, crime and infrastructure theft | Construction | Normal operations or | -1 | 3 | 3 | 4 | 4 | -3,5 | 5 | -17,5 | High - | -1 | 3 | 3 | 3 | 3 | -3 | 4 | -12 | Medium to high - | Medium | 2 | 1 | 1,13 | -13,50 |
| 7 | Social | Impacts on farming livelihoods and shared water sources | Construction | Normal operations or | -1 | 3 | 2 | 4 | 3 | -3 | 4 | -12 | Medium to high - | -1 | 2 | 2 | 2 | 2 | -2 | 2 | -4 | Low - | Medium | 2 | 1 | 1,13 | -4,50 |
| 8 | Social | Access and disturbance through / past Deelkraal Village | Construction | Normal operations or | -1 | 2 | 2 | 4 | 2 | -2,5 | 4 | -10 | Medium to high - | -1 | 2 | 2 | 2 | 1 | -1,75 | 2 | -3,5 | Low - | Medium | 1 | 1 | 1,00 | -3,50 |
| 9 | Social | Potential displacement / livelihood loss of informal occupiers | Construction | Normal operations or events | -1 | 2 | 4 | 5 | 4 | -3,75 | 5 | -18,75 | High - | -1 | 2 | 3 | 3 | 3 | -2,75 | 4 | -11 | Medium to high - | Medium | 1 | 2 | 1,13 | -12,38 |
| 10 | Social | Long-term employment and procurement opportunities | Operation | Normal operations or events | 1 | 3 | 4 | 3 | 2 | 3 | 4 | 12 | Medium to high + | 1 | 3 | 4 | 3 | 3 | 3,25 | 4 | 13 | Medium to high + | Medium | 1 | 1 | 1,00 | 13,00 |
| 11 | Social | Continued nuisance (dust and visual intrusion) | Operation | Normal operations or events | -1 | 3 | 4 | 3 | 2 | -3 | 4 | -12 | Medium to high - | -1 | 2 | 3 | 2 | 1 | -2 | 2 | -4 | Low - | High | 2 | 1 | 1,13 | -4,50 |
| 12 | Social | Fear of, and exposure to, TSF / pipeline failure and seepage | Operation | Normal operations or events | -1 | 4 | 4 | 4 | 4 | -4 | 5 | -20 | High - | -1 | 4 | 4 | 3 | 3 | -3,5 | 3 | -10,5 | Medium to high - | Medium | 2 | 2 | 1,25 | -13,13 |
| 13 | Social | Cumulative impact on an already-stressed environment | Operation | Normal operations or events | -1 | 4 | 4 | 3 | 2 | -3,25 | 4 | -13 | Medium to high - | -1 | 4 | 4 | 3 | 2 | -3,25 | 3 | -9,75 | Medium to high - | Medium | 3 | 2 | 1,38 | -13,41 |
| 14 | Visual | The proposed development could change the character of the landscape (Landscape Change) | Construction | Normal operations or events | -1 | 1 | 2 | 2 | 3 | -2 | 2 | -4 | Low - | -1 | 1 | 2 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | Medium | 1 | 1 | 1,00 | -3,50 |
| 15 | Visual | The proposed development could change the character of the landscape (Landscape Change) | Operation | Normal operations or events | -1 | 3 | 3 | 3 | 3 | -3 | 2 | -6 | Medium to low - | -1 | 3 | 2 | 2 | 3 | -2,5 | 2 | -5 | Medium to low - | Medium | 2 | 1 | 1,13 | -5,63 |
| 16 | Visual | The proposed development could change the character of the landscape as viewed from Main Roads (N12 and R501) | Operation | Normal operations or events | -1 | 3 | 3 | 3 | 3 | -3 | 2 | -6 | Medium to low - | -1 | 3 | 2 | 2 | 3 | -2,5 | 2 | -5 | Medium to low - | Medium | 2 | 1 | 1,13 | -5,63 |
| 17 | Visual | Change in the character of views as experienced by travelers on local mine roads in close proximity to the proposed project | Construction | Normal operations or events | -1 | 2 | 2 | 2 | 3 | -2,25 | 2 | -4,5 | Medium to low - | -1 | 1 | 2 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | Medium | 1 | 1 | 1,00 | -3,50 |
| 18 | Visual | Change in the character of views as experienced by travelers on local mine roads in close proximity to the proposed project | Operation | Normal operations or events | -1 | 2 | 4 | 3 | 3 | -3 | 3 | -9 | Medium to high - | -1 | 2 | 4 | 1 | 3 | -2,5 | 2 | -5 | Medium to low - | Medium | 1 | 1 | 1,00 | -5,00 |
| 19 | Visual | The proposed development could change the character of the landscape as viewed from the Boskopdam Nature Reserve | Operation | Normal operations or events | -1 | 3 | 3 | 2 | 2 | -2,5 | 2 | -5 | Medium to low - | -1 | 3 | 2 | 1 | 2 | -2 | 2 | -4 | Low - | Medium | 1 | 1 | 1,00 | -4,00 |
| 20 | Visual | The proposed development could Change in the character of views as experienced by visitors to the Deelkraal Passive Recreation Area | Construction | Normal operations or events | -1 | 1 | 2 | 3 | 3 | -2,25 | 2 | -4,5 | Medium to low - | -1 | 1 | 2 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | Medium | 1 | 1 | 1,00 | -3,50 |
| 21 | Visual | The proposed development could Change in the character of views as experienced by visitors to the Deelkraal Passive Recreation Area | Operation | Normal operations or events | -1 | 2 | 4 | 3 | 3 | -3 | 3 | -9 | Medium to high - | -1 | 2 | 4 | 1 | 3 | -2,5 | 3 | -7,5 | Medium to low - | Medium | 2 | 1 | 1,13 | -8,44 |
| 22 | Visual | The proposed development could Change in the character of views as experienced by residents of local mine villages including Elandsridge, Deelkraal and Wedelia | Construction | Normal operations or events | -1 | 2 | 2 | 2 | 2 | -2 | 2 | -4 | Low - | -1 | 2 | 2 | 1 | 2 | -1,75 | 1 | -1,75 | Low - | Medium | 1 | 1 | 1,00 | -1,75 |
| 23 | Visual | The proposed development could Change in the character of views as experienced by residents of local mine villages including Elandsridge, Deelkraal and Wedelia | Operation | Normal operations or events | -1 | 2 | 4 | 2 | 2 | -2,5 | 2 | -5 | Medium to low - | -1 | 2 | 4 | 1 | 2 | -2,25 | 1 | -2,25 | Low - | Medium | 1 | 1 | 1,00 | -2,25 |
| 24 | Visual | Change in the character of views as experienced by residents of homesteads within the areas to the north and south of the area of ridgelines and valleys | Operation | Normal operations or events | -1 | 3 | 3 | 3 | 3 | -3 | 2 | -6 | Medium to low - | -1 | 3 | 2 | 2 | 3 | -2,5 | 2 | -5 | Medium to low - | Medium | 2 | 1 | 1,13 | -5,63 |
| 25 | Visual | Lighting within the proposed development could cause light pollution and nuisance for neighbours | Construction | Normal operations or events | -1 | 2 | 1 | 3 | 1 | -1,75 | 2 | -3,5 | Low - | -1 | 2 | 1 | 1 | 1 | -1,25 | 1 | -1,25 | Low - | Medium | 1 | 1 | 1,00 | -1,25 |
| 26 | Visual | Lighting within the proposed development could cause light pollution and nuisance for neighbours | Operation | Normal operations or events | -1 | 2 | 1 | 3 | 1 | -1,75 | 2 | -3,5 | Low - | -1 | 2 | 1 | 1 | 1 | -1,25 | 1 | -1,25 | Low - | Medium | 1 | 1 | 1,00 | -1,25 |
| 27 | Groundwater | Groundwater contamination from remining of existing TSF's | Construction | Normal operations or events | -1 | 1 | 3 | 1 | 2 | -1,75 | 2 | -3,5 | Low - | -1 | 1 | 2 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | Medium | 1 | 1 | 1,00 | -3,50 |
| 28 | Groundwater | Groundwater contamination from from new TSF & RWD | Construction | Normal operations or events | -1 | 1 | 3 | 1 | 2 | -1,75 | 2 | -3,5 | Low - | -1 | 1 | 2 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | Medium | 1 | 1 | 1,00 | -3,50 |
| 29 | Groundwater | Groundwater contamination from remining of existing TSF's | Operation | Normal operations or events | -1 | 2 | 4 | 3 | 3 | -3 | 4 | -12 | Medium to high - | -1 | 1 | 2 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | Medium | 2 | 1 | 1,13 | -3,94 |
| 30 | Groundwater | Groundwater contamination from from new TSF & RWD | Operation | Normal operations or events | -1 | 2 | 4 | 3 | 3 | -3 | 4 | -12 | Medium to high - | -1 | 1 | 2 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | Medium | 2 | 1 | 1,13 | -3,94 |

| Identifier | Discipline | Impact | Phase | Event | Pre-Nature | Pre-Extent | Pre-Duration | Pre-Magnitude | Pre-Reversibility | Consequence | Pre-Probability | Pre-Mitigation Significance1 | Pre-Mitigation Significance | Post-Nature | Post-Extent | Post-Duration | Post-Magnitude | Post-Reversibility | Consequence2 | Post-Probability | Post-mitigation Significance | Pre-Mitigation Significance2 | Confidence | Cumulative Impact | Irreplaceable loss | Priority Factor | Final score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 31 | Groundwater | Groundwater contamination from remining of existing TSF's | Decommissioning | Normal operations or events | -1 | 2 | 2 | 2 | 2 | -2 | 4 | -8 | Medium to low - | -1 | 1 | 1 | 1 | 2 | -1,25 | 2 | -2,5 | Low - | Medium | 1 | 1 | 1,00 | -2,50 |
| 32 | Groundwater | Groundwater contamination from from new TSF & RWD | Decommissioning | Normal operations or events | -1 | 2 | 4 | 2 | 2 | -2,5 | 4 | -10 | Medium to high - | -1 | 1 | 2 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | Medium | 2 | 1 | 1,13 | -3,94 |
| 33 | Surface Water | Erosion of soils | Construction | Normal operations or events | -1 | 4 | 4 | 3 | 3 | -3,5 | 4 | -14 | High - | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | Medium | 3 | 1 | 1,25 | -8,44 |
| 34 | Surface Water | Erosion of soils | Rehab and Closure | Normal operations or events | -1 | 4 | 4 | 3 | 3 | -3,5 | 5 | -17,5 | High - | -1 | 3 | 2 | 2 | 2 | -2,25 | 4 | -9 | Medium to high - | Medium | 3 | 1 | 1,25 | -11,25 |
| 35 | Surface Water | Erosion of soils | Operation | Normal operations or events | -1 | 3 | 4 | 2 | 2 | -2,75 | 4 | -11 | Medium to high - | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | Medium | 3 | 1 | 1,25 | -8,44 |
| 36 | Surface Water | Erosion of soils | Decommissioning | Normal operations or events | -1 | 3 | 4 | 2 | 2 | -2,75 | 5 | -13,75 | Medium to high - | -1 | 3 | 2 | 2 | 2 | -2,25 | 4 | -9 | Medium to high - | Medium | 3 | 1 | 1,25 | -11,25 |
| 37 | Surface Water | Pollutants entering the surface water environment | Construction | Normal operations or events | -1 | 5 | 2 | 3 | 3 | -3,25 | 4 | -13 | Medium to high - | -1 | 4 | 1 | 1 | 3 | -2,25 | 2 | -4,5 | Medium to low - | Medium | 3 | 1 | 1,25 | -5,63 |
| 38 | Surface Water | Pollutants entering the surface water environment | Operation | Normal operations or events | -1 | 5 | 4 | 5 | 5 | **-4,75** | 3 | -14,25 | High - | -1 | 4 | 2 | 5 | 5 | **-4** | 2 | -8 | Medium to low - | Medium | 3 | 3 | 1,50 | -12,00 |
| 39 | Surface Water | Pollutants entering the surface water environment | Decommissioning | Normal operations or events | -1 | 5 | 2 | 5 | 5 | **-4,25** | 3 | -12,75 | Medium to high - | -1 | 4 | 2 | 5 | 5 | **-4** | 2 | -8 | Medium to low - | Medium | 3 | 3 | 1,50 | -12,00 |
| 40 | Surface Water | Pollutants entering the surface water environment | Rehab and Closure | Normal operations or events | -1 | 5 | 2 | 4 | 4 | -3,75 | 4 | -15 | High - | -1 | 4 | 2 | 3 | 4 | -3,25 | 2 | -6,5 | Medium to low - | Medium | 3 | 2 | 1,38 | -8,94 |
| 41 | Surface water | Decrease in runoff | Construction | Normal operations or events | -1 | 4 | 4 | 2 | 5 | -3,75 | 5 | -18,75 | High - | -1 | 4 | 4 | 2 | 5 | -3,75 | 5 | -18,75 | High - | High | 3 | 1 | 1,25 | -23,44 |
| 44 | Surface water | Decrease in runoff | Rehab and Closure | Normal operations or events | -1 | 4 | 4 | 2 | 5 | -3,75 | 5 | -18,75 | High - | -1 | 1 | 1 | 1 | 1 | -1 | 5 | -5 | Medium to low - | High | 3 | 1 | 1,25 | -6,25 |
| 45 | Surface water | Flood risk | Construction | Normal operations or events | -1 | 4 | 1 | 5 | 5 | -3,75 | 2 | -7,5 | Medium to low - | -1 | 4 | 1 | 5 | 5 | -3,75 | 1 | -3,75 | Low - | Medium | 1 | 3 | 1,25 | -4,69 |
| 46 | Noise | Incremental increase in noise levels exceeding noise criteria at potential sensitive receptors (i.e. residential areas and individual dwellings) | Construction | Normal operations or events | -1 | 2 | 2 | 3 | 1 | -2 | 4 | -8 | Medium to low - | -1 | 2 | 2 | 3 | 1 | -2 | 3 | -6 | Medium to low - | Medium | 2 | 1 | 1,13 | -6,75 |
| 47 | Noise | Incremental increase in noise levels exceeding noise criteria at potential sensitive receptors (i.e. residential areas and individual dwellings) | Operation | Normal operations or events | -1 | 2 | 4 | 3 | 1 | -2,5 | 4 | -10 | Medium to high - | -1 | 2 | 4 | 3 | 1 | -2,5 | 3 | -7,5 | Medium to low - | Medium | 2 | 1 | 1,13 | -8,44 |
| 48 | Noise | Incremental increase in noise levels exceeding noise criteria at potential sensitive receptors (i.e. residential areas and individual dwellings) | Decommissioning | Normal operations or events | -1 | 2 | 2 | 3 | 1 | -2 | 4 | -8 | Medium to low - | -1 | 2 | 2 | 3 | 1 | -2 | 3 | -6 | Medium to low - | Medium | 2 | 1 | 1,13 | -6,75 |
| 49 | Paleontolgoy | Loss of fossil Herita | Construction | Normal operations or events | -1 | 1 | 5 | 4 | 5 | -3,75 | 3 | -11,25 | Medium to high - | -1 | 1 | 5 | 1 | 5 | -3 | 2 | -6 | Medium to low - | Medium | 1 | 3 | 1,25 | -7,50 |
| 50 | Radiation | Exhalation and dispersion of radon gas to the atmosphere during the operational phase of the Project | Operation | Normal operations or events | -1 | 2 | 5 | 1 | 3 | -2,75 | 2 | -5,5 | Medium to low - | -1 | 2 | 5 | 1 | 3 | -2,75 | 1 | -2,75 | Low - | High | 1 | 1 | 1,00 | -2,75 |
| 51 | Radiation | Emission and dispersion of particulate matter that contains radionuclides to the atmosphere during the operational phase of the Project | Operation | Normal operations or events | -1 | 2 | 5 | 1 | 2 | -2,5 | 2 | -5 | Medium to low - | -1 | 2 | 5 | 1 | 2 | -2,5 | 1 | -2,5 | Low - | High | 1 | 1 | 1,00 | -2,50 |
| 52 | Radiation | Impact significance rating for the retreatment of the existing TSFs during the operational phase of the Project. | Operation | Normal operations or events | 1 | 2 | 5 | 2 | 3 | 3 | 2 | 6 | Low to medium + | 1 | 2 | 5 | 3 | 3 | 3,25 | 3 | 9,75 | Medium to high + | High | 1 | 1 | 1,00 | 9,75 |
| 53 | Radiation | Implementation of the NNR-approved decommissioning plan of the Project | Decommissioning | Normal operations or events | 1 | 2 | 5 | 4 | 5 | 4 | 4 | 16 | High + | 1 | 2 | 5 | 4 | 5 | 4 | 4 | 16 | High + | High | 1 | 1 | 1,00 | 16,00 |
| 54 | Radiation | Impact significance rating for the exhalation, emission and dispersion of radon gas and particulate matter that contains radionuclides during the post-closure phase of the Project. | Rehab and Closure | Normal operations or events | -1 | 2 | 5 | 1 | 2 | -2,5 | 2 | -5 | Medium to low - | -1 | 2 | 5 | 1 | 2 | -2,5 | 1 | -2,5 | Low - | High | 1 | 1 | 1,00 | -2,50 |
| 55 | Radiation | Impact significance rating for the leaching and migration of radionuclides from the TSFs during the post-closure phase of the Project. | Rehab and Closure | Normal operations or events | -1 | 3 | 5 | 1 | 3 | -3 | 2 | -6 | Medium to low - | -1 | 3 | 5 | 1 | 2 | -2,75 | 2 | -5,5 | Medium to low - | High | 1 | 1 | 1,00 | -5,50 |
| 56 | Soils | Permanent loss of the affected land to agricultural use, including the informal free-range livestock grazing currently practised by local communities. Because the land is of moderate potential and partly already disturbed, the loss is locally real but of limited regional agricultural value. | Operation | Normal operations or events | -1 | 2 | 5 | 3 | 4 | -3,5 | 5 | -17,5 | High - | -1 | 2 | 4 | 2 | 4 | -3 | 5 | -15 | High - | High | 2 | 1 | 1,00 | -15,00 |
| 57 | Soils | Loss or degradation of the available topsoil resource required for rehabilitation, reducing the quality of the growth medium for re-establishing post-closure grazing. | Construction | Normal operations or events | -1 | 2 | 3 | 2 | 2 | -2,25 | 4 | -9 | Medium to high - | -1 | 1 | 2 | 2 | 1 | -1,5 | 2 | -3 | Low - | Medium | 2 | 1 | 1,00 | -3,00 |

| Identifier | Discipline | Impact | Phase | Event | Pre-Nature | Pre-Extent | Pre-Duration | Pre-Magnitude | Pre-Reversibility | Consequence | Pre-Probability | Pre-Mitigation Significance1 | Pre-Mitigation Significance | Post-Nature | Post-Extent | Post-Duration | Post-Magnitude | Post-Reversibility | Consequence2 | Post-Probability | Post-mitigation Significance | Pre-Mitigation Significance2 | Confidence | Cumulative Impact | Irreplaceable loss | Priority Factor | Final score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 58 | Soils | Localised permanent alteration of natural soil profiles reduces future land capability in earthworks areas; the effect is tempered by the moderate baseline potential and existing disturbance. | Construction | Normal operations or events | -1 | 2 | 4 | 2 | 3 | -2,75 | 4 | -11 | Medium to high - | -1 | 1 | 4 | 2 | 3 | -2,5 | 2 | -5 | Medium to low - | High | 2 | 2 | 1,25 | -6,25 |
| 59 | Soils | Reduced infiltration, aeration and root penetration in compacted areas, temporarily lowering grazing and soil productivity until ripped and rehabilitated. | Construction | Normal operations or events | -1 | 2 | 3 | 2 | 3 | -2,5 | 4 | -10 | Medium to high - | -1 | 1 | 2 | 1 | 2 | -1,5 | 2 | -3 | Low - | High | 1 | 1 | 1,00 | -3,00 |
| 60 | Soils | Erosion and sediment loss from exposed areas and altered drainage can degrade surrounding soils and downslope grazing land if left uncontrolled. | Construction | Normal operations or events | -1 | 2 | 3 | 2 | 3 | -2,5 | 4 | -10 | Medium to high - | -1 | 2 | 2 | 2 | 2 | -2 | 3 | -6 | Medium to low - | Medium | 2 | 1 | 1,13 | -6,75 |
| 61 | Soils | Localised soil contamination may alter soil chemistry and reduce fertility, constraining future agricultural or grazing use in affected areas. | Operation | Normal operations or events | -1 | 2 | 3 | 2 | 3 | -2,5 | 3 | -7,5 | Medium to low - | -1 | 1 | 2 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | Medium | 2 | 1 | 1,00 | -3,50 |
| 62 | Soils | Dust deposition may reduce vegetation performance and grazing quality on nearby land and marginally reduce the condition of the soil surface. | Operation | 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 | 1 | 1 | 1,00 | -3,75 |
| 63 | Soils | Short-term additional soil disturbance during closure; readily managed and outweighed by the stabilisation benefits of correct reshaping. | Rehab and Closure | Normal operations or events | -1 | 2 | 2 | 2 | 2 | -2 | 3 | -6 | Medium to low - | -1 | 1 | 1 | 1 | 1 | -1 | 3 | -3 | Low - | High | 1 | 1 | 1,00 | -3,00 |
| 64 | Soils | Well-managed rehabilitation restores soil stability and re-establishes limited grazing potential on disturbed land; poor rehabilitation would leave low capability and ongoing erosion. (Positive impact where managed correctly.) | Rehab and Closure | Normal operations or events | -1 | 2 | 4 | 2 | 3 | -2,75 | 3 | -8,25 | Medium to low - | 1 | 2 | 4 | 3 | 2 | 2,75 | 3 | 8,25 | Low to medium + | Medium | 2 | 1 | 1,00 | 8,25 |
| 65 | Air Quality | Increase in air quality impacts due to upgrades at Kusasalethu min and deposition on Deelkraal II TSF | Operation | Normal operations or events | -1 | 3 | 4 | 3 | 2 | -3 | 4 | -12 | Medium to high - | -1 | 3 | 4 | 2 | 3 | -3 | 3 | -9 | Medium to high - | Medium | 1 | 1 | 1,00 | -9,00 |
| 66 | Aquatic/wetlands | Indirect loss, disturbance and degradation of wetlands | Construction | Normal operations or events | -1 | 1 | 1 | 2 | 2 | -1,5 | 3 | -4,5 | Medium to low - | -1 | 1 | 1 | 2 | 2 | -1,5 | 2 | -3 | Low - | High | 2 | 2 | 1,25 | -3,75 |
| 67 | Aquatic/wetlands | Increased bare surfaces, runoff and potential for erosion | Construction | Normal operations or events | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | -1 | 3 | 1 | 2 | 2 | -2 | 2 | -4 | Low - | High | 2 | 2 | 1,25 | -5,00 |
| 68 | Aquatic/wetlands | Degradation of wetland vegetation and the introduction and spread of alien and invasive vegetation | Construction | Normal operations or events | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | -1 | 2 | 1 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | High | 2 | 2 | 1,25 | -4,38 |
| 69 | Aquatic/wetlands | Increased sediment loads to downstream reaches | Construction | Normal operations or events | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | -1 | 2 | 1 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | High | 2 | 2 | 1,25 | -4,38 |
| 70 | Aquatic/wetlands | Contamination of wetlands with hydrocarbons due to machinery leaks and eutrophication of wetland systems with human sewerage and other waste | Construction | Normal operations or events | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | -1 | 2 | 1 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | High | 2 | 2 | 1,25 | -4,38 |
| 71 | Aquatic/wetlands | Alteration of hydrological regime | Construction | Normal operations or events | -1 | 3 | 1 | 2 | 2 | -2 | 3 | -6 | Medium to low - | -1 | 1 | 1 | 2 | 2 | -1,5 | 2 | -3 | Low - | High | 2 | 2 | 1,25 | -3,75 |
| 72 | Aquatic/wetlands | Degradation and demolition of wetlands due to TSF and intersecting infrastructure | Construction | Abnormal or unplanned events | -1 | 3 | 4 | 4 | 4 | -3,75 | 5 | -18,75 | High - | -1 | 2 | 4 | 4 | 3 | -3,25 | 4 | -13 | Medium to high - | High | 3 | 3 | 1,50 | -19,50 |
| 73 | Aquatic/wetlands | Increased water and pollutant inputs to wetlands | Operation | Normal operations or events | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | -1 | 2 | 1 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | High | 2 | 2 | 1,25 | -4,38 |
| 74 | Aquatic/wetlands | Alteration of hydrological regime and sediment loads to downstream reaches | Operation | Normal operations or events | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | -1 | 2 | 1 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | High | 2 | 2 | 1,25 | -4,38 |
| 75 | Aquatic/wetlands | Degradation of wetland vegetation and the introduction and spread of alien and invasive vegetation | Operation | Normal operations or events | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | -1 | 2 | 1 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | High | 2 | 2 | 1,25 | -4,38 |
| 76 | Aquatic/wetlands | Degradation and demolition of wetlands due to TSF and intersecting infrastructure | Operation | Abnormal or unplanned events | -1 | 3 | 4 | 4 | 4 | -3,75 | 5 | -18,75 | High - | -1 | 2 | 4 | 4 | 3 | -3,25 | 4 | -13 | Medium to high - | High | 3 | 3 | 1,50 | -19,50 |
| 77 | Aquatic/wetlands | Degradation of wetland vegetation and proliferation of alien and invasive species | Decommissioning | Normal operations or events | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | -1 | 2 | 1 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | High | 2 | 2 | 1,25 | -4,38 |
| 78 | Aquatic/wetlands | Disruption of wetland soil profile, hydrological regime and increased sediment loads | Decommissioning | Normal operations or events | -1 | 3 | 2 | 2 | 2 | -2,25 | 3 | -6,75 | Medium to low - | -1 | 2 | 1 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | High | 2 | 2 | 1,25 | -4,38 |
| 79 | Terrestrial Ecology | Destruction, further loss and fragmentation of the vegetation community | Construction | Normal operations or events | -1 | 3 | 4 | 3 | 3 | -3,25 | 4 | -13 | Medium to high - | -1 | 1 | 2 | 2 | 2 | -1,75 | 3 | -5,25 | Medium to low - | High | 1 | 1 | 1,00 | -5,25 |
| 80 | Terrestrial Ecology | Introduction of alien species, especially plants | Construction | Normal operations or events | -1 | 2 | 4 | 3 | 3 | -3 | 4 | -12 | Medium to high - | -1 | 1 | 2 | 2 | 2 | -1,75 | 2 | -3,5 | Low - | High | 1 | 1 | 1,00 | -3,50 |
| 81 | Terrestrial Ecology | Displacement of faunal community due to habitat loss, direct mortalities and disturbance (road collisions, noise, light, dust, vibration and poaching). | Construction | Normal operations or events | -1 | 3 | 4 | 4 | 3 | -3,5 | 4 | -14 | High - | -1 | 2 | 2 | 2 | 2 | -2 | 3 | -6 | Medium to low - | Medium | 1 | 1 | 1,00 | -6,00 |
| 82 | Terrestrial Ecology | Potential leaks, discharges, pollutant from machinery and storage leaching into the surrounding environment. | Construction | Normal operations or events | -1 | 3 | 3 | 4 | 4 | -3,5 | 4 | -14 | High - | -1 | 2 | 2 | 2 | 2 | -2 | 2 | -4 | Low - | High | 1 | 1 | 1,00 | -4,00 |
| 83 | Terrestrial Ecology | Continued encroachment of an indigenous vegetation community by alien invasive plant species as well as erosion due to disturbed soils | Operation | Normal operations or events | -1 | 3 | 4 | 3 | 3 | -3,25 | 3 | -9,75 | Medium to high - | 1 | 1 | 2 | 2 | 2 | 1,75 | 2 | 3,5 | Low + | Medium | 2 | 2 | 1,00 | 3,50 |

| Identifier | Discipline | Impact | Phase | Event | Pre-Nature | Pre-Extent | Pre-Duration | Pre-Magnitude | Pre-Reversibility | Consequence | Pre-Probability | Pre-Mitigation Significance1 | Pre-Mitigation Significance | Post-Nature | Post-Extent | Post-Duration | Post-Magnitude | Post-Reversibility | Consequence2 | Post-Probability | Post-mitigation Significance | Pre-Mitigation Significance2 | Confidence | Cumulative Impact | Irreplaceable loss | Priority Factor | Final score |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 84 | Terrestrial Ecology | Continued displacement and fragmentation of the faunal community (including threatened species) due to habitat degradation/loss. | Operation | Normal operations or events | -1 | 3 | 4 | 3 | 3 | -3,25 | 3 | -9,75 | Medium to high - | 1 | 1 | 2 | 2 | 2 | 1,75 | 2 | 3,5 | Low + | Medium | 2 | 2 | 1,00 | 3,50 |