

| 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 |
| Impacts on Visual Environment and Sense of Place  | Construction      | -1             | 3      | 2        | 2         | 2             | 2           | -4,5              | -1     | 3      | 2        | 2         | 2             | 2                        | -4,5               | Medium     | 1                 | 1                  | 1,00            | -4,5        |
| Impacts on Visual Environment and Sense of Place  | Operation         | -1             | 3      | 5        | 2         | 3             | 2           | -6,5              | -1     | 3      | 5        | 2         | 2             | 2                        | -6                 | High       | 2                 | 1                  | 1,13            | -6,75       |
| Impacts on Visual Environment and Sense of Place  | Rehab and closure | -1             | 3      | 2        | 1         | 2             | 2           | -4                | -1     | 3      | 2        | 1         | 2             | 2                        | -4                 | Medium     | 1                 | 1                  | 1,00            | -4          |
| Increase in air quality impacts due to construction of the TSF  | Construction      | -1             | 3      | 2        | 3         | 2             | 4           | -10               | -1     | 2      | 2        | 3         | 2             | 3                        | -6,75              | Medium     | 1                 | 1                  | 1,00            | -6,75       |
| Increase in air quality impacts due to the operation of Valley TSF  | Operation         | -1             | 3      | 4        | 3         | 4             | 3           | -10,5             | -1     | 3      | 4        | 2         | 3             | 3                        | -9                 | Medium     | 1                 | 1                  | 1,00            | -9          |
| Increase in air quality impacts due to decommissioning and closure  | 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       |
| Disturbance / destruction of sites of heritage significance   | Construction      | -1             | 1      | 2        | 1         | 3             | 2           | -3,5              | -1     | 1      | 2        | 1         | 2             | 1                        | -1,5               | Medium     | 1                 | 1                  | 1,00            | -1,5        |
| Disturbance / destruction of palaeontological resources   | Construction      | -1             | 1      | 5        | 4         | 5             | 4           | -15               | -1     | 1      | 5        | 2         | 5             | 2                        | 6,5                | Medium     | 1                 | 1                  | 1,00            | 6,5         |
| Employment opportunities  | Planning          | 1              | 3      | 2        | 1         | 1             | 3           | 5,25              | 1      | 2      | 1        | 1         | 4             | 3                        | 6                  | Medium     | 1                 | 1                  | 1,00            | 6           |
| Employment opportunities  | Construction      | 1              | 3      | 2        | 2         | 1             | 3           | 6                 | 1      | 2      | 2        | 1         | 4             | 3                        | 6,75               | Medium     | 1                 | 1                  | 1,00            | 6,75        |
| Employment opportunities  | Operation         | 1              | 3      | 4        | 4         | 1             | 3           | 9                 | 1      | 4      | 4        | 1         | 4             | 3                        | 9,75               | Medium     | 1                 | 1                  | 1,00            | 9,75        |
| Employment opportunities  | Decommissioning   | 1              | 3      | 2        | 2         | 1             | 3           | 6                 | 1      | 2      | 2        | 1         | 4             | 3                        | 6,75               | Medium     | 1                 | 1                  | 1,00            | 6,75        |
| Employment opportunities  | Rehab and closure | 1              | 3      | 2        | 2         | 1             | 3           | 6                 | 1      | 2      | 2        | 1         | 4             | 3                        | 6,75               | Medium     | 1                 | 1                  | 1,00            | 6,75        |
| Expectations regarding creation of opportunities  | Planning          | -1             | 3      | 2        | 2         | 5             | 2           | -6                | -1     | 3      | 2        | 1         | 5             | 2                        | -5,5               | Medium     | 1                 | 1                  | 1,00            | -5,5        |
| Impacts of traffic on people – dust, noise, safety – from a social and nuisance perspective   | Operation         | -1             | 3      | 2        | 2         | 5             | 2           | -6                | -1     | 3      | 2        | 1         | 5             | 2                        | -5,5               | Medium     | 1                 | 1                  | 1,00            | -5,5        |
| Negative perceptions relating to the risk of TSF failure.   | Operation         | -1             | 3      | 2        | 2         | 5             | 2           | -6                | -1     | 3      | 2        | 1         | 5             | 2                        | -5,5               | Medium     | 1                 | 1                  | 1,00            | -5,5        |
| Impacts on livelihoods of landowners.   | Operation         | -1             | 3      | 2        | 2         | 5             | 2           | -6                | -1     | 3      | 2        | 1         | 5             | 2                        | -5,5               | Medium     | 1                 | 1                  | 1,00            | -5,5        |
| Noise impacts   | Construction      | -1             | 1      | 1        | 2         | 1             | 2           | -2,5              | -1     | 1      | 1        | 1         | 1             | 2                        | -2                 | Medium     | 1                 | 1                  | 1,00            | -2          |
| 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   | Decommissioning   | -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          |
| Exhalation and dispersion of radon gas to the atmosphere during the operational phase of the Projects   | 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 during the operational phase  | 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          |
| Destruction, further loss and fragmentation of the habitats, ecosystems and vegetation community;   | Rehab and closure | -1             | 3      | 4        | 2         | 3             | 3           | -9                | -1     | 2      | 3        | 1         | 3             | 2                        | -4,5               | Medium     | 1                 | 1                  | 1,00            | -4,5        |
| Introduction of alien and invasive species, especially plants;  | Construction      | -1             | 3      | 4        | 3         | 2             | 3           | -9                | -1     | 2      | 3        | 3         | 2             | 2                        | -5                 | Medium     | 1                 | 1                  | 1,00            | -5          |
| Displacement of the indigenous faunal community (incl bird and bats) due to habitat loss, direct mortalities, and disturbance (road collisions, noise, dust, light, vibration, and poaching). | Construction      | -1             | 3      | 4        | 3         | 3             | 3           | -9,75             | -1     | 2      | 3        | 2         | 3             | 2                        | -5                 | Medium     | 1                 | 1                  | 1,00            | -5          |
| Continued fragmentation and degradation of habitats and ecosystems  | Operation         | -1             | 2      | 3        | 2         | 3             | 2           | -5                | -1     | 1      | 2        | 1         | 3             | 2                        | -3,5               | Medium     | 1                 | 1                  | 1,00            | -3,5        |
| Spread of alien and/or invasive species   | Operation         | -1             | 3      | 3        | 3         | 2             | 2           | -5,5              | -1     | 2      | 2        | 2         | 1             | 1                        | -1,75              | Medium     | 1                 | 1                  | 1,00            | -1,75       |
| Ongoing displacement and direct mortalities of the faunal community due to continued disturbance (road collisions, noise, light, dust, vibration, poaching, erosion, etc.).                   | Operation         | -1             | 3      | 4        | 3         | 3             | 2           | -6,5              | -1     | 2      | 3        | 2         | 2             | 1                        | -2,25              | Medium     | 1                 | 1                  | 1,00            | -2,25       |
| Loss of land capability   | Planning          | -1             | 1      | 1        | 1         | 2             | 1           | -1,25             | -1     | 1      | 1        | 1         | 1             | 1                        | -1                 | Low        | 1                 | 1                  | 1,00            | -1          |
| Soil compaction   | Construction      | -1             | 3      | 3        | 3         | 3             | 3           | -9                | -1     | 2      | 2        | 2         | 3             | 3                        | -6,75              | Medium     | 2                 | 3                  | 1,38            | -9,28125    |
| Soil erosion, Land degradation  | Operation         | -1             | 3      | 3        | 3         | 3             | 3           | -9                | -1     | 2      | 3        | 2         | 3             | 3                        | -7,5               | Medium     | 2                 | 3                  | 1,38            | -10,3125    |
| Soil erosion, Land degradation  | Decommissioning   | -1             | 2      | 2        | 2         | 3             | 3           | -6,75             | -1     | 2      | 2        | 1         | 3             | 2                        | -4                 | Low        | 2                 | 2                  | 1,25            | -5          |
| Soil erosion, Land degradation  | Rehab and closure | -1             | 2      | 2        | 2         | 2             | 2           | -4                | -1     | 2      | 2        | 1         | 2             | 1                        | -1,75              | Low        | 1                 | 2                  | 1,13            | -9,6875     |
| Direct loss, disturbance and degradation of wetlands.   | Construction      | -1             | 2      | 1        | 5         | 3             | 4           | -11               | -1     | 2      | 1        | 4         | 3             | 3                        | -7,5               | High       | 2                 | 2                  | 1,25            | -9,375      |
| Increased bare surfaces, runoff and potential for erosion   | Construction      | -1             | 2      | 1        | 3         | 3             | 3           | -6,75             | -1     | 2      | 1        | 2         | 3             | 3                        | -6                 | High       | 2                 | 2                  | 1,25            | -7,5        |
| Degradation of wetland vegetation and the introduction and spread of alien and invasive vegetation  | Construction      | -1             | 2      | 1        | 4         | 3             | 4           | -10               | -1     | 2      | 1        | 3         | 3             | 3                        | -6,75              | High       | 2                 | 2                  | 1,25            | -8,4375     |
| Increased sediment loads to downstream reaches  | Construction      | -1             | 2      | 1        | 3         | 3             | 3           | -6,75             | -1     | 2      | 1        | 2         | 3             | 3                        | -6                 | High       | 2                 | 2                  | 1,25            | -7,5        |
| Contamination of wetlands with hydrocarbons due to machinery leaks and eutrophication of wetland systems with human sewerage and other waste.   | Construction      | -1             | 2      | 1        | 3         | 3             | 2           | -4,5              | -1     | 2      | 1        | 2         | 3             | 2                        | -4                 | High       | 2                 | 2                  | 1,25            | -5          |
| Disruption of wetland soil profile and alteration of hydrological regime  | Construction      | -1             | 2      | 1        | 3         | 3             | 3           | -6,75             | -1     | 2      | 1        | 2         | 3             | 3                        | -6                 | High       | 2                 | 2                  | 1,25            | -7,5        |
| Increased water inputs (clean) to downstream wetlands   | Operation         | -1             | 2      | 4        | 2         | 3             | 3           | -8,25             | -1     | 2      | 4        | 2         | 3             | 3                        | -8,25              | High       | 2                 | 2                  | 1,25            | -10,3125    |
| Degradation of wetland vegetation and proliferation of alien and invasive species   | Decommissioning   | -1             | 2      | 1        | 4         | 3             | 4           | -10               | -1     | 2      | 1        | 3         | 3             | 3                        | -6,75              | High       | 2                 | 2                  | 1,25            | -8,4375     |
| Disruption of wetland soil profile, hydrological regime and increased sediment loads  | Decommissioning   | -1             | 2      | 1        | 3         | 3             | 3           | -6,75             | -1     | 2      | 1        | 2         | 3             | 3                        | -6                 | High       | 2                 | 2                  | 1,25            | -7,5        |
| Groundwater contamination - Valley TSF unlined (alternative 1)  | Operation         | -1             | 2      | 3        | 2         | 3             | 3           | -7,5              | -1     | 2      | 2        | 2         | 3             | 2                        | -4                 | Medium     | 2                 | 2                  | 1,25            | -5          |
| Cumulative groundwater contamination- Valley TSF unlined (alternative 1)  | Operation         | -1             | 3      | 4        | 3         | 3             | 4           | -13               | -1     | 2      | 3        | 3         | 3             | 4                        | -11                | Medium     | 2                 | 2                  | 1,25            | -13,75      |
| Groundwater contamination - Valley TSF lined (alternative 2)  | Operation         | -1             | 1      | 2        | 1         | 2             | 2           | -3                | -1     | 2      | 2        | 2         | 3             | 1                        | -2                 | Medium     | 2                 | 2                  | 1,25            | -2,5        |
| Cumulative groundwater contamination- Valley TSF lined (alternative 2)  | Operation         | -1             | 3      | 4        | 3         | 3             | 4           | -13               | -1     | 2      | 3        | 3         | 3             | 4                        | -11                | Medium     | 2                 | 2                  | 1,25            | -13,75      |
| Groundwater contamination - Valley TSF unlined (alternative 1)  | Decommissioning   | -1             | 3      | 4        | 3         | 3             | 4           | -13               | -1     | 2      | 3        | 3         | 3             | 4                        | -11                | Medium     | 2                 | 2                  | 1,25            | -5          |
| Cumulative groundwater contamination - Valley TSF unlined (alternative 1)   | Decommissioning   | -1             | 3      | 4        | 3         | 3             | 4           | -13               | -1     | 2      | 3        | 3         | 3             | 4                        | -11                | Medium     | 2                 | 2                  | 1,25            | -13,75      |
| Groundwater contamination - Valley TSF lined (alternative 2)  | Decommissioning   | -1             | 1      | 2        | 1         | 2             | 2           | -3                | -1     | 2      | 2        | 2         | 3             | 1                        | -2                 | Medium     | 2                 | 2                  | 1,25            | -2,5        |

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|---|-----------------|----|---|---|---|---|---|--|-----|----|---|---|---|---|---|-----|--------|--|---|---|------|--------|
| Cumulative groundwater contamination- Valley TSF lined<br>(alternative 2) | Decommissioning | -1 | 3 | 4 | 3 | 3 | 4 |  | -13 | -1 | 2 | 3 | 3 | 3 | 4 | -11 | Medium |  | 2 | 2 | 1,25 | -13,75 |
|---|-----------------|----|---|---|---|---|---|--|-----|----|---|---|---|---|---|-----|--------|--|---|---|------|--------|