

Table 4. Short-term Impacts, Mitigation Measures and Residual Impacts of Mining Operations

| Section | Impacted resource | Cause of impact | Primary receptor | Control Measures | Significance | | | | | | | | | | | | | | | Specific Monitoring Required? | Monitoring Program (defined in ESAP) | | | | | |
|----------|----------------------|-------------------------------|--------------------------|----------------------------------|---------------------------|---|---|---|---|--------------------------|---|---|---|---|-------------------------|---|---|---|---|-------------------------------|--------------------------------------|-------------|------------------------------|---|---|---|
| | | | | | Neg | | | | | Ranking Pos | | | | | Neg | | | | | | | Ranking Pos | | | | |
| | | | | | Short Term w/o Mitigation | | | | | Short Term w/ Mitigation | | | | | Long term w/ Mitigation | | | | | | | | | | | |
| | | | | | H | M | L | I | L | M | H | H | M | L | I | L | M | H | H | | | M | L | I | L | M |
| 6.4.1 | Climate | Warming | Land surface | Revegetation | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.2.1 | Air quality | CHP unit emissions | Residents | Equipment emission controls | | | | | | | | | | | | | | | | | | Yes | Emissions control monitoring | | | |
| 6.4.2.2 | Air quality | Fugitive emissions | Global | Revegetation | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.2.2 | Air quality | Plant emissions | Residents | Stack scrubbers | | | | | | | | | | | | | | | | | | Yes | Emissions control monitoring | | | |
| 6.4.2.2 | Air quality | Road emissions | Residents | Road watering/speed restrictions | | | | | | | | | | | | | | | | | | Yes | Safety inspections | | | |
| 6.4.2.2 | Air quality | Combined impacts | Residents | Revegetation/road watering/speed | | | | | | | | | | | | | | | | | | Yes | PM10 monitoring | | | |
| 6.4.2.3 | Air quality | Odors | Residents | Waste Management Planning | | | | | | | | | | | | | | | | | | Yes | Reports | | | |
| 6.4.3 | Noise | Project activities | Residents | Speed limits | | | | | | | | | | | | | | | | | | Yes | Safety inspections | | | |
| 6.4.3 | Noise | Project activities | Employees | Protective Hearing Equipment | | | | | | | | | | | | | | | | | | Yes | Safety inspections | | | |
| 6.4.4 | Topography/land form | Open Pits/waste storage | Land surface | Reclamation, grading, shaping | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.5 | Visual resources | Open Pits/waste storage | Residents | Reclamation/revegetation | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.6.1 | Geology | Construction/mining | Geologic structure | None | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.6.2 | Geology | ARD Characteristics | Land/surface water | No ARD potential | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.7.1 | Soils | Mining/construction | Topsoil | Salvage/stockpile/Reuse | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.7.2 | Soils | Erosion | Surface water | Sediment Control Structures | | | | | | | | | | | | | | | | | | Yes | | | | |
| 6.4.8.1 | Groundwater | Drawdown | Water supply wells | Monitoring/no drawdown in dry | | | | | | | | | | | | | | | | | | Yes | Groundwater monitoring | | | |
| 6.4.8.2 | Groundwater | Contamination | Water quality | Monitoring/alternate supply | | | | | | | | | | | | | | | | | | Yes | Groundwater monitoring | | | |
| 6.4.9.1 | Surface Water | Abstraction | Surface water | No abstraction in dry | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.9.2 | Surface Water | Contamination | Water quality | Treatment | | | | | | | | | | | | | | | | | | Yes | Surface Water monitoring | | | |
| 6.4.10 | Flora | Mining/plant construction | Flora communities | Reclamation | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.10 | Flora | Mining/plant construction | Sensitive flora habitats | Support to Dja reserve | | | | | | | | | | | | | | | | | | Yes | Biomonitoring | | | |
| 6.4.10 | Flora | Invasive species | Flora communities | Reclamation | | | | | | | | | | | | | | | | | | Yes | Invasive species control | | | |
| 6.4.10 | Flora | Off-site pressure | Flora communities | Strict supply contracts | | | | | | | | | | | | | | | | | | Yes | Timber type monitoring | | | |
| 6.4.11.1 | Fauna | Mining/plant construction | Loss of habitat | Support to Dja reserve | | | | | | | | | | | | | | | | | | Yes | | | | |
| 6.4.11.2 | Fauna | Increased hunting/mortalities | Fauna species | Restrictions/speed limits | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.11.3 | Fauna | Pest species | Disease vectors | Education/control/inspection | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.12.1 | Region Income | Direct employment | Project Labor Force | None | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.12.2 | Region Income | Land pressure | Residents | Support programs | | | | | | | | | | | | | | | | | | Yes | Social monitoring | | | |
| 6.4.12.3 | Region Income | Forest resources | Residents | Reclamation | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.12.4 | Region Income | Indirect employment | Local Labor Force | None | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.13 | Region Population | In-migration | Residents | Support programs | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.14 | Region Population | Public health and safety | Residents | Education/engineering controls | | | | | | | | | | | | | | | | | | No | | | | |
| 6.4.15 | Embankment Safety | Failure | Residents/surface water | Care and maintenance | | | | | | | | | | | | | | | | | | Yes | Physical inspection | | | |
| 6.4.18 | Cultural Property | Project activities | Residents | Education/salvage | | | | | | | | | | | | | | | | | | No | | | | |

H = High M = Moderate L = low I = Insignificant