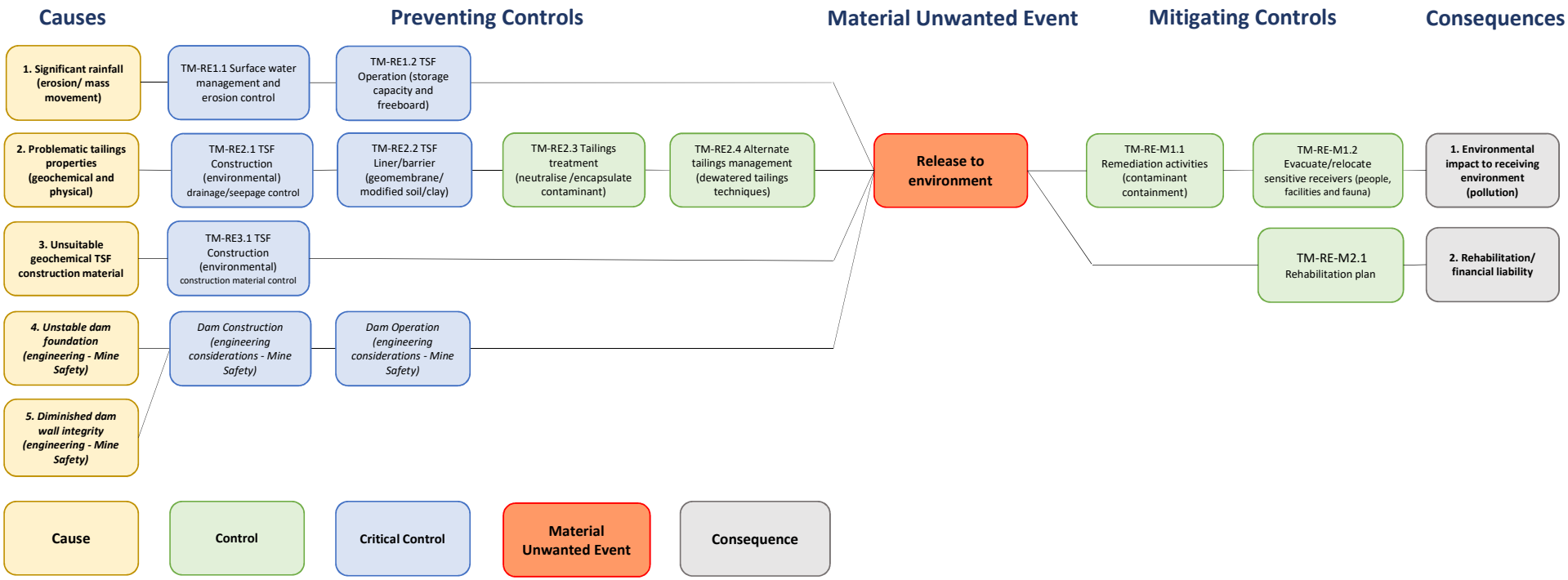
Causes
Preventing Controls
Material Unwanted Event
Mitigating Controls
Consequences
1. Significant rainfall (erosion/ mass movement)
TM-RE1.1 Surface water management and erosion control
TM-RE1.2 TSF Operation (storage capacity and freeboard)
2. Problematic tailings properties (geochemical and physical)
TM-RE2.1 TSF Construction (environmental) drainage/seepage control
TM-RE2.2 TSF Liner/barrier (geomembrane/ modified soil/clay)
TM-RE2.3 Tailings treatment (neutralise /encapsulate contaminant)
TM-RE2.4 Alternate tailings management (dewatered tailings techniques)
Release to environment
TM-RE-M1.1 Remediation activities (contaminant containment)
TM-RE-M1.2 Evacuate/relocate sensitive receivers (people, facilities and fauna)
1. Environmental impact to receiving environment (pollution)
3. Unsuitable geochemical TSF construction material
TM-RE3.1 TSF Construction (environmental) construction material control
TM-RE-M2.1 Rehabilitation plan
2. Rehabilitation/ financial liability
4. Unstable dam foundation (engineering - Mine Safety)
Dam Construction (engineering considerations - Mine Safety)
Dam Operation (engineering considerations - Mine Safety)
5. Diminished dam wall integrity (engineering - Mine Safety)
Cause
Control
Critical Control
Material Unwanted Event
Consequence