|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Dam Summary Information Sheet** | | | | | | | | | | | A blue and orange logo  Description automatically generated |
| **General Dam Information** | | | | | | | | | | | |
| **Name of Dam** | | *Hera Tailings Dam* | | | | | | | | ***Dam ID Number*** | *1138* |
| **Description/Purpose** | | *Embankment Dam to impound mineral residue*  *The design is for central deposition of thickened tailings via a mound to form a runoff shedding landform. The mound is contained by a perimeter embankment. The embankment has a spillway of which directs overflow water via open lined channel to a lined containment pond for decant water.*  *An emergency spillway is located within the embankment wall of the WMD (decant dam) from which discharge to the receiving environment would be monitored in extreme rain events.*  *The TSF is currently in Care and Maintenance and not receiving operational tailings. It is being used as a water evaporation area to minimise dust from the dry surface.*  *Contained tailings in classified as Potentially Acid Forming (PAF).* | | | | | | | | | |
| **Above the Safety Threshold** | | *No* | | | | | | | | | |
| **Owner** | | *Hera Mine Pty Ltd* | | | | | | | | | |
| **Main Emergency Contact** | | *Todd Whitla - Processing Manager 0437934535* | | | | | | | | | |
| **After Hours Contact** | | *Angus Wyllie – General Manager 0447654576* | | | | | | | | | |
| **Location of Dam** | | *8km south of Nymagee NSW, off Burthong Road* | | | | | | | | | |
| **River/Stream/Catchment** | | *Nil* | | | | | | | | | |
| **Towns Impacted** | | *Nil* | | | | | | | | | |
| **LGA’s Impacted** | | *Nymagee* | | | | | | | | | |
| **Alert Levels – Key Response Levels** | | | | | | | | | | | |
| **White Alert**  The lowest level of dam safety emergency and is assigned for unusual incidents which have the potential to threaten the dam. | | *Normal operation. water being held in tailings dam below spillway level.*  *As per the OMM TARP, monitoring of water levels and forecast rainfall is required.* | | | | | | | | | |
| **Amber Alert**  The second highest level of dam safety emergency assigned when dam integrity is compromised. | | *An emergency trigger for a likely failure event is reached.*  *Refer to dam safety Emergency Plan for further guidance of action plan.* | | | | | | | | | |
| **Red Alert**  The highest level of dam safety emergency assigned when the dam is failing, or failure is imminent. | | *Failure is occurring or has occurred.*  Refer emergency notification and action response in the DSEP. | | | | | | | | | |
| **Downstream Communities and Consequences** | | | | | | | | | | | |
| **Downstream Communities** | | *nil* | | | | | | | | | |
| **‘Sunny Day’ Failure (SDF)**  *[Floods caused by the unexpected failure of the dam that may happen at any time and may not involve a rainfall event - including Earthquakes]* | | *Post flood assessment with pond on tailings surface from a 1 in 10,000 AEP, 24 hour duration rain event.* | | | | | | | | | |
| **Consequence Summary** | | Consequence Category | Population at Risk (PAR) | | | Potential Loss of Life (PLL) | | | Number of Dwellings | | Flood Wave Depth and Travel Time |
| *Significant* | *<1* | | | *<1* | | | *0* | | *< 0.3m wave, >1 hr time* |
| **‘Probable Maximum Flood’ Failure (PMF)**  *[The extreme flood for the catchment, typically presented as with and without dam failure]* | | *Consecutive days of 1 in 10,000 AEP, 24 hour duration rain event.* | | | | | | | | | |
| **Consequence Summary** | | Consequence Category | Population at Risk (PAR) | | | Potential Loss of Life (PLL) | | | Number of Dwellings | | Flood Wave Depth and Travel Time |
| *Significant* | *<1* | | | *<1* | | | *0* | | *> 0.3m wave, >1 hr time* |
| **Dam Characteristics and Hydrological Information** | | | | | | | | | | | |
| Type/Description | | Central discharge heaped tailings with embankment perimeter wall | | **Outlet/Spillway** | | | | Spillway from tailings dam into decant dam, spillway from decant dam to receiving environment | | | |
| Maximum Embankment Height | | 8m | | Inlet Works | | | | N/A | | | |
| Maximum Tailings Thickness | | 19m | |  | | | |  | | | |
| Crest Level | | 5m | | Outlet Works | | | | N’/A | | | |
| Crest Width | | 6m | | Spillway Type | | | | rock | | | |
| Crest Length | | 1150m | | Spillway Gated | | | | *No* | | | |
| Catchment Area | | 41 ha | | Spillway Level | | | | 1.4m below crest | | | |
| Full Supply Level (FSL) | | 2.3m | | Spillway Width | | | | 8m | | | |
| Storage Capacity at FSL | | N/A | | Spillway Length | | | | 20m | | | |
| Imminent Failure Level | | *>3m* | | Spillway Design Capacity | | | | 1:10000 | | | |
| Freeboard allowance/Maximum | |  | | Streambed Level | | | | N/A | | | |
| **Warning and Monitoring Systems** | | | | | | | | | | | |
| **Warning Systems** | | *Visual and manual only conducted daily and more frequently if potential rainfall event* | | | | | | | | | |
| **Monitoring Systems** | | *Visual and manual only conducted daily and more frequently if potential rainfall event* | | | | | | | | | |
| **Notification Protocols** | | Refer to DSEP | | | | | | | | | |
| **Bureau of Meteorology Warnings and Stream Gauges** | | **Bureau Warning Gauges**  *Cobar Weather Station (MO 048027)* | | | | | **Stream Gauges**  *N/A* | | | | |
| **NSW SES Local Flood Emergency Sub Plan Name** | | Cobar Shire – Local Flood Emergency Sub Plan | | | | | | | | | |
| **Additional Information** | | | | | | | | | | | |
| *[Description of any other information that has not been covered, or may be relevant]* | | | | | | | | | | | |
| **References** | | | | | | | | | | | |
| *[List of references and version number]* | | | | | | | | | | | |
| **Prepared By** | *Todd Whitla* | | | | **Approved By** | | | | | *Todd Whitla* | |
| **Position** | *Aurelia Metals – Process Manager* | | | | **Position** | | | | | *Aurelia Metals – Process Manager* | |
| **Version Control** | *Ver 1. 25/05/2025* | | | | | | | | | | |