Exmouth Quarries and Concrete

ML08/06 SL3H/034

Structural Plans

Stormwater and Groundwater Mitigation Control

Figure 1 Remediation of Previous Workings

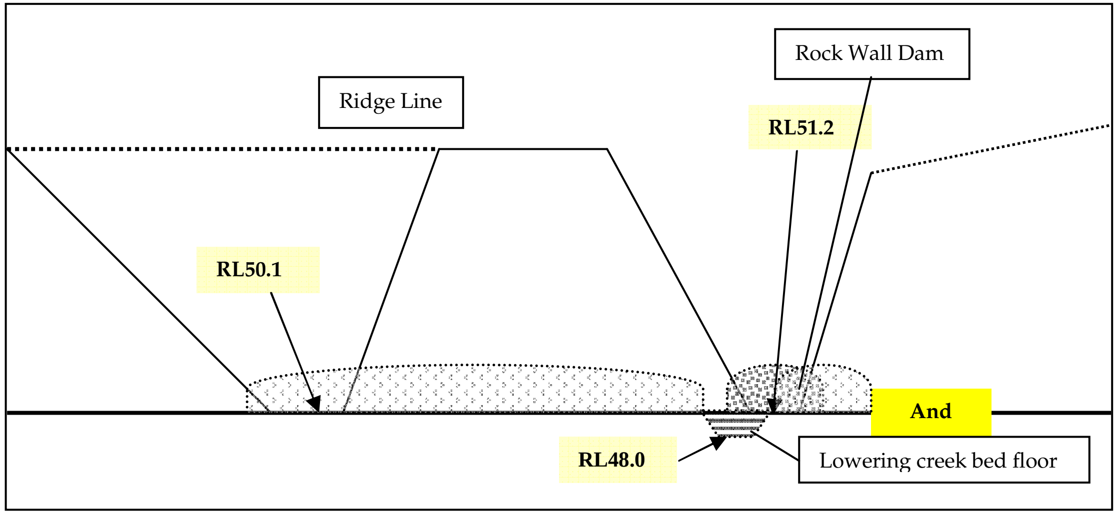


Figure 2 Finalisation of Remediation, Operational Area

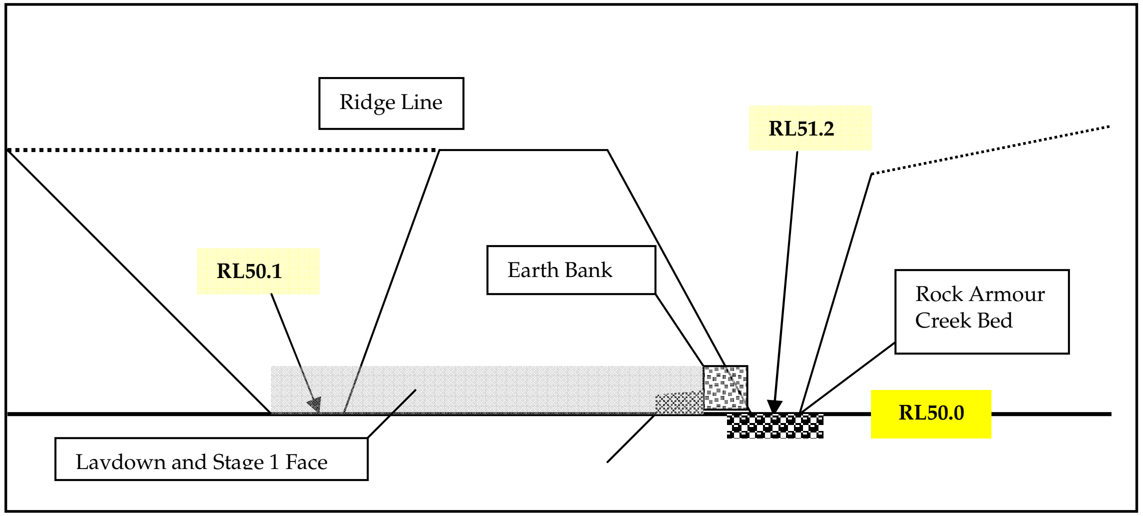


Figure 3 Site Layout and Drainage Controls

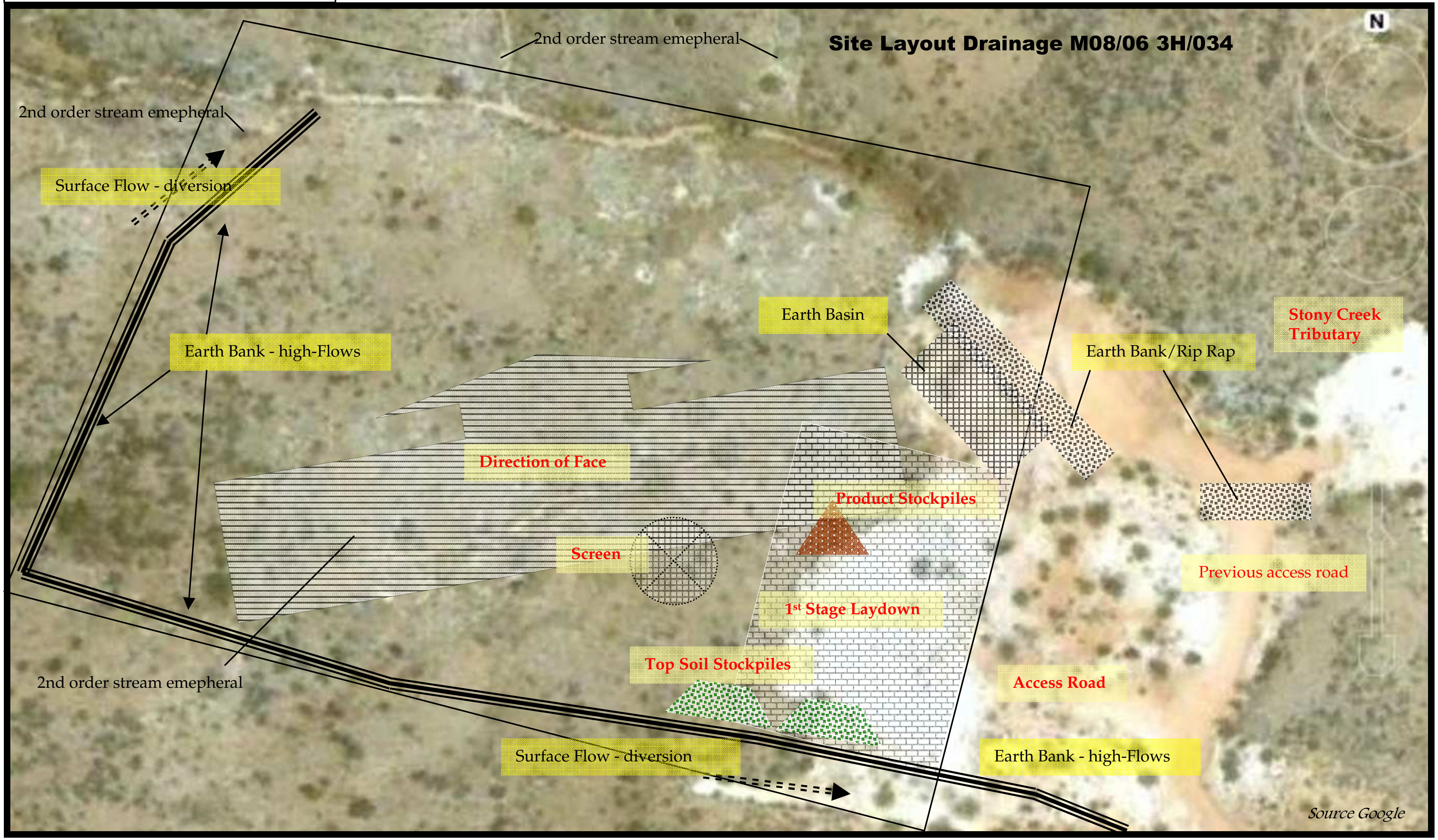
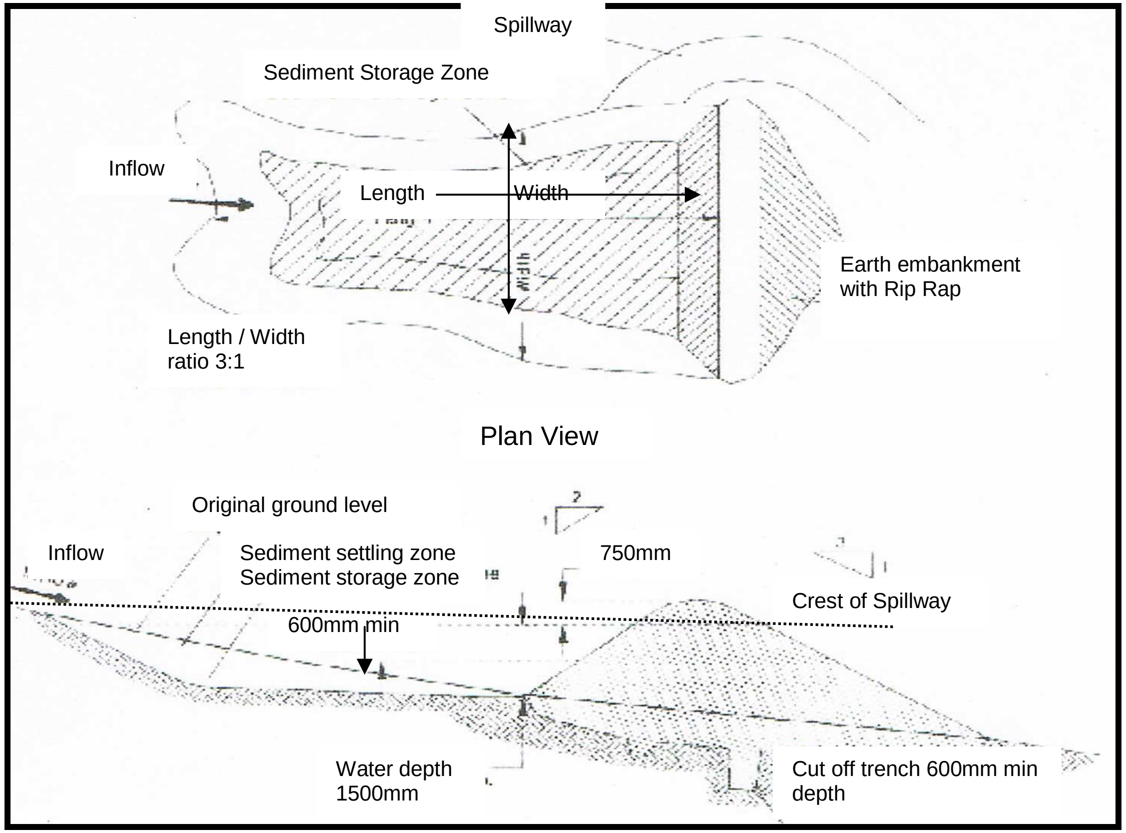


Figure 4 Plans Earth Basin

EARTH BASIN - WET

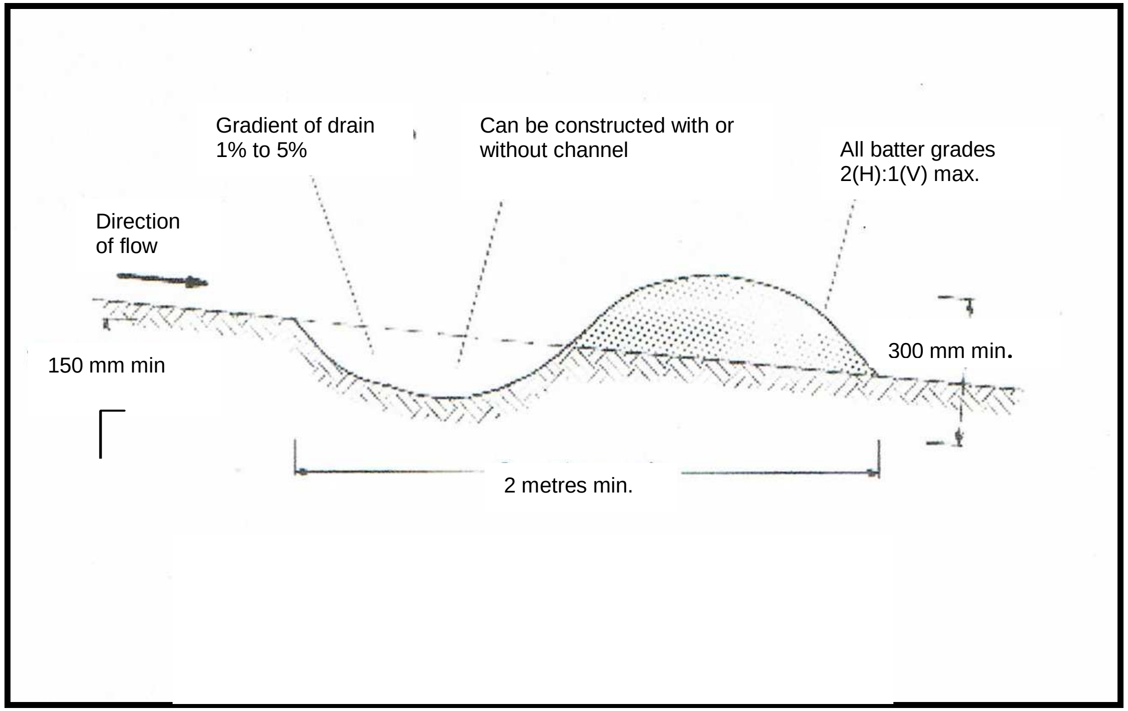


Construction Notes

1. Construct a cut off trench 500mm deep and 1 200mm wide along the centreline of the embankment extending to a point on the gully wall level with the riser crest.
2. Maintain the trench line free of water and recompact the material with rock armour.
3. Select fill clear of roots, large stone or foreign material.
4. Prepare the site under the embankment by ripping at least 100mm deep to help bond compacted fill to existing substrate.
5. Spread fill 100mm to 150mm layers and compact at optimum moisture content.
6. Construct emergency spillway.
7. Rip rap structure to high flow level.
8. Place full of sediment marker to show when less than design capacity occurs and sediment removal is required.

Figure 5 Plans Earth Bank

EARTH BANK (LOW FLOW)



Construction Notes

1. **Construct with gradient of 1 percent to 5 percent.**
2. **Avoid removing vegetation if possible.**
3. **Drains to be of circular, parabolic o or trapezoid not V-shaped.**
4. **Earth bank to be adequately compacted in order to prevent failure.**
5. **Stabilsiation of the earth bank to be completed within 10 days of construction.**
6. **All outlets from disturbed areas are to feed into the Earth (sediment) Basin.**
7. **The discharge runoff collected from the undisturbed areas feeds into 2nd order ephemeral stream (Tributary of Stony Creek).**
8. **Earth bank to be free of projection or other irregularities that will impede normal flow.**