



Client:



Services: Engineering Design  
September 2022

## **Kumba Iron Ore Mine – Northern Cape, South Africa**

**Engineering Support & Draughting**

### **Scope of work**

Nurizon provided engineering support, specifically in terms of:

- Site investigation
- Structural design of high wall and concrete retaining wall and various stormwater infrastructure
- Stormwater management details

### **Project Detail:**

- Provided solution to mitigate and remove water accumulating at tipping lanes.
- Provided solution to mitigated large volumes of water accumulated at tunnel entrance.
- Restored slope stability of highwall and redesigned concrete retaining wall.
- Provided solution to manage stormwater from road resulting in flooding of secondary area.
- Provided solution to prevented ground erosion.
- New retaining wall to prevent soil from being washed underneath conveyor.
- Designed new surface bed under conveyors to ease cleaning operation.
- Provided solution to manage stormwater and water from operations.
- Resolved slope stability of highwall.
- Provided solution to eliminate water ponding below transfer tower.
- Restored slope stability at gabion embankment and designed solution to prevent soil erosion in future.
- Restored slope stability at earth embankment and designed solution to prevent soil erosion in future.