

DETAILS OF TAILINGS STORAGE FACILITY

Tailings Storage Facility (TSF) Name

Baobab

Operation Limpopo

Mining Operation Mogalakwena Platinum (Potgietersrus) Mining Operation

(MPMO) owned by Anglo-American Platinum (AAP)

Operational Status Active

Operating Segment RSA - PGM

Location 50 km south of the city of Polokwane, and about 60 km

southeast of Mokopane in Limpopo Province - please refer

to Figure 1

Latitude, Longitude (decimals) -24,3698, 29,4712

Ore Source Underground

Type of Storage Facility Impoundment (upstream development)

Deposition Methodology Spigot with a possibility of converting to a hybrid paddock

system in 2023

Year of Commissioning 2002

Consequence Classification (GISTM, 2020) Very High

Operating Contractor Minopex

Engineer of Record (EoR) SLR Consulting (Pty) Ltd

Current Maximum Height (m) 18

Final Maximum Height (m) 40

Maximum Storage Capacity (tons/month) 95 000

Total Volume Already Deposited (Mm³) 7.9

Life of TSF (year) 2029 @1.6m/yr















TECHNICAL ASPECTS:

Design Criteria

Stability Assessment and Mitigation Measures

Dam Breach Assessment

Area of Inundation

Summary of Human Exposure

DOCUMENTATION:

Site Specific OMS Manual

Design Basis Report (DBR)

Environmental Management System

GISTM and best practice guidelines including Australian National Committee on Large Dams (ANCOLD) (Guidelines on Tailings Dams, July 2019). Site specific design criteria were specified by the EoR. Details are included in the Design Basis Report (DBR).

A detailed stability assessment based on piezocone probing was conducted in 2022. (SLR Project No: 720.19129.00012, February 2022)

All the FoS are above the recommended imits and thus no mitigation measures were required.

Assessment completed in 2022 (SLR Project No: 710.19129.00010, October 2021)

Has been identified by EoRs – please refer to Figure 2 to 4

Consequence classification has been based on Population at Risk (PAR). Communities have been identified and are being engaged through various means

Version 2022 available Mandatory Code of Practice (MCOP) Document No: MCOP-028 is in place (dated December 2022)

Version 2022 available (SLR Project No: 720.19129.00031 Rev 1, February 2023)

The Environmental Management System is ISO accredited (ISO 14001:2015)

The initial Environmental Management Programme (EMPr) is dated 2010.















Surveillance:

Surveillance Frequency

Daily by the Operator and monthly reports of critical controls submitted to and reviewed by the EoR

Surveillance Technology/System K2Fly Decipher

Deformation Monitoring Interferometric Synthetic Aperture Radar (InSAR)

Phreatic Surface Levels & Pore Pressure Standpipe piezometers

Measurements AquaSense Retrofit piezometers (IoT device)

RISK MANAGEMENT / EMERGENCY PREPAREDNESS:

Risk AssessmentAnnual Risk Assessment (Bowtie) completed with no untoward risk identified

Risk Management Site specific OMS Manual in place

Site specific Trigger Action Response Plans (TARPs) in place

Critical controls established and implemented

Site Specific Emergency Preparedness & Response Plans (EPRP)

Version 2023 available

Annual emergency mock drill for a catastrophic TSF failure – undertaken on 20 June 2023 with SSW employees and contractors.

Environmental emergency preparedness is managed on site according to ISO14001: 2015.

CLOSURE & POST CLOSURE

Closure Planning In place - report prepared by Golder Associates (Golder Reference: 20141966-340303-10, March 2021)

Closure Costing

Adequate financial capacity in place
Financials prepared by Golder Associates

(Golder Reference: 21467928-349392-3, December 2021)

Asset Insurance Cover In place – July 2023 to June 2024















Independent Reviews:

Independent Tailings Review Board (ITRB)

Future ITRB Review

Performance Reviews

Dam Safety Review (DSR)

29 June 2023 with no material concerns identified

2026

Annual and quarterly reports and inspections completed

by EoR

(SLR Project No: 720.19129.00031 Rev 1, March 2023)

Carried out by an independent third party in 2021. All recommendations at the time have been addressed in

the last year.

(SRK Project Number: 502225, March 2021)

Next review scheduled for 2026















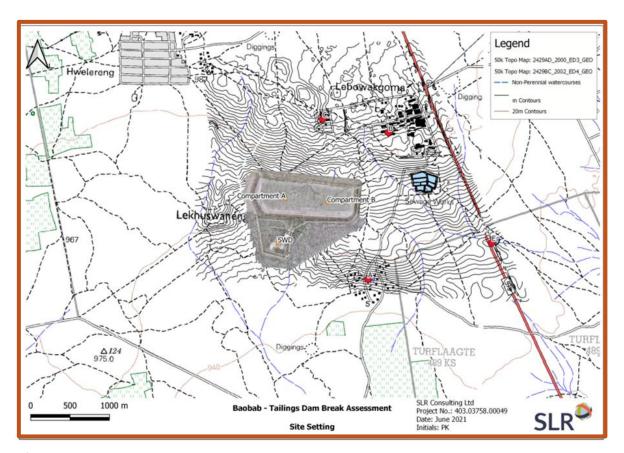


Figure 1: Layout of Baobab TSF













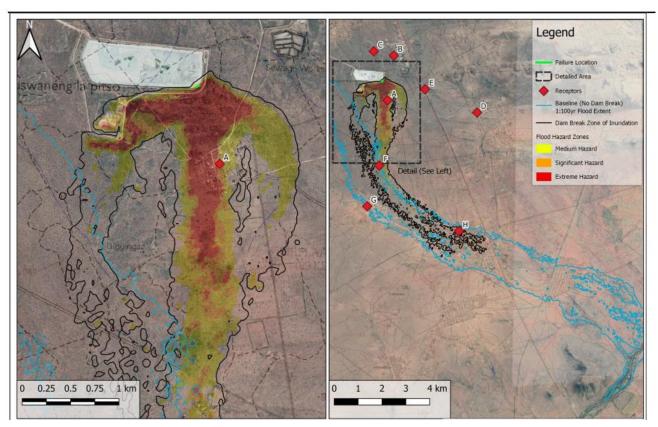


Figure 2: East Failure Area of Inundation

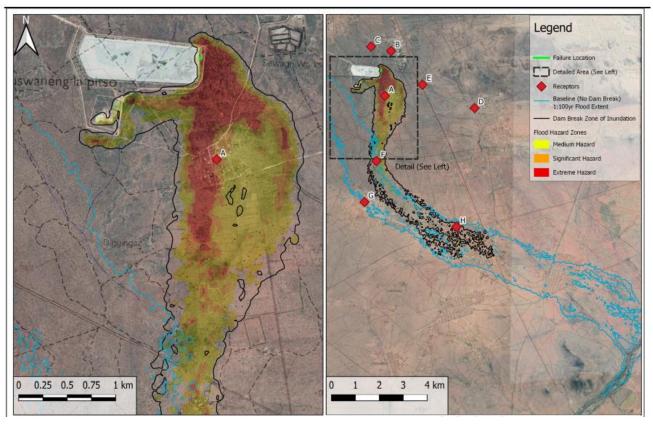


Figure 3: North East Failure Area of Inundation















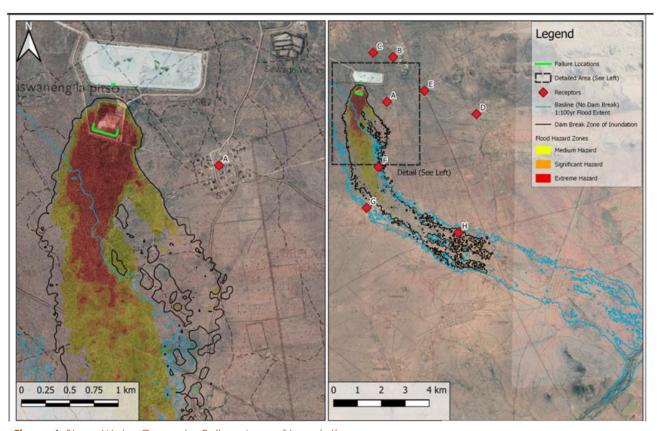


Figure 4: Storm Water Cascade Failure Area of Inundation











