

DETAILS OF TAILINGS STORAGE FACILITY

Tailings Storage Facility (TSF) Name

Eastern Platinum Limited Tailings Dam 2 (EPL TD2)

Operation Marikana

Operational Status Active

Operating Segment RSA - PGM

Location Tribal land Mogales (Turffontein 462JQ) in the district of

Marikana in the North West Province - please refer to

Figure 1

Latitude, Longitude (decimals) -25.6872, 27.5957

Ore Source Underground

Type of Storage Facility Impoundment (upstream development)

Deposition Methodology Spigot

Year of Commissioning 2002

Consequence Classification (GISTM, 2020) Extreme

Operating Contractor Fraser Alexander (Pty) Ltd (FAT)

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

Current Maximum Height (m) 36

Final Maximum Height (m) 65

Maximum Storage Capacity (tons/month) 310 000

Total Volume Already Deposited (Mm³) 17.7

Life of TSF (year) 2027 @2.5m/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.: 720.19129.00051 Rev 0, February 2023). The assessment indicated unacceptable FoS requiring

Construction of a waste rock buttress and internal drainage systems was completed in September 2021.

Assessment completed in 2020 (SRK Report Number: 558195 Rev 0, September 2020)

Has been identified by EoRs – please refer to Figure 2

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

Version 2021 available

mitigation measures.

Mandatory Code of Practice (MCOP) Document No: SS-ZA-PGM's-MCOP-CON-TLS-0101 is in place (dated September 2022)

Version 2022 available

(SLR Project No: 720.19129.00034 Rev 1, February 2023)

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

The initial Environmental Management Programme (EMPr) is dated 2012.















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 Measurements

Standpipe piezometers
AquaSense Retrofit piezometers (IoT device)
Vibrating Wire Piezometers (VWP's)

RISK MANAGEMENT / EMERGENCY PREPAREDNESS:

Risk Assessment

Annual 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 Operating contractor Technical and Operational Risk Assessment System (TORAS)

Site Specific Emergency Preparedness & Response Plans (EPRP)

Version 2023 available

Annual emergency mock drill for a catastrophic TSF failure – undertaken on 29 June 2023 with SSW employees, contractors, Madibeng & Rustenburg Disaster Management Teams, first responders and second responders.

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: 20141966-340280-9, June 2021)

Closure Costing Adequate financial capacity in place

Financials prepared by Golder Associates

(Golder Reference: 21467970-349390-1, December 2021)

Asset Insurance Cover In place – July 2023 to June 2024

Independent Reviews:

Independent Tailings Review Board (ITRB) 20 October 2021 with no material concerns identified

Future ITRB Review 2024

Performance Reviews Annual and quarterly reports and inspections completed

by EoR

(SLR Project No: 720.19129.00034 Rev 1, October 2022)

Dam Safety Review (DSR) Carried out by an independent third party in 2019/2020. All

recommendations at the time have been addressed in

the last 2 years.

(KP Reference: RI301-00877/2 Rev B, 25 August 2020)

Next review scheduled for 2024













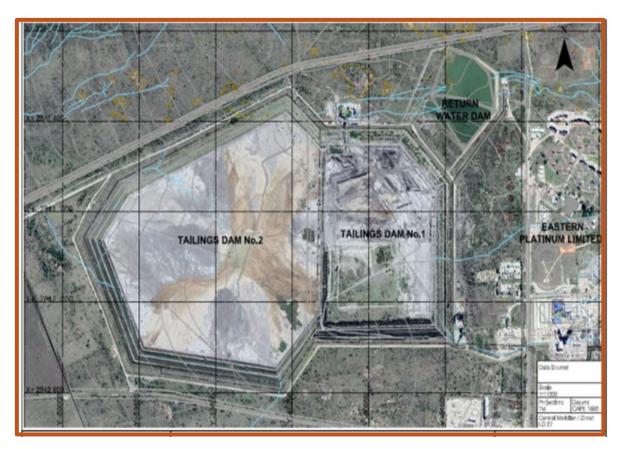


Figure 1: Layout of Eastern Platinum Limited Complex

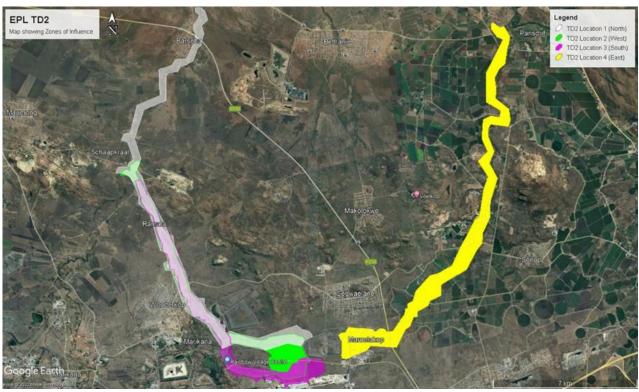


Figure 2: Consolidated view of the rainy-day failure scenario inundation boundaries











