

DETAILS OF TAILINGS STORAGE FACILITY

Tailings Storage Facility (TSF) Name

Western Platinum Tailings Dam Complex - Tailings Dam 1

(WPL TD1)

Operation Marikana

Operational Status Dormant since 1992

Operating Segment RSA - PGM

Location 5 km east of the town of Marikana in the North-West

province - please refer to Figure 1

Latitude, Longitude (decimals) -25.7085, 27.5093

Ore Source Underground

Type of Storage Facility Impoundment (upstream development)

Deposition Methodology Spigot

Year of Commissioning Pre 1980

Consequence Classification (GISTM, 2020) High

Operating Contractor Fraser Alexander (Pty) Ltd (FAT)

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

Current Maximum Height (m) 23

Final Maximum Height (m) 23

Total Volume Already Deposited (Mm³) 3.8

Life of TSF (year) N/A















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 laboratory test work was conducted in 2024.

(SLR Project No: 20.070536.00002 Rev 1, 30 May 2025)

All the FoS are above the recommended limits and thus no remedial measures were required.

Assessment completed in 2023 (SLR Ref No: 723.000006.00001Rev 1, July 2023)

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). An appointed external specialist has conducted vulnerability assessments for communities located within the Area of Inundation

Version 2023 available

Mandatory Code of Practice (MCOP) Reference No: SS-ZA-PGM's-MCOP-ENG-CON-0002 is in place (dated June 2024)

Version 2023 available

(SLR Project No: 720.19129.00035 Rev 1, July 2023)

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

The initial Environmental Management Programme (EMPr) is dated 2004. Numerous addendums have been submitted with the latest being in 2013.















Surveillance:

Surveillance Frequency

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

Surveillance Technology/System

Deformation Monitoring

Interferometric Synthetic Aperture Radar (InSAR)

Phreatic Surface Levels & Pore Pressure Measurements

RISK MANAGEMENT /

Standpipe piezometers

Quartex

EMERGENCY PREPAREDNESS:

Risk Assessment

Annual Risk Assessment (Failure Mode Effect Analysis) completed with no untoward risk identified

Risk Management

Site specific OMS Manual in place Site specific Trigger Action Response Plans (TARPs) in place Critical and operational controls established and

Operating contractor Technical and Operational Risk Assessment System (TORAS)

Site Specific Emergency Preparedness & Response Plans (EPRP)

Version 2024 available

implemented

Annual emergency mock drill for a catastrophic TSF failure - undertaken on 28 September 2024 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: 20141966-340280-9, 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 2024 to June 2025 (renewal process has commenced))



Independent Reviews:

Independent Tailings Review Board (ITRB)

27 June 2023 with no material concerns identified

Future ITRB Review

June 2026

Performance Reviews

Annual and quarterly reports with inspections completed

(SLR Project No: 20.070536.00002 Rev 1, 30 May 2025)

Dam Safety Review (DSR)

Carried out by an independent third party in 2020. All recommendations at the time have been addressed in the last 2 years.

(KP Reference: RI301-00877/02 Rev B, 26 August 2020)

Next review is currently underway















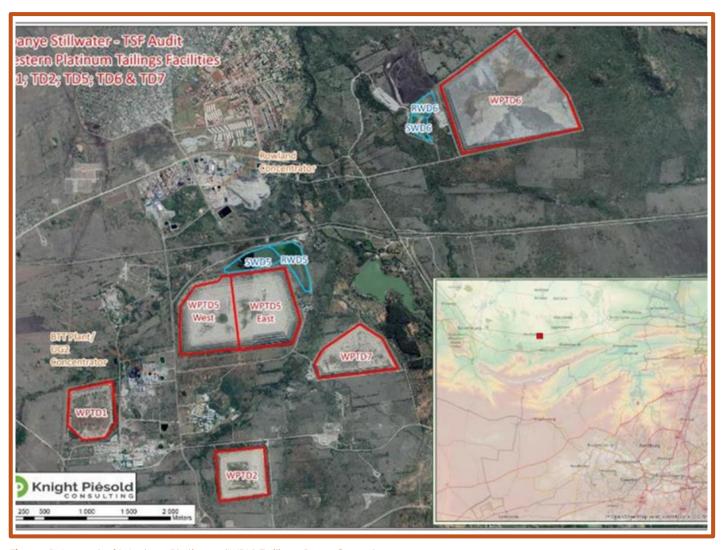


Figure 1: Layout of Western Platinum (WPL) Tailings Dam Complex















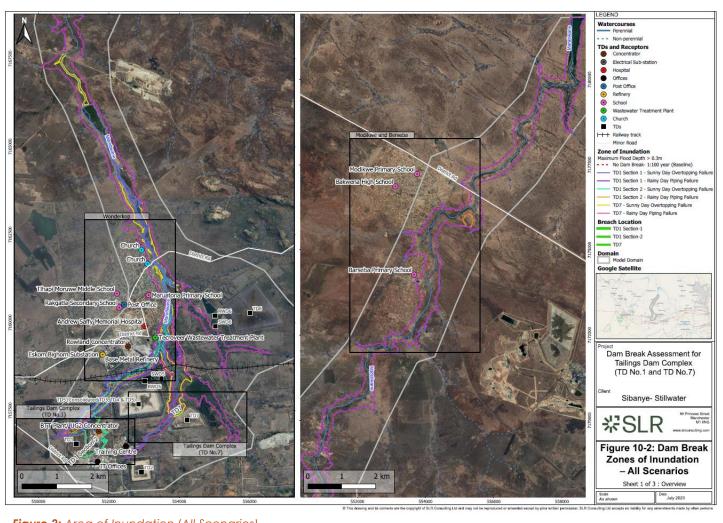


Figure 2: Area of Inundation (All Scenarios)











