

DETAILS OF TAILINGS STORAGE FACILITY

Tailings Storage Facility (TSF) Name Cooke 1 TSF

Operation Cooke Mine

Operational Status Dormant since January 2015

Operating Segment RSA - Gold

Location 6.5 km south-east of the town of Randfontein on the West

Rand – please refer to Figure 1

Latitude, Longitude (decimals) -26,2434528, 27.749525

Ore Source Underground

Type of Storage Facility Impoundment (upstream development)

Deposition Methodology Day-Wall Paddock

Year of Commissioning 1977

Consequence Classification (GISTM, 2020) High

Operating Contractor Stefanutti Stocks Inland (SSI)

Engineer of Record (EoR)Knight Piesold (Pty) Ltd (KP)

Current Maximum Height (m) 66

Final Maximum Height (m) 66

Total Volume Already Deposited (Mm³) 65.9

Life of TSF (year) N/A















TECHNICAL ASPECTS:

Design Criteria

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).

Stability Assessment and Mitigation Measures A detailed stability assessment based on test pits and laboratory test work was conducted in 2023. (KP Reference: PR301-00726/48-A Rev 0, July 2023)

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

Further testing of the facility by means of piezocone probing will be considered in order to clearly validate the tailings properties and layering assumptions.

Dam Breach Assessment

Assessment completed in 2023

(KP Reference : PR301-00726/48-A-PR23-00175 Rev 0, July

2023)

Area of Inundation

Has been identified by EoRs – please refer to Figure 2

Summary of Human Exposure

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)

DOCUMENTATION:

Site Specific OMS Manual

Version 2023 available

Mandatory Code of Practice (MCOP) Document No: SER.EE 2.4B COP is in place (dated November 2021)

Design Basis Report (DBR)

Version 2023 available

(KP Reference: RI301-00726/48 Rev 0, 4 August 2023)

Environmental Management System

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

The initial Environmental Management Programme (EMPr) is dated 2013.















Surveillance:

Surveillance Frequency

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

Surveillance Technology/System K2Fly Decipher

Deformation MonitoringInterferometric Synthetic Aperture Radar (InSAR)

Phreatic Surface Levels & Pore Pressure Standpipe piezometers

Measurements

RISK MANAGEMENT /
EMERGENCY PREPAREDNESS:

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

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Risk Management Site specific OMS Manual

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 29 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: 20355171-341341-4, April 2021)

Closure Costing

Adequate financial capacity in place

Financials prepared by Golder Associates

(Golder Reference: 20447293-349378-1, December 2021)

Asset Insurance Cover In place – July 2023 to June 2024















Independent Reviews:

Independent Tailings Review Board (ITRB)

3 July 2023 with no material concerns identified

Future ITRB Review

2026

Performance Reviews

Annual and quarterly reports with inspections completed by EoR

(KP Reference: RI301-00726/09 Rev 0, 3 November 2022)

Dam Safety Review (DSR)

Carried out by an independent third party in 2019/2020

with no material findings

(KP Reference: 301-00840/02-008 Rev 1, February 2020)

Next review scheduled for 2026















Figure 1: Layout plan of Cooke TSF

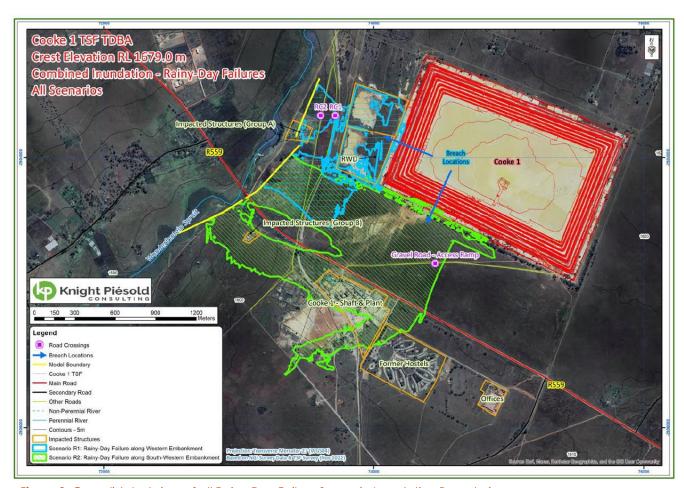


Figure 2: Consolidated view of all Rainy-Day Failure Scenario Inundation Boundaries











