

JUNE 2025

MILLSITE COMPLEX TAILINGS STORAGE FACILITY (TSF)

DETAILS OF TAILINGS STORAGE FACILITY

Tailings Storage Facility (TSF) Name	Millsite Complex (38, 39, 40, 41, valley dam)
Operation	Cooke Mine
Operational Status	Dormant – deposition on Dam 39 stopped in 1992 (currently being remined), and on Valley Dam (the infill dam between Dam 39 and Dams 40 and 41) in 2004
Operating Segment	RSA - Gold
Location	5 km north of Randfontein in the West Rand – please refer to Figure 1
Latitude, Longitude (decimals)	-26,1317444, 27.7018139
Ore Source	Underground
Type of Storage Facility	Impoundment (upstream development)
Deposition Methodology	Day-Wall Paddock
Year of Commissioning	1900
Consequence Classification (GISTM, 2020)	Significant
Operating Contractor	Stefanutti Stocks Inland (SSI)
Engineer of Record (EoR)	Knight Piesold (Pty) Ltd (KP)
Current Maximum Height (m)	50
Final Maximum Height (m)	50
Total Volume Already Deposited (Mm³)	94.3
Life of TSF (year)	N/A



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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: RI301-00726/46 Rev 0, 27 March 2024)

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

Dam Breach Assessment

Assessment completed in 2023
(KP Reference: PR301-00726/51-A 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 2024 available

Mandatory Code of Practice (MCOP) Document No: SAND301-00726/51 Rev 0 is in place (dated September 2023)

Design Basis Report (DBR)

Version 2023 available
(KP Reference: RI301-00726/51 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 2010.



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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

Quartex

Deformation Monitoring

Interferometric Synthetic Aperture Radar (InSAR)

Phreatic Surface Levels & Pore Pressure Measurements

Standpipe piezometers

RISK MANAGEMENT / EMERGENCY PREPAREDNESS:

Risk Assessment

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

Risk Management

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

Site Specific Emergency Preparedness & Response Plans (EPRP)

Version 2023 available

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 2024 to June 2025 (renewal process has commenced)



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Independent Reviews:

Independent Tailings Review Board (ITRB)	3 July 2023 with no material concerns identified
Future ITRB Review	June 2026
Performance Reviews	Annual and quarterly reports with inspections completed by EoR (KP Reference: PR301-00726/67 Rev 0, 17 March 2025)
Dam Safety Review (DSR)	Carried out by an independent third party in 2019/2020 with no material findings (KP Reference: 301-00840/02-007 Rev 1, February 2020) Next review is currently underway



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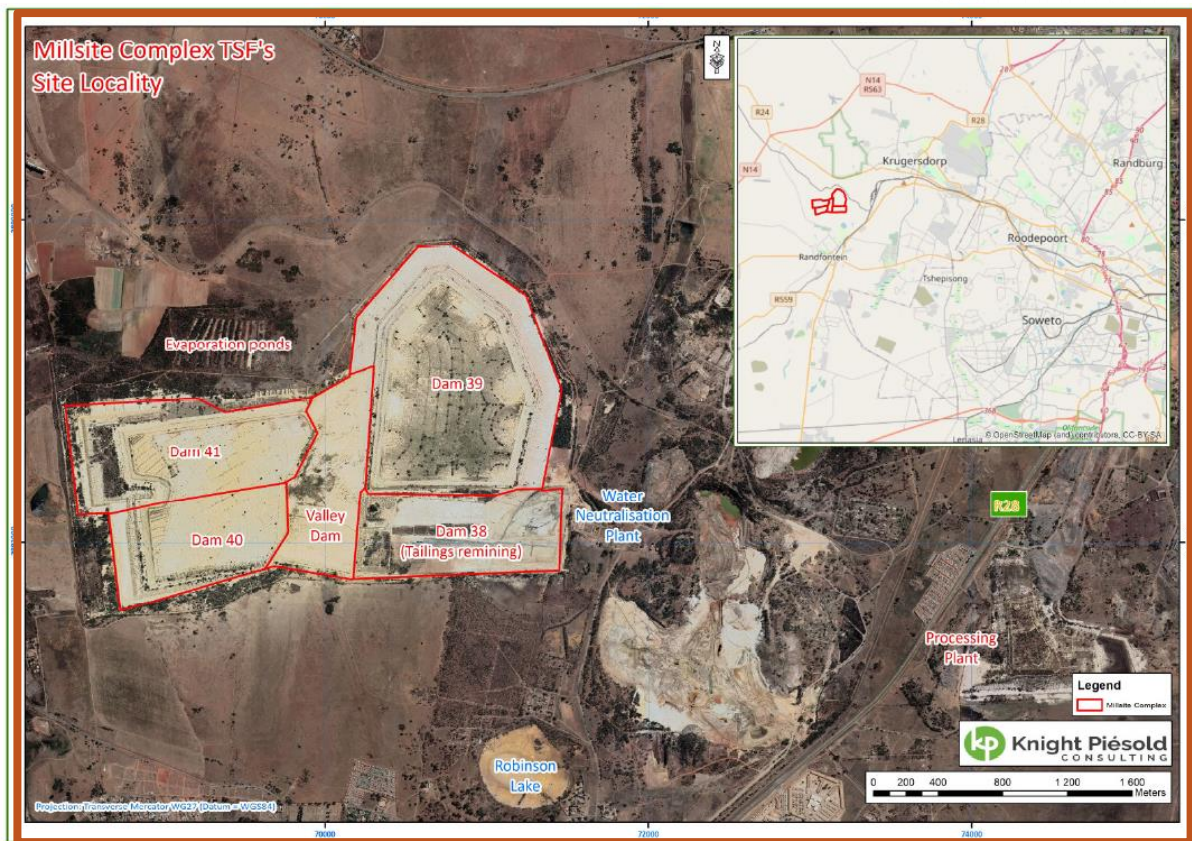


Figure 1: Layout of Millsite Complex

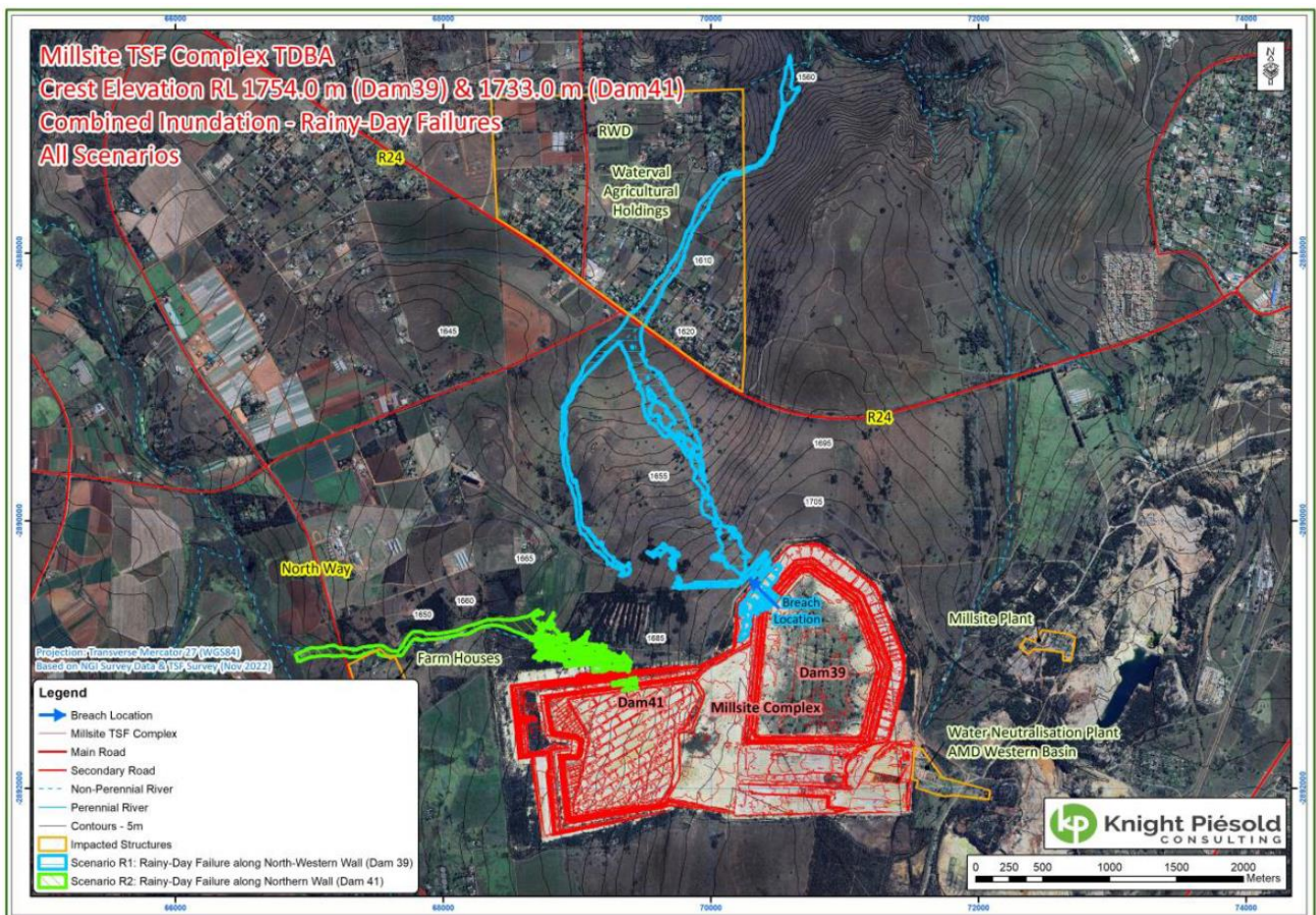


Figure 2: Consolidated view of all Rainy-Day Failure Scenario Inundation Boundaries



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