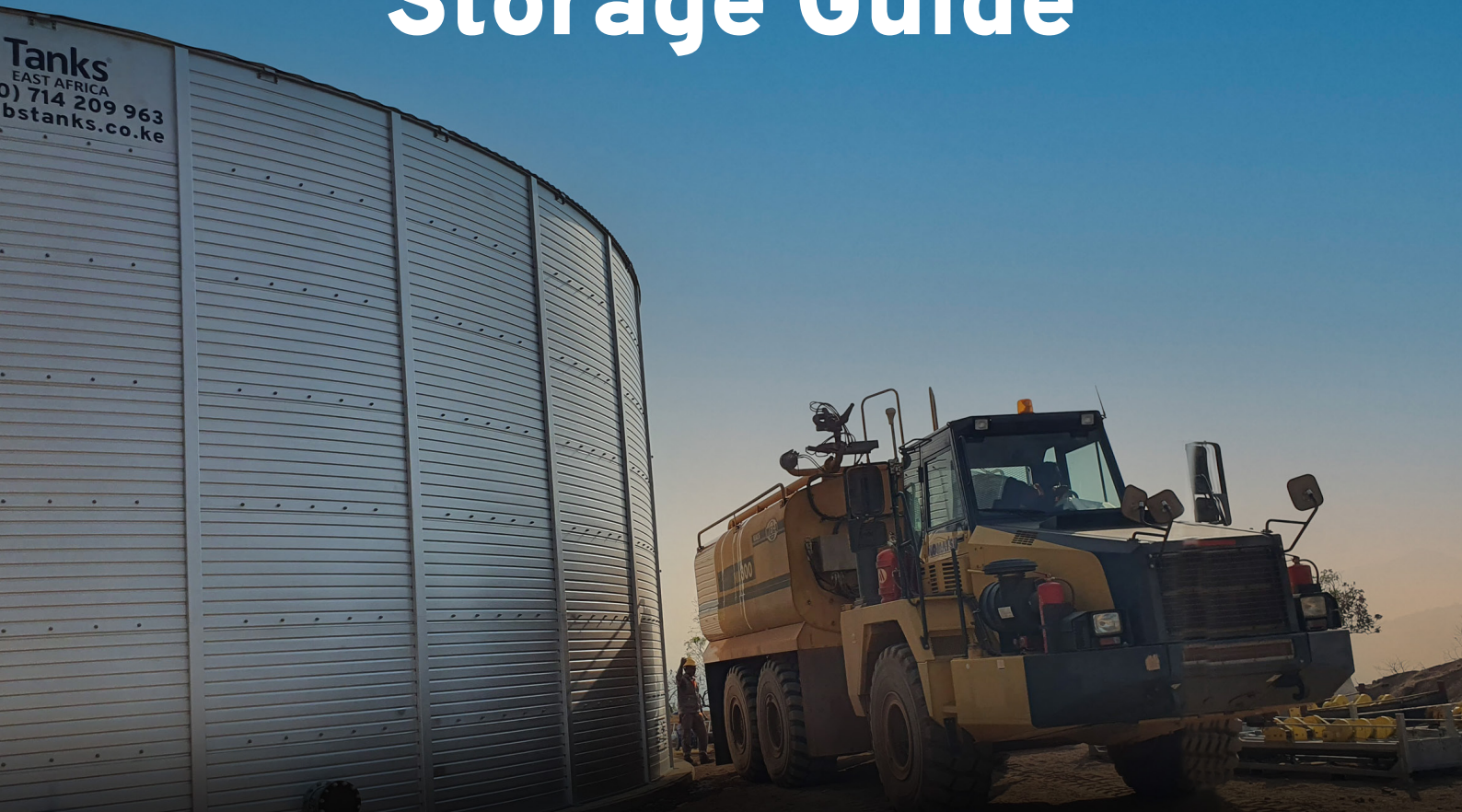


# SBS Tanks<sup>®</sup>

## Mining Water Storage Guide



Process Water Storage



Modular. Scalable. Reliable



Built for mining environments

**Engineered for harsh mining environments. Built for uptime**

This guide outlines how SBS Tanks supports mining operations with engineered modular steel water storage tanks designed for harsh environments, remote sites and long-term operational reliability.

# Why Water Storage Matters on Mines

*On a mine, water failure is a production failure*







Water storage is not a background utility on a mine; it is production-critical infrastructure. Mining operations rely on secure, well-planned water storage to keep production, safety systems, and site services running. From mineral processing and dust suppression to potable water, fire protection, wastewater treatment, and water reuse, reliable water storage plays a direct role in operational continuity, environmental control, and mine-site resilience.

SBS Tanks provides engineered, modular steel water storage tanks designed for demanding mining environments, remote locations, fast deployment, and long-term operational reliability.

## When water storage fails, the impact can include:

- ▶ Reduced process plant availability
- ▶ Interrupted dust suppression
- ▶ Fire water readiness risk
- ▶ Potable water supply interruptions
- ▶ Increased reliance on temporary water carting
- ▶ Delays to commissioning or expansion projects

## Where Water Storage Supports the Mining Operation

Requirement	Mine-Site Importance	SBS Tank Application
 <b>Process Water</b>	Ensures continuous supply to maintain productivity.	Bulk storage for operational and process water systems. Seismic modifications avail.
 <b>Dust Suppression</b>	Improves air quality and safety while reducing environmental impact.	Reliable storage for dust suppression water supply.
 <b>Potable Water</b>	Supports health, wellbeing, compliance and operational facilities.	Potable water storage using suitable liner systems.
 <b>Fire Protection</b>	Enhances site safety and helps protect people, assets and infrastructure.	Dedicated fire water storage for mine infrastructure. ASIB and NFPA 22 compliant.
 <b>Water Reuse</b>	Reduces freshwater demand and lowers operating costs.	Storage for recycled or treated process water.
 <b>Wastewater / Effluent</b>	Enables responsible management of site water in line with regulatory requirements.	Storage for selected wastewater or effluent applications, subject to compatibility review.

# Why Mines Choose SBS Tanks

Mining operations require water storage systems that are practical to deploy, durable in harsh conditions and reliable over long term. SBS Tanks provides engineered modular steel water storage tanks that align with the realities of remote mine sites, operational pressure and project delivery demands.



## Modular by Design

Flat-packed components allow efficient transport and rapid on-site installation



## Remote-Site Ready

Designed for easier logistics to demanding and remote mining locations



## Built Tough

Heavy-duty steel panel construction and corrosion-resistant liner systems ensure long-term durability in harsh mining environments with a 60+ year service life.



## Safer Installation

Ground-up installation reduces reliance on heavy lifting and high-risk activities, supported by comprehensive SHEQ, QC, and safety file procedures.



## Scalable & Flexible

Systems can be sized around project needs and adapted as operations evolve based on life-of-mine requirements



## Low Maintenance

Designed for long-term, low maintenance lifecycle value with simple inspections. Backed by a 12 month workmanship guarantee and a 10 year no-leak warranty.



Harsh-site performance



Mine infrastructure integration



Long-term reliability

# Mining Project Case Studies

Successful case studies of how modular water storage supports mine infrastructure and plant operations



## Nokeng Fluorspar, Rust de Winter, RSA Raw Water Treatment Plant



### Challenge

Reliable water storage was required to support production-critical plant operations and site infrastructure.



### SBS Solution

Supplied modular storage tanks for various stages of the mining cycle, from raw borehole water storage to filtered water, providing a combined gross capacity of 2ML



### Outcome

Secure on-site water storage supporting plant continuity and practical project delivery.



## Kangala Mine, RSA PCD Evaporation Dust Suppression



### Challenge

Eliminate excessive evaporation and reduce its reliance on municipal Rand Water.



### SBS Solution

3 modular 2ML storage tanks with a total capacity of 6ML, suited to site logistics, operational demands and future scalability.



### Outcome

With a high daily water demand on full production days, the tanks ensure uninterrupted processing and supply significant financial savings.

# Mining Project Case Studies

Remote-site performance, harsh-environment reliability and practical installation solutions.



## Kamoa-Kakula Copper Mine, DRC Fire Protection, Potable & Process Water Storage Tanks



### Challenge

A remote mining location required robust water storage suited to difficult site conditions and ongoing operational use.



### SBS Solution

Several modular steel tanks engineered for remote-site practicality and long-term performance, providing a gross storage capacity of 3.648ML.



### Outcome

Reliable water storage for process water, potable water, and fire water systems serving underground operations and admin buildings.



## Unki Mine, Zimbabwe Process Water (open top tank)



### Challenge

The project required a practical tank solution capable of supporting process or service water infrastructure.



### SBS Solution

A modular 2.9ML tank with internal liner system, delivered in a format suitable for efficient installation and commissioning.



### Outcome

A structured, scalable water storage tank aligned with site water infrastructure needs.

# Project Delivery & Technical Support

SBS Tanks supports mining projects with practical engineering-led delivery, from initial application assessment through to installation support and maintenance guidance.



1

## Assess The Application - Engineering Consultation

We understand your site conditions and water storage needs.

2

## Select The Capacity

Right-sized tanks for your current and future needs.

3

## Engineer The Tank

Engineered designs built for performance and compliance

4

## Manufacture The Tank

ISO-approved, quality-controlled and auditable manufacturing plant with fast lead times.

5

## Deliver to Site

Reliable logistics to remote and challenging locations

6

## Install & Commission

Installation and commissioning procedures for peace of mind, as stipulated in our approved HSE approved safety and site files

7

## Support & Maintain

Ongoing support and maintenance guidance for long-term reliability



## What SBS Tanks Can Support

- Application guidance
- Tank selection
- Engineering drawings and documentation
- QCP & Data books for materials
- Remote-site logistics planning
- Installation & commissioning
- Warranties & Maintenance guidance



Remote-site suitability



Structured Installation



Engineered Support



SBS Tanks helps mines secure water storage infrastructure that is fast to deploy, practical to maintain and engineered for harsh operating environments.



# SBS Tanks<sup>®</sup>

## Planning a Mining Water Storage Project?

Speak to SBS Tanks about your process water, dust suppression, fire protection, potable supply or water reuse requirements.

### Built for Mining Success



#### **Fast modular installation**

Rapid installation. Proven durability.



#### **Remote-site friendly logistics**

Engineered for remote-site accessibility



#### **Engineered for harsh environments**

In-house engineering and support you can trust



#### **Safer installation methodology**

Reduced risk through smarter ground-up installation



#### **Low maintenance lifecycle value**

Durable tanks with low upkeep for asset management



#### **ISO Certified manufacturing plant**

Global-standard manufacturing supported by consistent, auditable quality systems.

**Book a technical discussion with us:**

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**BUILD  
FOR  
BETTER**

SBS Tanks supplies engineered modular steel water storage tanks for mining operations across Africa and beyond.