



Mine Tailings Storage Facility Checklist

Design & Construction Review

Verification of design parameters, construction materials, and adherence to relevant codes and standards.

Design Slope Angle (Degrees)

Foundation Bearing Capacity (kPa)

Design Approval Date

Foundation Type

- ☐ Rock
- ☐ Soil
- ☐ Mixed

Approved Design Drawings

 Upload File

Seepage Control Method

- ☐ Clay Liner
- ☐ GCL
- ☐ Geomembrane

Design Engineer Name

Write something...

Dam Stability Monitoring

Assessment of pore pressure, seepage, instrumentation readings, and visual inspections for signs of instability.

Pore Pressure at Instrument A (kPa)

Enter a number...

Seepage Rate (m³/day)

Enter a number...

Groundwater Level (m ASL)

Enter a number...

Date of Last Survey

Enter date...

Time of Measurement

Dam Stability Assessment (Qualitative)

- ☐ Stable
- ☐ Potentially Unstable
- ☐ Unstable

Observed Anomalies or Concerns

Write something...

Attachment: Monitoring Data Spreadsheet

 Upload File

Water Management Systems

Evaluation of decant systems, water levels, discharge compliance, and erosion controls.

Decant Pond Water Level (m)

Enter a number...

Discharge Flow Rate (m³/s)

Enter a number...

Water Quality Parameters (Select all that apply)

- ☐ pH
- ☐ Turbidity
- ☐ Suspended Solids
- ☐ Electrical Conductivity
- ☐ Heavy Metals

Seepage Rate (m/day)

Enter a number...

Last Pond Cleaning Date

Enter date...

Comments on Water Management System Performance

Write something...

Tailings Characteristics

Review of tailings density, viscosity, particle size distribution, and geochemical properties.

Tailings Density (t/m³)

Enter a number...

Particle Size (d50, mm)

Enter a number...

Viscosity (cP)

Enter a number...

Tailings Type

- ☐ Sandy
- ☐ Slime
- ☐ Colloidal

Geochemical Analysis Summary

Write something...

Tailings Characterization Report

 Upload File

Date of Last Characterization

Enter date...

Instrumentation and Monitoring

Check of data logger functionality, sensor calibration, and data transmission reliability.

Piezometer Reading (Location 1)

Enter a number...

Slope Extensometer Reading

Enter a number...

Inclinometer Reading (Angle)

Enter a number...

Last Calibration Date (Piezometers)

Enter date...

Time of Data Download

Data Transmission Status

☐ Successful


☐ Partial

☐ Failed

Notes / Observations

Write something...

Screenshot of Data Logger Display

 Upload File

Emergency Response Preparedness

Validation of emergency procedures, communication protocols, and evacuation plans.

Last Emergency Drill Date

- ☐ Within Last 12 Months
- ☐ Over 12 Months Ago

Next Scheduled Drill Date

Enter date...

Typical Alert Activation Time

Number of Trained Emergency Responders

Enter a number...

Communication Methods Verified

- ☐ Radio
- ☐ Mobile Phone
- ☐ Public Address System
- ☐ Email
- ☐ Other

Evacuation Routes Checked

Write something...

Summary of Recent Drill Findings & Actions Taken

Write something...

Visual Inspection - Structural Integrity

Assessment of cracks, settlements, erosion, and other signs of distress in dam structures.

Presence of Visible Cracks (Dam Wall)

Write something...

Maximum Crack Width (inches)

Enter a number...

Description of Settlement Patterns (if any)

Write something...

Evidence of Erosion at Toe of Dam

- ☐ None
- ☐ Minor
- ☐ Moderate
- ☐ Severe

Photos of Dam Wall - Overview

 Upload File

Additional Observations/Comments

Write something...

Signs of Vegetation Stress

- ☐ None
- ☐ Slight
- ☐ Moderate
- ☐ Severe

Regulatory Compliance

Verification of permits, reporting requirements, and adherence to environmental regulations.

Last Permit Renewal Date

Enter date...

Permit Type (e.g., Water Discharge, Air Emissions)

- ☐ Water Discharge Permit
- ☐ Air Emissions Permit
- ☐ Mining Operation Permit
- ☐ Rehabilitation Permit

Permit Number

Enter a number...

Summary of Recent Regulatory Inspections (if applicable)

Write something...

Compliance Status (based on latest inspection/reporting)

- ☐ Compliant
- ☐ Minor Non-Compliance
- ☐ Major Non-Compliance

Next Reporting Deadline

Enter date...

Upload most recent compliance report

 Upload File