ChecklistGuro

Mining Waste Rock Management Checklist

Waste Rock Characterization

Assessment of waste rock geological properties, potential acid generation (PAG), and metal leaching potential.

Geological Description

Write something...

pH Value (Initial)

Enter a number...

Sulphide Mineral Content (%)

Enter a number...

PAG Potential Classification

- [ ] Non-PAG
- [ ] Potentially Acid Generating (PAG)
- [ ] Definitely Acid Generating (DAG)

Geochemical Analysis Reports

Upload File

Date of Sampling

Enter date...

Notes/Observations

Write something...

Waste Rock Storage Facility Design

Review of the storage facility's structural integrity, slope stability, and drainage systems.

Maximum Storage Capacity (m^3)

Enter a number...

Design Slope Angle (degrees)

Enter a number...

Foundation Type

- [ ] Bedrock
- [ ] Soil/Overburden
- [ ] Geosynthetic Reinforced

Drainage System Type

- [ ] Gravel Drain
- [ ] Geocomposite Drain
- [ ] Perforated Pipe

Spill Containment Volume (m³)

Enter a number...

Design Approval Date

Enter date...

Brief Description of Design Rationale

Write something...

Design Drawings/Calculations

Upload File

Waste Rock Placement & Handling

Verification of proper waste rock handling procedures, including segregation of potentially acid generating material.

Rockfall Height (meters)

Enter a number...

Rock Type (Segregated?)

- [ ] Yes
- [ ] No
- [ ] Not Applicable

Potential Acid Generation (PAG) Handling Procedures Followed?

- [ ] Segregation
- [ ] Covering
- [ ] Neutralization
- [ ] None

Date of Last Waste Rock Movement Inspection

Enter date...

Observations/Comments on Waste Rock Placement

Write something...

Is Equipment Positioned Safely?

- [ ] Yes
- [ ] No
- [ ] N/A

Distance to Nearest Water Body (meters)

Enter a number...

Surface Water Management

Evaluation of measures to prevent and control surface water runoff from the storage area.

Surface Water pH Level (Units: pH)

Enter a number...

Turbidity (NTU)

Enter a number...

Suspended Solids Concentration (mg/L)

Enter a number...

Visible Signs of Sediment Plume?

- [ ] Yes
- [ ] No
- [ ] Not Applicable

Observations of Surface Water Conditions

Write something...

Surface Water Photo Documentation

Upload File

Date of Water Quality Measurement

Enter date...

Time of Water Quality Measurement

Groundwater Monitoring

Assessment of groundwater quality and potential impact from the storage area.

Monitoring Date

Enter date...

Water Level (m ASL)

Enter a number...

pH Value

Enter a number...

Electrical Conductivity (µS/cm)

Enter a number...

Concentration of Sulfate (mg/L)

Enter a number...

Concentration of Heavy Metals (e.g., Arsenic, Copper) (mg/L)

Enter a number...

Visual Observations (e.g., color, odor, turbidity)

Write something...

Water Quality Status

- [ ] Acceptable
- [ ] Slightly Elevated
- [ ] Elevated
- [ ] Unacceptable

Supporting Documentation (e.g., lab reports)

Upload File

Erosion and Sediment Control

Verification of erosion and sediment control measures to minimize environmental impact.

Type of Erosion Control Measures Implemented

- [ ] Silt Fences
- [ ] Sediment Basins
- [ ] Vegetative Cover
- [ ] Check Dams
- [ ] Terracing
- [ ] Other (Specify in LONG_TEXT)

If 'Other' selected above, please specify erosion control method:

Write something...

Length of Silt Fence Installed (meters)

Enter a number...

Volume of Sediment Basin (cubic meters)

Enter a number...

Condition of Vegetation Cover

- [ ] Excellent
- [ ] Good
- [ ] Fair
- [ ] Poor

Photos of Erosion Control Measures (up to 2)

Upload File

Vegetation and Revegetation

Assessment of vegetation cover and revegetation efforts for stabilization and visual screening.

Vegetation Cover Percentage (%)

Enter a number...

Dominant Vegetation Type

- [ ] Native Grasses
- [ ] Shrubs
- [ ] Trees
- [ ] Other

Description of Vegetation Condition

Write something...

Last Revegetation Date

Enter date...

Revegetation Methods Used

- [ ] Seeding
- [ ] Planting
- [ ] Mulching
- [ ] Erosion Control Blankets

Photos of Vegetation Cover

Upload File

Stability Monitoring

Review of monitoring programs for slope stability, settlement, and seepage.

Monitoring Date

Enter date...

Piezometer Reading (m)

Enter a number...

Inclinometer Delta (mm)

Enter a number...

Surveyed Settlement (mm)

Enter a number...

Visual Inspection Condition

- [ ] Excellent
- [ ] Good
- [ ] Fair
- [ ] Poor

Visual Inspection Notes

Write something...

Supporting Photos/Reports

Upload File

Time of Observation

Emergency Response Planning

Evaluation of emergency procedures for dam failure or other incidents.

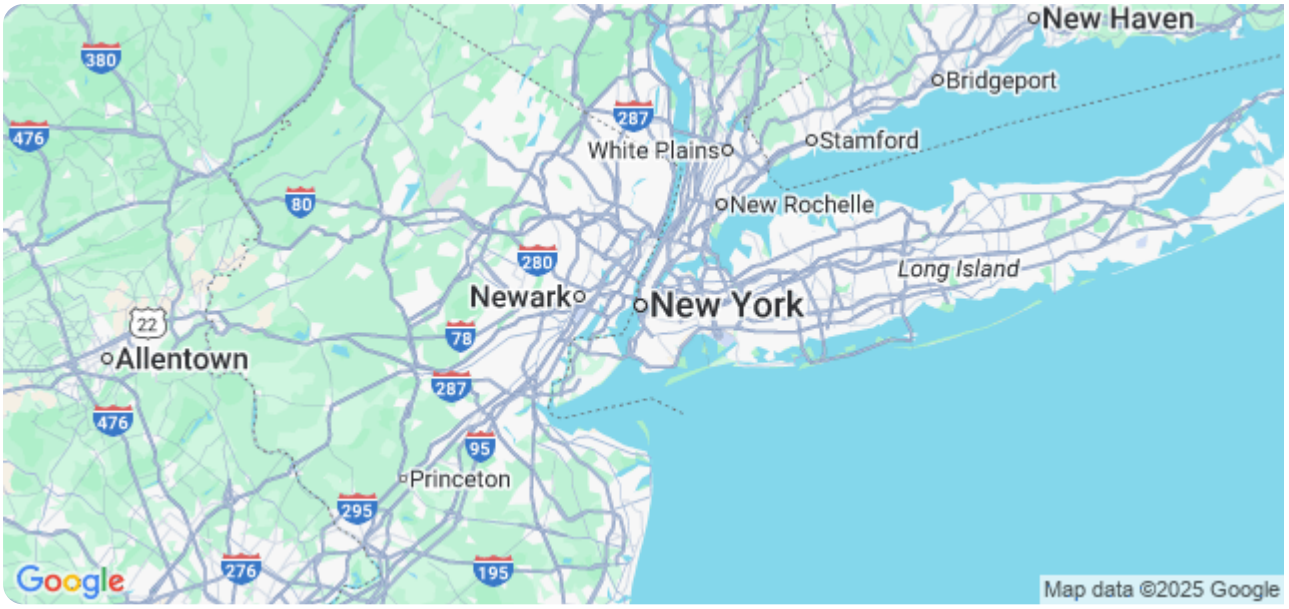
Emergency Type (Simulated)

- [ ] Fire
- [ ] Ground Fall
- [ ] Gas Release
- [ ] Equipment Failure
- [ ] Medical Emergency

Emergency Start Time (Simulated)

Emergency Location (Simulated)

Set My Current Location



Personnel Evacuated

Enter a number...

Observations During Response

Write something...

Communication Methods Used

- [ ] Radio
- [ ] Public Address System
- [ ] Mobile Phone
- [ ] Other

Emergency Response Date

Enter date...

Regulatory Compliance

Verification of adherence to relevant environmental regulations and permits.

Permit Status (Active/Suspended/Expired)

- [ ] Active
- [ ] Suspended
- [ ] Expired

Last Permit Renewal Date

Enter date...

Permit Expiry Period (Years)

Enter a number...

Copy of Key Permits (e.g., Environmental Permit)

Upload File

Compliance Audit Status (Passed/Failed/Pending)

- [ ] Passed
- [ ] Failed
- [ ] Pending

Summary of Recent Regulatory Interactions

Write something...

Applicable Environmental Regulations

- [ ] Clean Water Act
- [ ] Clean Air Act
- [ ] Resource Conservation and Recovery Act
- [ ] Endangered Species Act