



Mining Ground Control Checklist

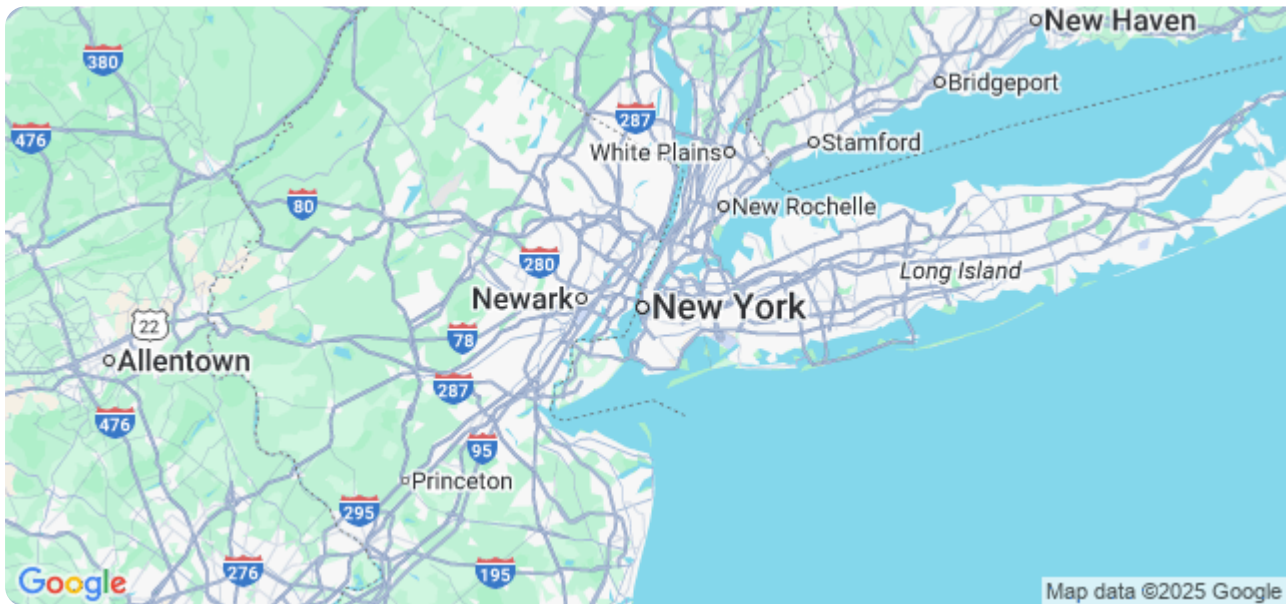
Visual Inspection & Mapping

Documentation of existing ground conditions, including cracks, shear zones, and geological structures.

Date of Inspection

Area/Block Inspected

 [Set My Current Location](#)



Geological Formation Present

Joint Spacing (Average)

Enter a number...

Orientation of Major Joints (Dip & Strike)

Write something...

Description of Visible Rock Defects (e.g., cracks, shear zones)

Write something...

Photographs of Ground Conditions

 Upload File

Rock Quality Designation (RQD)

- ☐ Excellent (90-100)
- ☐ Good (75-90)
- ☐ Fair (50-75)
- ☐ Poor (25-50)
- ☐ Very Poor (<25)

Support System Assessment

Evaluation of existing support systems (e.g., bolts, cable bolts, mesh) for effectiveness and integrity.

Bolt Torque (kN·m)

Enter a number...

Cable Bolt Length (m)

Enter a number...

Mesh Condition

- ☐ Good
- ☐ Fair
- ☐ Poor
- ☐ Damaged

Support System Issues

- ☐ Corrosion
- ☐ Loose Fasteners
- ☐ Grouted Void
- ☐ Damage/Deformation
- ☐ None Observed

Detailed Description of Support Condition

Write something...

Overall Support System Integrity

- ☐ Satisfactory
- ☐ Marginal
- ☐ Unsatisfactory

Convergence Monitoring

Review of convergence monitoring data (e.g., extensometers, tape surveys) to identify trends and potential instability.

Extensometer Reading (Point A)

Extensometer Reading (Point B)

Tape Survey - Crown Height (mm)

Tape Survey - Sidewall Closure (mm)

Convergence Monitoring Date

Convergence Monitoring Time

Observations & Anomalies

Write something...

Instrumentation Functionality

Verification that all ground support instrumentation (e.g., load cells, pressure cells) are functioning correctly.

Extensometer 1 Status

- ☐ Functional
- ☐ Faulty
- ☐ Not Installed
- ☐ Needs Calibration

Tape Survey Functionality

- ☐ Functional
- ☐ Faulty
- ☐ Needs Calibration

Load Cell 1 Reading (kN)

Enter a number...

Pressure Cell 1 Status

- ☐ Functional
- ☐ Faulty
- ☐ Needs Calibration

Last Calibration Date (Extensometer 1)

Enter date...

Ground Condition Changes

Documentation of any observed ground condition changes since last inspection and potential causes.

Describe Observed Changes

Write something...

Estimated Crack Width (mm)

Enter a number...

Date of Observed Change

Enter date...

Change Severity

- ☐ Minor
- ☐ Moderate
- ☐ Significant
- ☐ Critical

Potential Causes (Select all that apply)

- ☐ Blasting
- ☐ Water Ingress
- ☐ Ground Settlement
- ☐ Equipment Vibration
- ☐ Geological Feature

Attach Photos/Videos of Changes

 Upload File

Scaling & Mucking

Assessment of scaling and mucking activities to maintain stability and prevent future issues.

Scaling Volume (m³)

Enter a number...

Mucking Volume (m³)

Enter a number...

Rock Type Scaled/Mucked

- ☐ Shale
- ☐ Sandstone
- ☐ Limestone
- ☐ Granite
- ☐ Other

Description of Scaling/Mucking Activities

Write something...

Equipment Used

- ☐ Hydraulic Rock Breaker
- ☐ Manual
- ☐ Other

Date of Scaling/Mucking

Enter date...

Support Installation Verification

Confirmation that new ground support installations meet design specifications and are properly installed.

Bolt Length Installed (m)

Enter a number...

Cable Diameter Installed (mm)**Mesh Spacing (mm)****Bolt Type Verified?**☐ Yes☐ No☐ N/A**Cable Bolt Tension Verified?**☐ Yes☐ No☐ N/A**Support Method Confirmation**☐ Rock Bolts☐ Cable Bolts☐ Mesh☐ Shotcrete☐ Other**Comments/Observations on Installation**

Water Ingress

Assessment and documentation of water ingress and its potential impact on ground stability.

Water Flow Rate (L/s)

Enter a number...

Water Source Identified?

- ☐ Surface Water
- ☐ Groundwater
- ☐ Unknown

Description of Water Ingress Location

Write something...

Date of Initial Observation

Enter date...

Time of Initial Observation

Description of Water Quality (e.g., colour, odour)

Write something...

Photo/Video Evidence

 Upload File

Recommendations & Actions

Record of recommendations for ground control improvements and associated actions to be taken.

Detailed Description of Recommended Action

Write something...

Priority Level (1-5, 1=Highest)

Enter a number...

Target Completion Date

Enter date...

Responsible Party

- ☐ Mining Engineer
- ☐ Ground Control Specialist
- ☐ Production Supervisor
- ☐ Maintenance Team

Supporting Documentation Required

- ☐ Engineering Drawings
- ☐ Material Certificates
- ☐ Cost Estimates
- ☐ Risk Assessment

Authorized Signatory