



Mine Ventilation Dilution Checklist

Pre-Shift Ventilation Checks

Initial assessment of ventilation system functionality before commencement of shift operations.

Shift Start Time

Ventilation System Status (Pre-Shift)

- ☐ Normal
- ☐ Reduced
- ☐ Standby
- ☐ Faulted

Pre-Shift Ventilation Fan RPM (Fan 1)

Enter a number...

Pre-Shift Ventilation Fan RPM (Fan 2 - if applicable)

Enter a number...

Emergency Ventilation System Availability

- ☐ Available
- ☐ Unavailable
- ☐ Testing

Notes on Pre-Shift Ventilation Condition

Write something...

Airflow Measurement

Verification of airflow rates at strategic locations within the mine.

Airflow Rate (m³/s)

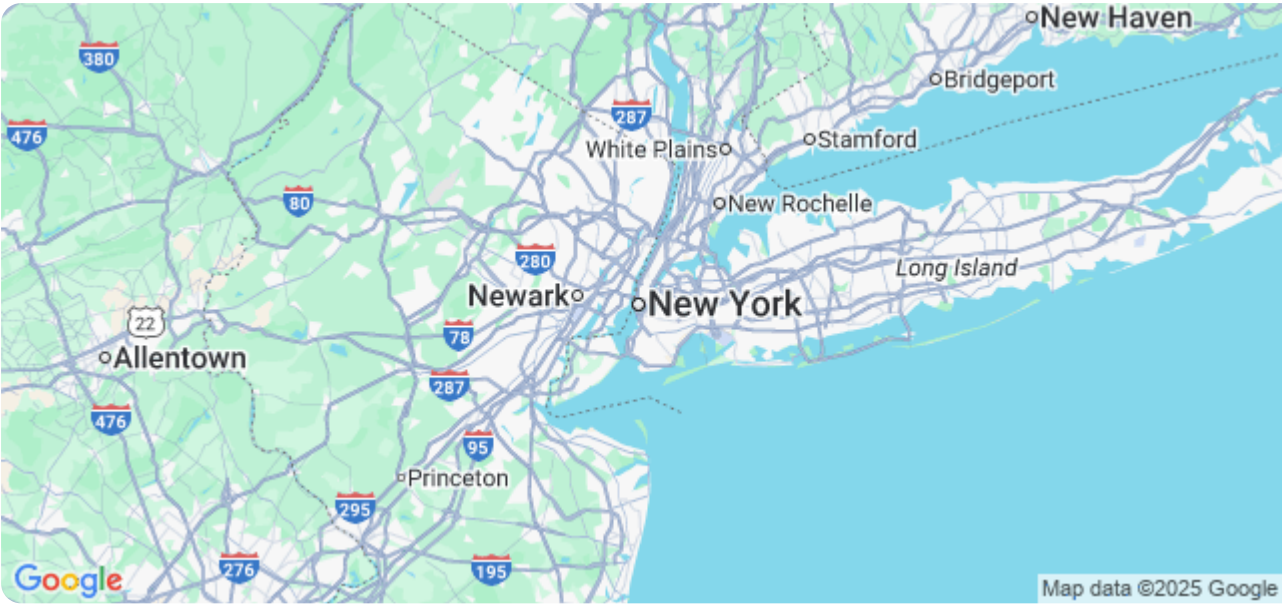
Enter a number...

Airflow Rate (CFM)

Enter a number...

Measurement Location (GPS Coordinates)

 Set My Current Location



Measurement Device Used

- ☐ Anemometer
- ☐ Pitot Tube
- ☐ Laser Doppler
- ☐ Other

Pitot Tube Pressure (Pa)

Enter a number...

Measurement Time

Notes on Measurement Conditions

Write something...

Dilution Factor Calculation

Determination of dilution factors to ensure acceptable air quality.

Gas Emission Rate (m³/s)

Enter a number...

Airflow to Mining Area (m³/s)

Enter a number...

Total Airflow (m³/s)

Enter a number...

Dilution Factor

Enter a number...

Gas Type (Primary Contributor)

- ☐ Methane
- ☐ Carbon Monoxide
- ☐ Other

Notes/Comments on Calculation

Write something...

Date of Calculation

Enter date...

Gas Monitoring

Monitoring of methane, carbon monoxide, and other hazardous gases.

Monitoring Start Time

Methane Concentration (ppm)

Enter a number...

Carbon Monoxide Concentration (ppm)

Enter a number...

Oxygen Concentration (%)

Enter a number...

Gas Detection Equipment Model

- ☐ Model A
- ☐ Model B
- ☐ Model C

Calibration Expiration Date (YYYY-MM-DD)

Enter a number...

Gas Monitoring Notes

Write something...

Ventilation Control Settings

Review of ventilation control system parameters and adjustments as needed.

Fan Speed (RPM)

Enter a number...

Air Volume (m³/s)

Enter a number...

Ventilation Pressure (Pa)

Enter a number...

Ventilation Mode

- ☐ Normal
- ☐ High
- ☐ Low
- ☐ Standby

Time of Adjustment

Reason for Adjustment

Write something...

Control System Status

- ☐ Operational
- ☐ Alarm
- ☐ Fault

Fan Performance Evaluation

Assessment of fan RPM, power consumption, and overall efficiency.

Fan RPM (Revolutions Per Minute)

Enter a number...

Motor Amperage (Amps)

Enter a number...

Static Pressure (inches of water)

Enter a number...

Air Volume (CFM or m³/s)

Enter a number...

Fan Noise Level (Subjective)

- ☐ Normal
- ☐ Slightly Elevated
- ☐ Elevated
- ☐ Excessive

Fan Vibration Observation (Describe)

Write something...

Fan Efficiency Rating (if available)

- ☐ Unknown
- ☐ Less than 75%
- ☐ 75-85%
- ☐ 85-95%
- ☐ 95% or higher

Last Maintenance Date

Enter date...

Stoping Area Ventilation

Specific ventilation checks for active stoping areas.

Airflow (m³/s) at Face

Enter a number...

Gas Concentration (methane, %) at Face

Enter a number...

Distance to Nearest Ventilation Control Panel (m)

Enter a number...

Ventilation Direction (as per plan)

☐ Correct

☐ Incorrect - Deviation Required

Observations & Deviations

Write something...

Time of Ventilation Check

Potential Hazards Identified

- ☐ Air Stagnation
- ☐ Gas Build-up
- ☐ Dust Concentration
- ☐ Insufficient Airflow
- ☐ None

Return Airway Assessment

Evaluation of airways used for return airflow.

Airflow Measurement (m³/s)

Enter a number...

Description of Airway Condition

Write something...

Evidence of Scaling/Support Required?

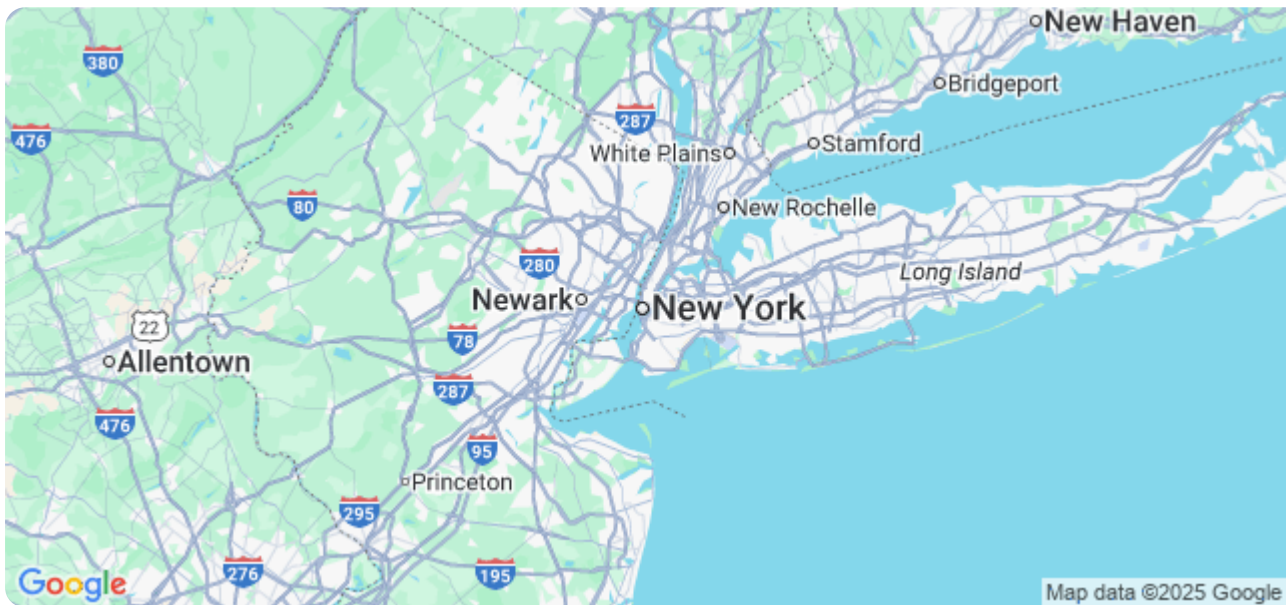
- ☐ Yes
- ☐ No
- ☐ Unsure

Potential Hazards Observed

- ☐ Blockage
- ☐ Water Inflow
- ☐ Ground Instability
- ☐ Poor Ventilation
- ☐ None

Return Airway Location

[📍 Set My Current Location](#)



Date of Assessment

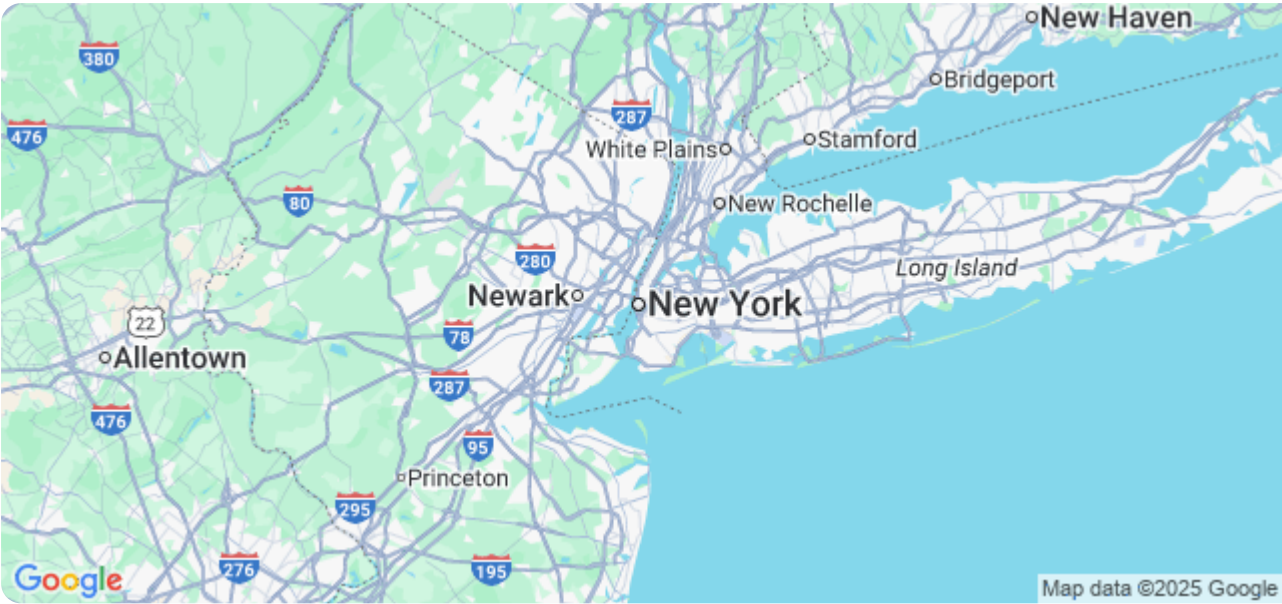
Enter date...

Ventilation Obstruction Check

Identification and correction of any obstructions affecting airflow.

Obstruction Location (GPS Coordinates)

 Set My Current Location



Type of Obstruction

- ☐ Rockfall
- ☐ Equipment
- ☐ Debris
- ☐ Material Storage
- ☐ Other

Detailed Description of Obstruction

Write something...

Estimated Obstruction Volume (m³)

Enter a number...

Impact on Airflow?

- ☐ No Impact
- ☐ Minor Impact
- ☐ Moderate Impact
- ☐ Significant Impact

Photo of Obstruction

 Upload File

Time Obstruction Notified

Record Keeping & Reporting

Documentation of ventilation data and reporting of any discrepancies.

Date of Ventilation Dilution Check

Enter date...

Time of Ventilation Dilution Check

Average Methane Concentration (ppm)

Enter a number...

Average Carbon Monoxide Concentration (ppm)

Enter a number...

Dilution Factor Achieved

Enter a number...

Dilution Factor Acceptance Status

- ☐ Acceptable
- ☐ Marginal
- ☐ Unacceptable

Observations & Deviations

Write something...

Ventilation Officer Signature