#### MINNESOTA POLLUTION CONTROL AGENCY

# MPCA permitting of metallic mining facilities

Mining & Forestry Policy Committee February 22, 2022



# Our mission Protect and improve the environment and human health.

# MPCA implements both state and federal environmental laws in Minnesota

Mining facilities need same types of permits as other industry sectors

- Must comply with the same standards and administrative processes as other sectors
- May contain certain requirements specific to mining







## **Types of permits** required for mining facilities include:

- Air emissions (PSD, Title V)
- Wastewater discharge (NPDES, SDS)
- Stormwater discharge (Construction & Industrial)
- $^{\circ}$  Wetlands impacts (401 Certification)
- $\circ$  Solid waste
- Hazardous waste
- Storage tanks



# Key air issues at mining facilities

- Updated National Ambient Air Quality Standards (NAAQS)
- Regional haze, visibility
- Fugitive dust
- Climate change, greenhouse gases
- Mercury



#### **Air Quality Permits**

MPCA has a joint construction and operating permitting program

### • Federal Title V (or Part 70) permit

- $\,\circ\,$  Federal operating permit required by Clean Air Act issued by MPCA
- Sets requirements on operation, monitoring and reporting
- $\circ$  5-year permit term must be reissued thereafter

#### Construction permit (NSR/PSD) permit

- $\,\circ\,$  Required under federal Clean Air Act issued by MPCA
- Required when project involves construction
- $\,\circ\,$  Assesses whether the proposed project will comply with applicable standards

#### **Air Quality Permits**

#### 'State only' Construction and Operating Air Permit

- $\odot$  Applies to smaller operations
- $\odot$  Authorized by Minnesota Rules
- May be applicable to projects with lower air emissions (such as scram mining)
- 'Individual' permit -or- 'registration' permit (for smallest emitters)
- $\circ$  Permits do not expire

#### **Air Quality Permits**

# Process

- Must obtain permit prior to construction
- Application review and permit drafting 6 to 12 months, varies
- Pre-public notice review by Tribes and permittee 2 weeks
- Public Notice / Public Comment Period 30 days
- Respond to public comments varies
- Permit sent to EPA for review 45 days
- Issue permit decision open to legal challenge within 60 days

# Key wastewater issues at mining facilities

#### Sulfate

Wild Rice – current 10 mg/L standard Impaired water listings and implementation

#### 'Functional Equivalent' Analyses

Outcome of US Supreme Court 'Maui' case No clear EPA guidance on implementation

#### **Class 3 and 4 Standards**

Implementation of revised standards (translator)

#### Mercury

Mercury methylation / sulfate TMDL, fish consumption advisories

#### Antidegradation

Protects existing water quality for new and expanded discharges



#### Wastewater Discharge Permits

#### National Pollutant Discharge Elimination System (NPDES) Permit

- Federal permit required by Clean Water Act issued by MPCA
- Authorizes wastewater discharges to surface waters
- Includes discharge limits and other requirements to protect water quality standards
- 5-year permit term must be reissued thereafter

### State Disposal System (SDS) Permit

- State permit required by Minnesota rules
- Authorizes operation of wastewater disposal systems and discharges to groundwater
- Usually issued together with the NPDES permit
- 5- or 10-year permit term must be reissued thereafter

#### Wastewater Discharge Permits

# **Process**

- Submittal of permit application 180 days prior to expiration or new discharge
- Application review and permit drafting 3 12 months, varies
- Pre-public notice review by Tribes and permittee 2 weeks
- Public Notice / Public Comment Period 30 days
- Respond to public comments variable
- EPA review throughout the entire process
- Issue permit decision open to legal challenge within 30 days

# Industrial Stormwater Multi-sector General Permit

- Required under federal Clean Air Act issued by MPCA
- Regulates stormwater by industry sector
- Requires benchmark monitoring and stormwater pollution prevention plans (SWPPPs)
- Stormwater requirements can be included in individual NPDES permit, negating need for general permit coverage
- Coverage effective <3 days after submittal of complete application

#### **Stormwater Discharge Permits**

## **Construction Stormwater General Permit**

- Required when project involves construction >1 acre
- Regulates stormwater from construction activities
- General permit with requirements applicable to all facilities
- Requires best management practices and SWPPPs
- Coverage effective <3 days after submittal of complete application (May be up to 30 days for larger or more complex projects)

#### **Other Permits**

# **Additional Permits That May Be Needed**

- Solid waste
- Hazardous waste
- Tanks

# 401 Certification (wetlands)

- Required for projects needing a US Army Corps of Engineers Section 404 permit
- Is a state certification to the US Army Corps that the project does not cause a violation of state water quality standards
- Typically addresses wetland and stream impacts
- May require mitigation (replacement, compensation) and/or monitoring
- Typically 10 to 30 day public comment period prior to issuance of certification



# QUESTIONS?