

Ely – Fernberg Road

Site information:

AQS Site ID: **27-075-0005**
MPCA Site ID: **0005**
NADP Site ID: **MN18**
IMPROVE Site ID: **BOWA1**
Address: **Fernberg Rd**
City: **Ely**

County: **Lake**
Location Setting: **Rural**
Latitude: **47.9466**
Longitude: **-91.4956**
Elevation: **528 m**
Year Established: **1977**

Monitoring parameters:

PM _{2.5} FRM	PM _{2.5} Continuous FEM	PM _{2.5} Speciation**	PM ₁₀	TSP/Metals	VOCs	Carbonyls	Carbon Monoxide	Ozone	SO ₂	NO _x	Meteorological Data	Other*
	E	1/6						E				E

E = Existing, A = Proposed to Add, T = Proposed to Terminate
Sampling Frequency: 1/1 = Everyday, 1/3 = 1-in-3 day, 1/6 = 1-in-6 day

*Acid and Hg Deposition

**IMPROVE



Site description:

This monitoring site is located in a remote hilltop clearing approximately 19 miles east of Ely, adjacent to the Boundary Waters Canoe Area Wilderness. Land use surrounding this site is managed forests, recreation, and wilderness. This site is operated and maintained by the Superior National Forest, with support from the MPCA.

Monitoring objectives:

- Demonstrate compliance with ozone and PM_{2.5} NAAQS.
- Support AQI reporting and forecasting for PM_{2.5} and ozone.
- Characterize precipitation chemistry to track long-term spatial and temporal trends, support research, and assess effectiveness of State and Federal SO₂ and mercury emissions reduction programs.
- Demonstrate compliance with the Minnesota Wet Sulfate Deposition Standard (Minn. R. 7005.4010 to 7005.4050).
- Characterize fine particle chemistry to quantify existing conditions, track trends, and develop plans to protect visibility in Class 1 wilderness areas.

Planned changes:

None