

CHAPTER 7009
MINNESOTA POLLUTION CONTROL AGENCY
AIR QUALITY DIVISION
AMBIENT AIR QUALITY STANDARDS

7009 0050 MEASUREMENT METHODOLOGY,
 EXCEPT FOR HYDROGEN SULFIDE
 7009 0060 MEASUREMENT METHODOLOGY
 FOR HYDROGEN SULFIDE

7009 0080 STATE AMBIENT AIR QUALITY
 STANDARDS

7009.0050 MEASUREMENT METHODOLOGY, EXCEPT FOR HYDROGEN SULFIDE.

For all ambient air quality standards except hydrogen sulfide, measurements made to determine compliance with the standards shall be performed as set forth in.

A Code of Federal Regulations, title 40, part 50, National Primary and Secondary Ambient Air Quality Standards, as amended, or

B Code of Federal Regulations, title 40, part 53—Ambient Air Monitoring Reference and Equivalent Methods, as amended, and

C Code of Federal Regulations, title 40, part 58, Ambient Air Quality Surveillance, as amended

Statutory Authority: *MS s 116.07*

History: *19 SR 550*

7009.0060 MEASUREMENT METHODOLOGY FOR HYDROGEN SULFIDE.

For hydrogen sulfide, measurements made to determine compliance with the standards shall be performed in accordance with any measurement method approved by the commissioner. The commissioner shall approve a measurement method where the sensitivity, precision, accuracy, response time, and interference levels of the method are comparable to that of the measurement methods for the other pollutants described in part 7009 0050, and when the person seeking to take the measurement has developed and submitted to the agency a quality assurance plan that provides operational procedures for each of the activities described in Code of Federal Regulations, as amended, title 40, part 58, appendix A 2 2, Quality Assurance Requirements for State and Local Air Monitoring Stations

Statutory Authority: *MS s 116 07*

History: *19 SR 550*

7009.0080 STATE AMBIENT AIR QUALITY STANDARDS.

The following table contains the state ambient air quality standards

Pollutant/ Air Contaminant	Primary Standard	Secondary Standard	Remarks
Hydrogen Sulfide	0.05 ppm by volume (70.0 micrograms per cubic meter)		1/2 hour average not to be exceeded over 2 times per year
	0.03 ppm by volume (42.0 micrograms per cubic meter)		1/2 hour average not to be exceeded over 2 times in any 5 consecutive days

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Ozone	0 12 ppm by volume (235 micrograms per cubic meter)	0 12 ppm by volume (235 micrograms per cubic meter)	the standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above the standard is equal to or less than one, as determined by Code of Federal Regulations, title 40, part 50, appendix H, Interpretation of the National Ambient Air Quality Standards for Ozone (1981)
Carbon Monoxide	9 ppm by volume (10 milligrams per cubic meter)	9 ppm by volume (10 milligrams per cubic meter)	maximum 8 hour concentration not to be exceeded more than once per year
	30 ppm by volume (35 milligrams per cubic meter)	30 ppm by volume (35 milligrams per cubic meter)	maximum 1 hour concentration not to be exceeded more than once per year
Hydro carbons	0 24 ppm by volume (160 micrograms per cubic meter)	0 24 ppm by volume (160 micrograms per cubic meter)	maximum 3 hour concentration (6 00 to 9 00 a m) not to be exceeded more than once per year, corrected for methane
Sulfur Dioxides	80 micrograms per cubic meter (0 03 ppm by volume)	60 micrograms per cubic meter (0 02 ppm by volume)	maximum annual arithmetic mean
	365 micrograms per cubic meter (0 14 ppm by volume)	365 micrograms per cubic meter (0 14 ppm by volume)	maximum 24 hour concentration not to be exceeded more than once per year

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		915 micrograms per cubic meter (0.35 ppm by volume)	maximum 3 hour concentration not to be exceeded more than once per year in Air Quality Control Regions 127, 129, 130, and 132 as set forth in Code of Federal Regulations, title 40, part 81, Designations of Air Quality Control Regions (1981)
		1300 micrograms per cubic meter (0.5 ppm by volume)	maximum 3 hour concentration not to be exceeded more than once per year in Air Quality Control Regions 128, 131, and 133 as set forth in Code of Federal Regulations, title 40, part 81, Designation of Air Quality Control Regions (1981)
		1300 micrograms per cubic meter (0.5 ppm by volume)	maximum 3 hour concentration not to be exceeded more than once per year
		1300 micrograms per cubic meter (0.5 ppm by volume)	maximum 1 hour concentration not to be exceeded more than once per year
Particulate Matter	75 micrograms per cubic meter	60 micrograms per cubic meter	maximum annual geometric mean
	260 micrograms per cubic meter	150 micrograms per cubic meter	maximum 24 hour concentration not to be exceeded more than once per year
Nitrogen Dioxides	0.05 ppm by volume (100 micrograms per cubic meter)	0.05 ppm by volume (100 micrograms per cubic meter)	maximum annual arithmetic mean

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Lead	1.5 micrograms per cubic meter	same as primary standard	maximum arithmetic mean averaged over a calendar quarter
PM10	150 micrograms per cubic meter	same as primary standard	maximum 24-hour average concentration; the standard is attained when the expected number of days per calendar year exceeding the value of the standard is equal to or less than one
	50 micrograms per cubic meter	same as primary standard	annual arithmetic mean; the standard is attained when the expected annual arithmetic mean concentration is less than or equal to the value of the standard

Statutory Authority: *MS s 116 07*

History: *19 SR 550*