

**PROPOSED REGULATION OF THE
STATE ENVIRONMENTAL COMMISSION**

P2017-05

December 5, 2017

EXPLANATION – Matter in *italics* is new; matter in brackets [~~omitted material~~] is material to be omitted.

AUTHORITY: §§1 and 2, NRS 445B.210.

A PERMANENT REGULATION relating to air pollution; revising provisions governing ambient air quality standards and providing other matters properly relating thereto.

Section 1. NAC 445B.22097 is hereby amended to read as follows:

NAC 445B.22097 Standards of quality for ambient air.

445B.22097 1. The table contained in this section lists the minimum standards of quality for ambient air.

| | | NEVADA STANDARDS ^{A, D} | | [NATIONAL STANDARDS ^B] | | |
|---|----------------|--------------------------------------|--|------------------------------------|------------------------|--|
| POLLUTANT | AVERAGING TIME | CONCENTRATION ^C | [METHOD ^D] | PRIMARY ^E | SECONDARY ^E | METHOD ^D |
| Ozone | 8 hours | 0.075 <i>0.070</i> ppm | Chemiluminescence | 0.075 ppm | Same as primary | Chemiluminescence |
| Ozone-Lake Tahoe Basin, #90 | 1 hour | 0.10 ppm (195 µg/m ³) | Ultraviolet absorption | — | — | — |
| Carbon monoxide less than 5,000' above mean sea level | 8 hours | 9 ppm (10,500 µg/m ³) | Nondispersive infrared photometry | 9 ppm (10 mg/m ³) | [None] | Nondispersive infrared photometry |
| At or greater than 5,000' above mean sea level | | 6 ppm (7,000 µg/m ³) | | | | |

| | | NEVADA STANDARDS ^{A, D} | | NATIONAL STANDARDS^B | | |
|---|------------------------|---|---|---|----------------------------------|--|
| POLLUTANT | AVERAGING TIME | CONCENTRATION ^C | METHOD^D | PRIMARY^E | SECONDARY^E | METHOD^D |
| Carbon monoxide at any elevation | 1 hour | 35 ppm (40,500 µg/m ³) | | {35 ppm (40 mg/m³)} | | |
| Nitrogen dioxide | Annual arithmetic mean | 0.053 ppm (100 µg/m ³) | {Gas phase chemiluminescence} | 53 ppb^G | Same as primary | Gas phase chemiluminescence} |
| | 1 hour | 100 ppb | {—} | 100 ppb | {None} | |
| Sulfur dioxide | Annual arithmetic mean | 0.030 ppm (80 µg/m ³) | {Ultraviolet fluorescence} | {0.03 ppm^H (1971 standard)} | {None} | {Spectrophotometry (Pararosaniline method)} |
| | 24 hours | 0.14 ppm (365 µg/m ³) | | {0.14 ppm^H (1971 standard)} | | |
| | 3 hours | 0.5 ppm (1,300 µg/m ³) | | {None} | 0.5 ppm} | |
| | 1 hour | 75 ppb | {—} | 75 ppb | {None} | |
| Particulate matter as PM ₁₀ | 24 hours | 150 µg/m ³ | {High volume PM₁₀ sampling} | 150 µg/m³ | Same as primary | High or low volume PM₁₀ sampling} |
| Particulate matter as PM _{2.5} | Annual arithmetic mean | 12.0 µg/m ³ | {—} | 12.0 µg/m³ | Same as primary} | {Low volume PM_{2.5} sampling} |
| | 24 hours | 35 µg/m ³ | {—} | 35 µg/m³ | Same as primary} | |
| Lead (Pb) | Rolling 3 mo. average | 0.15 µg/m ³ | {High volume sampling, acid extraction and atomic absorption spectrometry} | 0.15 µg/m³ | Same as primary} | High volume sampling, acid extraction and atomic absorption spectrometry} |
| Hydrogen sulfide | 1 hour | 0.08 ppm (112 µg/m ³) ^I | {Ultraviolet fluorescence} | — | — | {—} |

Notes:

Note A: The Director shall use the Nevada standards in considering whether to issue a permit for a stationary source and shall ensure that the stationary source will not cause the Nevada standards to be exceeded in areas where the general public has access. For the 2006 particulate matter as PM_{2.5} 24-hour and annual standards, the 2010 nitrogen dioxide 1-hour standard and the 2010 sulfur dioxide 1-hour

standard, the Director shall use the form of the standards set forth in 40 C.F.R. §§ 50.11, 50.13 and 50.17, as those provisions existed on June 23, 2014, to ensure that the Nevada standard is no more stringent than the National standard in determining whether the stationary source will comply with the Nevada standards in areas where the general public has access.

Note B: The National standards are used in determinations of attainment or nonattainment. The form of a National standard is the criteria which must be satisfied for each respective concentration level of a standard for the purposes of attainment. The form for each National standard is set forth in 40 C.F.R. Part 50 and may be viewed at ~~<http://www.epa.gov/air/criteria.html>~~ <https://www.epa.gov/criteria-air-pollutants/naaqs-table>.

Note C: Where applicable and except as otherwise described in Note G, concentration is expressed first in units in which it was adopted. Measurements of air quality that are expressed as mass per unit volume, such as micrograms per cubic meter, must be corrected to a reference temperature of 25 degrees Centigrade and a reference pressure of 760 mm of Hg (1,013.2 millibars), except measurements of particulate matter as PM_{2.5} and lead (Pb), which are calculated in micrograms per cubic meter at local conditions; “ppb” in this table refers to parts per billion by volume, or nanomoles of regulated air pollutant per mole of gas; “ppm” refers to parts per million by volume, or micromoles of regulated air pollutant per mole of gas; “µg/m³” refers to micrograms per cubic meter.

Note D: ~~Reference method as described by the EPA. Any reference method specified in accordance with 40 C.F.R. Part 50 or any~~ Any reference method or equivalent method designated in accordance with 40 C.F.R. Part 53 may be ~~substituted~~ *used to measure a regulated air pollutant*.

Note E: National primary standards are the levels of air quality necessary, with an adequate margin of safety, to protect the public health.

Note F: National secondary standards are the levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a regulated air pollutant.

Note G: The official National annual standard for nitrogen dioxide is 0.053 ppm. The National annual standard is identified in this table in equivalent units of parts per billion for the purpose of simplifying its comparison with the National 1-hour standard which is also identified in parts per billion.

Note H: The 1971 National sulfur dioxide standards remain in effect for an area until 1 year after the area is designated for the 2010 National sulfur dioxide standard, except that in an area designated nonattainment for the 1971 National sulfur dioxide standards, the 1971 standards remain in effect until an implementation plan to attain or maintain the 2010 National sulfur dioxide standards is approved.

Note I: The ambient air quality standard for hydrogen sulfide does not include naturally occurring background concentrations.

2. These standards of quality for ambient air are minimum goals, and it is the intent of the Commission in this section to protect the existing quality of Nevada's air to the extent that it is economically and technically feasible.