

STATE OF NEVADA  
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL PROTECTION – BUREAU OF AIR POLLUTION CONTROL

**Director’s Review and Preliminary Determination of Permit Issuance for**

**Geo-Nevada, Inc.  
Spring Valley Mine  
Lyon County, Nevada  
January 23, 2023**

Geo-Nevada, Inc. (Geo-Nevada) submitted an application for a new Class II Air Quality Operating Permit, AP1041-4391, FIN A0715, for the Spring Valley Mine facility in Lyon County, Nevada. The project is located by traveling east on US-50 to the Junction of SR-341, then by continuing north on SR-341 for approximately 1.5 miles. The entrance of the mine site is located on the east side of the road. The project is located in all or portions of Sections 20 and 21, Township 16 N, Range 21 E, M.D.B.&M.

Geo-Nevada proposes to obtain a new Class II Air Quality Operating Permit for their gold mining operations at Spring Valley Mine. Emission units include material handling and a jaw crusher.

The Nevada Division of Environmental Protection – Bureau of Air Pollution Control (BAPC) has reviewed the application for the above-referenced operating permit, and has made a preliminary determination to issue the operating permit. The facility-wide Potential to Emit (PTE), including emissions from Non-Permit equipment are given in the table below.

	<i>Spring Valley Mine Potential to Emit (PTE)</i>		
	Pollutant		Facility-Wide (tons/year)
	Current emissions estimates indicate Geo-Nevada is a <i>Class II source</i> , because the facility-wide PTE for any individual regulated pollutant is <i>less than 100 tons per year</i> .	<b>PM</b>	Particulate Matter
<b>PM<sub>10</sub></b>		Particulate Matter ≤ 10 microns in diameter	1.15
<b>PM<sub>2.5</sub></b>		Particulate Matter ≤ 2.5 microns in diameter	0.17
<b>SO<sub>2</sub></b>		Sulfur Dioxide	0.00
<b>NO<sub>x</sub></b>		Oxides of Nitrogen	0.00
<b>CO</b>		Carbon Monoxide	0.00
<b>VOC</b>		Volatile Organic Compounds	0.00
<b>Pb</b>		Lead	0.00
<b>HAPs (all)</b>		Hazardous Air Pollutants	0.00

The project is located in Air Quality Hydrographic Area (HA) 103 of the Dayton Valley. HA 103 is not a triggered basin for an increment analysis. Geo-Nevada will be subject to 40 CFR Part 60 Subpart LL.

Air dispersion modeling conducted by the applicant and the Nevada Division of Environmental Protection – Bureau of Air Quality Planning (BAQP) demonstrates that continued operation of Geo-Nevada, will not violate any air quality standard.

Geo-Nevada must comply with all State and Federal air quality requirements and all conditions established within the proposed draft Class II Air Quality Operating Permit.