

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

**Solidus Resources, LLC
Spring Valley Mine Project
Pershing County, Nevada
December 1, 2025**

Solidus Resources, LLC (Solidus) submitted an application for a new Class I Air Quality Operating Permit AP1041-4681, FIN A2214, for the Solidus facility in Pershing County, Nevada. The project is located approximately 20 miles northeast of Lovelock, Nevada, and east of I-80 exit 119 on Unionville Road. The project is located in all or portions of Sections 24 through 28 and 33 through 36, Township 29 N, Range 34 E; Sections 19 through 21 and 28 through 32, Township 29 N, Range 35 E; Sections 1 through 4, Township 28 N, Range 34 E; and Sections 4 through 6, Township 28 N, Range 35 E, M.D.B.&M.

Solidus Resources, LLC proposes to operate an open pit, heap leach, and precious metals recovery mining operation. The site will include crushing and screening, cyanide heap leach, and refinery operations.

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.

Current emissions estimates indicate Solidus is a minor source as emissions of one or more criteria pollutant are less than 100 tons per year (TPY), but the facility is subject to 40 CFR Part 63 Subpart EEEEEEE and is required to have a Class I (Title V) operating permit. Solidus is classified as an area source of HAPs as the PTE for a single HAP is less than 10 TPY and combined HAPs are less than 25 TPY.	<i>Solidus Potential to Emit (PTE)</i>			
	Pollutant		Facility-Wide (tons/year)	Class I (tons/year)
	PM	Particulate Matter	94.9	0.60
	PM₁₀	Particulate Matter ≤ 10 microns in diameter	51.5	0.60
	PM_{2.5}	Particulate Matter ≤ 2.5 microns in diameter	30.2	0.60
	SO₂	Sulfur Dioxide	0.0031	N/A
	NO_x	Oxides of Nitrogen	0.30	N/A
	CO	Carbon Monoxide	1.54	N/A
	VOC	Volatile Organic Compounds	0.63	N/A
	Pb	Lead	N/A	N/A
	Hg	Mercury	0.011	0.011
	HAP (single)	Hazardous Air Pollutants	< 10	< 10
	HAPs (all)	Hazardous Air Pollutants	0.0031	< 10
	GHG (CO_{2e})	Greenhouse Gases (Carbon Dioxide Equivalent)	341.9	0.00

The project is located in Air Quality Hydrographic Area (HA) 129 of the Buena Vista Valley, and HA 73A of the Lovelock Valley/Oreana Sub-Area. HA 129 and HA 73A are not triggered basins for increment analyses. Solidus will be subject to 40 CFR Part 63 Subpart EEEEEEE – National Emission Standards for Hazardous Air Pollutants: Gold Mine Ore Processing and Production Area Source Category.

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 Solidus will not violate any air quality standard.

Prevention of Significant Deterioration (PSD) review is not triggered for this permit action. No adverse air quality impacts are anticipated as a result of the proposed action. Solidus shall comply with all State and Federal air quality requirements and all conditions established within the proposed draft operating permit.