

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  
 Barrick Cortez, Inc.  
 State Route 306, Crescent Valley, Nevada  
 February 13, 2013**

Barrick Cortez, Inc. (Barrick) submitted an application for a minor revision of the Barrick Title V Operating Permit AP1041-2141. Barrick is located in Lander County, Crescent Valley, Nevada, approximately 38 miles south of I-80 on State Route 306. Barrick currently operates a gold mining and processing facility. Barrick's current operations consist of the Pipeline Mine and the Cortez Hills Mine. Under the existing Class I Air Quality Operating Permit, Barrick is permitted to operate three open pit mines, four heap leach facilities, five crushing plants, two precious metals carbon-in-leach (CIL) mills, a resin-in-pulp (RIP) mill, a refinery, assay laboratory, several lime silos for heap leach operations, shotcrete plant, underground backfill plant, aggregate processing plants, and soil/remediation operations. All activities under the existing Class I Air Quality Operating Permit are located on contiguous property owned and controlled by Barrick.

Barrick proposes to revise their Title V Operating Permit by increasing emission limits for the carbon kilns (System 10); increasing the burner rating, fuel rate, and emission limits for the carbon stripping heaters (System 11); increasing the Pipeline mill lime silo (System 12) unloading rate; increasing the emission limits for the Cortez Hills Crush Plant (System 31); increasing throughput rates and emission limits for Overland Conveyer (System 32A); removing the Cortez Hills Underground Shaft Heaters (System 47); revising two gasoline dispensing stations (Systems 49A-49B); adding a gasoline dispensing station (System 49C); adding three new lime silos (Systems 52-53-54); adding a new cement silo (System 55); adding four new emergency generators (Systems 55-56-57-58); removing general and specific construction requirements for permitted units; and revising Method 9 testing requirements for permitted units subject to 40 CFR Part 60 Subpart OOO. Facility changes result in a net increase of 4.91 tons/yr PM, a net increase of 4.12 tons/year PM<sub>10</sub>, a net increase of 2.42 tons/yr for NO<sub>x</sub>, a net increase of 1.36 tons/yr for SO<sub>2</sub>, a net increase of 57.30 tons/yr for CO, and a net increase of 7.40 tons/yr for VOCs.

The Barrick facility-wide potential-to-emit (PTE) with the proposed revision is shown in the table below:

As proposed, Barrick will continue to be a Class I source. The potential-to-emit (PTE) of each regulated air pollutant is less than the 250 ton per year PSD threshold for major source designation. Barrick is subject to NSPS 40 CFR Part 60 Subparts Dc, LL, OOO, IIII and NESHAP 40 CFR Part 63 Subparts ZZZZ and CCCCCC.	<b>Barrick Cortez Facility-Wide Potential to Emit</b>		
	<b>Pollutant</b>		<b>Tons/Year</b>
	<b>PM</b>	<b>Particulate Matter</b>	<b>211.2</b>
	<b>PM<sub>10</sub></b>	<b>Particulate matter &lt;10 microns in diameter</b>	<b>123.1</b>
	<b>NO<sub>x</sub></b>	<b>Oxides of Nitrogen</b>	<b>124.0</b>
	<b>CO</b>	<b>Carbon monoxide</b>	<b>82.9</b>
	<b>VOC</b>	<b>Volatile Organic Compounds</b>	<b>19.8</b>
<b>SO<sub>2</sub></b>	<b>Sulfur Dioxide</b>	<b>11.9</b>	

The project is located in Air Quality Hydrographic Area (HA) 54. HA 54 is currently unclassified for PM<sub>10</sub>, NO<sub>x</sub>, CO, SO<sub>2</sub>, O<sub>3</sub>, and lead criteria pollutants, which have an ambient air quality standard. The air quality analyses demonstrate that the emissions from the revised permit will not cause or contribute to a violation of any applicable federal or state ambient air quality standards.

The Nevada Division of Environmental Protection – Bureau of Air Pollution Control has reviewed the application and has made a preliminary determination to issue the revised Title V Operating Permit. Barrick must comply with all State and Federal air quality requirements and all conditions established within the proposed Title V Operating Permit.