

# Air Quality Management

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SILVERCORP IN CHINA

STRATEGY AND MANAGEMENT

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APPENDIX

## Dust Control

Silvercorp strictly implements the requirements of relevant policies, regulations and standards on air pollution prevention and control, monitors air pollutants emissions and strives to improve the treatment of air pollution and ensure compliance with emissions requirements. The Company contracts qualified inspection agencies to monitor its air quality regularly and has increased the frequency of monitoring recently.

The Company has formulated the *Company Dust Prevention and Control Implementation Plan*. Focusing on controlling from the source and comprehensive utilization, the Company has developed a targeted plan for dust prevention and treatment that includes measures such as keeping dust-producing processes and equipment enclosed to control dust at the source, upgrading dust control measures in production and transportation operations, and strengthening and modernizing dust control systems and capabilities. The Company also strives to utilize dust where possible. Dust produced by the ore crushing system is collected and mixed with water to become pulp, which is then pumped to the flotation workshop. In Fiscal 2023, the Company compiled the *Environmental Protection Refined Management and Digital Transformation Handbook*,

specifying the different management approaches and control measures for different air pollutants and calling for stronger capabilities to prevent and treat air pollution. Guangdong Found has revised the *Air Pollution Prevention and Control Management Policy* to further strengthen the management of dust control. In addition, Guangdong Found added fog cannons in different locations of the mines to reduce dust.



Using fog cannons to reduce dust

Sources of Dust	Dust Control Approach
Waste rock yard	<ul style="list-style-type: none"> <li>Reducing dust with dust nets and fog cannons.</li> </ul>
Transportation roads	<ul style="list-style-type: none"> <li>Conducting regularly clean up along the transportation route, covering up the trunk of the transportation vehicles, and automatically cleaning vehicles entering and exiting our plants.</li> </ul>
Ore stockpiles	<ul style="list-style-type: none"> <li>Paving the ore storage facilities with hardened surfaces and using fog cannon for dust suppression; and using sealed ore storage facilities and artificial fog systems to reduce dust in the processing plants.</li> </ul>
Industrial site	<ul style="list-style-type: none"> <li>Using wet dust removal equipment and bag filters in the processing plant; installing dust collection equipment and water sprinkling system at dust production points.</li> <li>Sealing up the top space of sifting workshop and ore concentrate storage, collecting air with particulate waste using airtight exhaust, and using bag filters to remove the particulate waste.</li> </ul>

### Actions in Fiscal 2023

#### Ying Mining District

- Upgraded roads in mining areas to hardened surface;
- Built a sealed structure over the ore stockpiling areas with artificial fog system, deployed fog cannons in unloading points for materials (ore, waste rock), and installed vehicle cleaning device at the entrance to of mines and processing plants;
- Carried out regular road cleaning, sprinkling and dust suppression.

#### GC Mine

- Arranged sprinkler vehicles to sprinkle water for dust suppression along the roads under certain weather conditions in mines to reduce dust;
- Conducted regular maintenance of road sprinkling system to ensure stable operation;
- Deployed fog cannons at the unloading points of temporary ore storage sites and waste rock storage sites to improve dust control.



## Air Pollutant Management

The Company actively carries out flue gas control and strives to reduce the amount of flue gas generated in its production and operation activities. The Company had decommissioned all coal-fired boilers and replaced them with electric boilers, thus eliminating the emission of sulfur oxides.

Silvercorp manages its air pollutant emissions in an accordance with the requirements of the *Comprehensive Standards for Emission of Atmospheric Pollutants* (GB16297-1996) and the *Standard for Emission Limit of Atmospheric Pollutants* (DB44/27-2001). The Company requires all mines to monitor both unorganized and organized waste gas generated in the mining production process at least quarterly and has formulated a *Waste Gas Monitoring List* with different alert levels set for mines in different geographical locations. The Company also specifies the relevant standards and responsibilities regarding air pollutants in the newly compiled *Environmental Protection Refined Management and Digital Transformation Handbook*.



Dust collection facility



### Air Pollutant Emissions

Sulfur oxides (SO <sub>x</sub> )		(tonnes) <sup>Note 1</sup>	Nitrous oxides (NO <sub>x</sub> )		(tonnes) <sup>Note 2</sup>
Fiscal 2023	0		Fiscal 2023	614.48 <sup>Note 3</sup>	
Fiscal 2022	0		Fiscal 2022	500.07	
Fiscal 2021	0		Fiscal 2021	464.06	

  

Ammonia nitrogen compounds		(tonnes)
Fiscal 2023	0.474	
Fiscal 2022	0.526	
Fiscal 2021	0.53	

Note 1: Coal-fired boilers have been completely decommissioned in our mines so there are no sulfide emissions.

Note 2: Contains nitrogen oxides generated by the explosion of dynamite and combustion of diesel and gasoline.

Note 3: The amount of nitrogen oxide generated this year is relatively high, which is mainly due to an increase in dynamite (ammonium nitrate) used to increase production output of Henan Found.