

ALASKA TOP HAZARDOUS AIR POLLUTANTS

COKE OVEN EMISSIONS

Class A Carcinogen

The inventory method and available data do not indicate emissions occurring in the three inventoried communities. However, this does not mean there are no emissions of this pollutant in the state.

Inhalation Unit Risk Estimate for Cancer

- Coke Oven Emissions - $0.00062 (\mu\text{g}/\text{m}^3)^{-1}$ for lung, trachea, bronchus, kidney, prostate, and other cancers - humans

Inventory Estimates for Coke Oven Emissions

Community	Ranking by Mass	Total Emitted (tons per year)	Top Sources
Anchorage*	n/a	---	n/a
Fairbanks*	n/a	---	n/a
Juneau*	n/a	---	n/a
Total of 3 Communities		---	

* No data to indicate emissions

Coke Oven Emission Sources Expected* in Alaska

* No data to indicate emissions

Potential Occupational Exposure to Coke Oven Emissions

coke ovens/steel mills	aluminum production	graphite production
electrical industry	construction industry	

Coke Oven Emission Inventory* Improvements

* No data to indicate emissions

Coke Oven Emission Health Effects

No information is available on the effects of coke oven emissions from short-term exposure in humans. Long term exposure to coke oven emissions results in inflammation of the inner eyelid and skin, and lesions in the lung and stomach.

Cancer ranking: The EPA classifies coke oven emissions as a Group A carcinogen for lung cancer. Group A carcinogens are considered known human carcinogens, like cigarette smoke. The EPA estimates there is a 0.00062 (approximately 3 in 5000) increase in lifetime risk of cancer for every one $\mu\text{g}/\text{m}^3$ of continuous coke oven emissions exposure over a lifetime.