

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 9B

This table lists the maximum allowable emission rates and all sources of air contaminants on the applicant's property covered by this permit. The emission rates shown are those derived from information submitted as part of the application for permit and are the maximum rates allowed for these facilities, sources, and related activities. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
BGC002	Acid Fume Scrubber	Cl <sub>2</sub>	0.01	0.01
BGC009	HCl Storage Tank	HCl	0.15	0.01
T7541	HCl Storage Tanks	HCl	0.15	0.13
BGC040	EVS Scrubber	Cl <sub>2</sub>	0.28	0.05
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
BGC098	Neutralizer System Vent	Cl <sub>2</sub>	0.44	0.41
		H <sub>2</sub> SO <sub>4</sub>	<0.01	<0.01
FBGC01	Chlorine Process Fugitives (5)	Cl <sub>2</sub>	0.65	2.87
		HCl	0.10	0.42
FBGC02	Cell Room Process Fugitives (5)	Cl <sub>2</sub>	<0.01	<0.01
BOILER	Boiler	VOC	1.35	4.96
		NO <sub>x</sub>	3.75	13.80
		NO <sub>x</sub> (MSS)	3.75	
		CO	10.83	39.85
		CO (MSS)	10.83	
		PM	1.86	6.85
		PM <sub>10</sub>	1.86	6.85
		PM <sub>2.5</sub>	0.39	1.45
		SO <sub>2</sub>	0.14	0.50
		NH <sub>3</sub>	1.32	4.84
F-7016A/B	HCl Synthesis Unit (F-7016A/B)	HCl	0.02	0.08

Emission Sources - Maximum Allowable Emission Rates

		Cl <sub>2</sub>	<0.01	0.02
		CO	4.77	20.90
BGC045	Decarbonization Stripper System	PM	0.17	0.76
		PM <sub>10</sub>	0.17	0.76
		PM <sub>2.5</sub>	0.17	0.76
FBGC046	Ammonia Fugitives (5)	NH <sub>3</sub>	0.14	0.60
BGU012	Utilities Cooling Tower	PM	3.00	9.21
		PM <sub>10</sub>	2.10	6.45
		PM <sub>2.5</sub>	1.26	3.87

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source name. For fugitive sources, use area name or fugitive source name.
- (3)
  - Cl<sub>2</sub> - chlorine
  - HCl - hydrogen chloride
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
  - PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - CO - carbon monoxide
  - H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
  - NH<sub>3</sub> - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: March 28, 2024