

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 165848

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)
EP3-1	Exhaust Gas Vent System, Thermal Oxidizer 1, and Thermal Oxidizer 2	VOC	0.16	0.14
		NO <sub>x</sub>	0.03	0.13
		CO	0.04	0.18
		PM	<0.01	0.02
		PM <sub>10</sub>	<0.01	0.02
		PM <sub>2.5</sub>	<0.01	0.02
		HF	<0.01	0.03
		HCl	0.02	0.09
		F <sub>2</sub>	<0.01	<0.01
		Br <sub>2</sub>	<0.01	<0.01
		HBr	<0.01	<0.01
		Exempt organic compounds	1.05	4.40
EP3-2	Washing Reactor 1	VOC	0.73	0.20
EP3-3	Washing Reactor 2	VOC	0.98	0.27
EP3-4	Water Reservoir	VOC	< 0.01	0.02
FUG3-1	Building 3 Fugitives (5)	VOC	1.75	7.67
		HF	0.13	0.56
		F <sub>2</sub>	0.10	0.45
		Br <sub>2</sub>	0.14	0.60
		H <sub>2</sub>	0.06	0.26
		Exempt organic compounds	1.65	7.21
FUG3-2	Reduction Reactor 1 Fugitives (5)	VOC	0.03	0.13
		HCl	0.01	0.03

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FUG3-3	Reduction Reactor 2 Fugitives (5)	VOC	0.03	0.13
		HCl	0.01	0.02
		Exempt organic compounds	0.06	0.26
FUG3-4	Reduction Reactor 3 Fugitives (5)	VOC	0.06	0.25
		HCl	0.01	0.01
		Exempt organic compounds	0.10	0.42
FUG3-5	Solvent Strip Column 3 Fugitives (5)	VOC	< 0.01	< 0.01
		Exempt organic compounds	0.01	0.04

- (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) VOC
- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - CO - carbon monoxide
  - HF - hydrogen fluoride
  - HCl - hydrogen chloride
  - F<sub>2</sub> - Fluorine
  - Br<sub>2</sub> - Bromine
  - HBr - hydrogen bromide
  - H<sub>2</sub> - hydrogen
  - Exempt organic compounds - Those carbon compounds or mixtures of carbon compounds which have been excluded from the definition of volatile organic compound.
- (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: TBD