

# Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 165103 and PSDTX1596

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)
TO_PROCESS	Process Thermal Oxidizer	VOC	9.55	41.66
		NO <sub>x</sub>	16.51	72.28
		CO	20.63	22.89
		PM	2.50	10.91
		PM <sub>10</sub>	2.50	10.91
		PM <sub>2.5</sub>	2.50	10.91
		SO <sub>2</sub>	1.80	7.87
		NH <sub>3</sub>	2.51	5.55
FLR	Plant Flare System	VOC	44.51	55.63
		NO <sub>x</sub>	33.64	42.05
		CO	173.26	216.58
		SO <sub>2</sub>	6.62	8.28
TK_LOAD1	Truck Loading Rack 1 (loading fugitives)	VOC	0.43	0.10
RL_LOAD1	Rail Loading Rack (loading fugitives)	VOC	0.01	0.01
TK_VCU	Tank Farm and Loading Flare	VOC	15.54	0.64
		NO <sub>x</sub>	5.20	0.89
		CO	6.50	1.11
		SO <sub>2</sub>	0.37	0.19
		PM	0.65	0.12
		PM <sub>10</sub>	0.65	0.12
		PM <sub>2.5</sub>	0.65	0.12
S-0120	Tank S-0120	VOC	15.57	0.09
S-0150	Tank S-0150	IOC-U	0.01	0.01
S-0160	Tank S-0160	H <sub>2</sub> SO <sub>4</sub>	0.01	0.01

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CTW	Cooling Tower	VOC	50.41	22.08
		PM	3.01	13.16
		PM <sub>10</sub>	0.47	2.02
		PM <sub>2.5</sub>	0.01	0.02
EGEN1	Emergency Generator 1	VOC	35.28	1.77
		NO <sub>x</sub>	35.28	1.77
		CO	19.30	0.97
		SO <sub>2</sub>	0.04	0.01
		PM	1.11	0.06
		PM <sub>10</sub>	1.11	0.06
		PM <sub>2.5</sub>	1.11	0.06
FUG	Equipment Leak Fugitives	VOC	1.55	6.76
		NH <sub>3</sub>	0.05	0.19
MSS1	Maintenance, Startup, Shutdown Activities	VOC	4.02	0.08
		H <sub>2</sub> SO <sub>4</sub>	0.02	0.01
		PM	0.37	0.01
		PM <sub>10</sub>	0.18	0.01
		PM <sub>2.5</sub>	0.03	0.01

- (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
- IOC-U - inorganic compounds (unspeciated)
- 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.

Emission Sources - Maximum Allowable Emission Rates

Date: December 16, 2021

## Emission Sources - Maximum Allowable Emission Rates

Permit Number GHGPSDTX208

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates
			TPY (4)
TO_PROCESS	Process Thermal Oxidizer	CO <sub>2</sub> e	189,265.07
FLR	Plant Flare System	CO <sub>2</sub> e	92,031.98

- (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) CO<sub>2</sub>e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):  
CO<sub>2</sub> (1), N<sub>2</sub>O (298), CH<sub>4</sub>(25), SF<sub>6</sub> (22,800), HFC (various), PFC (various)
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.
- (5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

Date: December 16, 2021