

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 124775

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)
T-1	Storage Tank No. 1 (175 Kbbbl IFR heated)	VOC	8.21	
		H <sub>2</sub> S	<0.01	
T-2	Storage Tank No. 2 (175 Kbbbl IFR heated)	VOC	8.21	
		H <sub>2</sub> S	<0.01	
T-1 & T-2	Storage Tank Nos. 1 & 2 Annual Emissions	VOC		9.74
		H <sub>2</sub> S		<0.01
T-3	Storage Tank No. 3 (175 Kbbbl IFR)	VOC	2.13	
		H <sub>2</sub> S	<0.01	
T-4	Storage Tank No. 4 (175 Kbbbl IFR)	VOC	2.13	
		H <sub>2</sub> S	<0.01	
T-5	Storage Tank No. 5 (175 Kbbbl IFR)	VOC	2.13	
		H <sub>2</sub> S	<0.01	
T-6	Storage Tank No. 6 (175 Kbbbl IFR)	VOC	2.13	
		H <sub>2</sub> S	<0.01	
T-7	Storage Tank No. 7 (100 Kbbbl IFR)	VOC	2.58	
		H <sub>2</sub> S	<0.01	
T-8	Storage Tank No. 8 (100 Kbbbl IFR)	VOC	2.58	
		H <sub>2</sub> S	<0.01	
T-3 through T-8	Storage Tank No. 3 – 8 Annual Emissions	VOC		12.52
		H <sub>2</sub> S		<0.01
VCU-1	Vapor Combustion Unit No. 1 Loading Operations and MSS	NO <sub>x</sub>	25.07	
		CO	16.71	
		VOC	8.35	
		SO <sub>2</sub>	8.35	

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		PM	1.25	
		PM <sub>10</sub>	1.25	
		PM <sub>2.5</sub>	1.25	
		H <sub>2</sub> S	<0.01	
	Vapor Combustion Unit No. 1 Natural Gas Pilot Lighting	NO <sub>x</sub>	0.76	0.05
		CO	1.28	0.09
		VOC	0.08	0.01
		SO <sub>2</sub>	0.01	<0.01
		PM	0.12	0.01
		PM <sub>10</sub>	0.12	0.01
		PM <sub>2.5</sub>	0.12	0.01
VCU-2	Vapor Combustion Unit No. 2 Loading Operations and MSS	NO <sub>x</sub>	25.07	
		CO	16.71	
		VOC	8.35	
		SO <sub>2</sub>	8.35	
		PM	1.25	
		PM <sub>10</sub>	1.25	
		PM <sub>2.5</sub>	1.25	
		H <sub>2</sub> S	0.04	
	Vapor Combustion Unit No. 2 Natural Gas Pilot Lighting	NO <sub>x</sub>	0.76	0.05
		CO	1.28	0.09
		VOC	0.08	0.01
		SO <sub>2</sub>	0.01	<0.01
		PM	0.12	0.01
		PM <sub>10</sub>	0.12	0.01
		PM <sub>2.5</sub>	0.12	0.01
VCU-3	Vapor Combustion Unit No. 3 Loading Operations and MSS	NO <sub>x</sub>	25.07	
		CO	16.71	
		VOC	8.35	
		SO <sub>2</sub>	8.35	
		PM	1.25	
		PM <sub>10</sub>	1.25	

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	Vapor Combustion Unit No. 3 Natural Gas Pilot Lighting	H <sub>2</sub> S	<0.01	
		NO <sub>x</sub>	1.27	0.05
		CO	2.13	0.09
		VOC	0.14	0.01
		SO <sub>2</sub>	0.02	<0.01
		PM	0.19	0.01
		PM <sub>10</sub>	0.19	0.01
		PM <sub>2.5</sub>	0.19	0.01
VCU-4	Vapor Combustion Unit No. 4 Loading Operations and MSS	NO <sub>x</sub>	25.07	
		CO	16.71	
		VOC	8.35	
		SO <sub>2</sub>	8.35	
		PM	1.25	
		PM <sub>10</sub>	1.25	
		PM <sub>2.5</sub>	1.25	
		H <sub>2</sub> S	0.04	
	Vapor Combustion Unit No. 4 Natural Gas Pilot Lighting	NO <sub>x</sub>	1.27	0.05
		CO	2.13	0.09
		VOC	0.14	0.01
		SO <sub>2</sub>	0.02	<0.01
		PM	0.19	0.01
		PM <sub>10</sub>	0.19	0.01
		PM <sub>2.5</sub>	0.19	0.01
VCU-1 thru VCU-4	Vapor Combustion Units Nos. 1 thru 4 Loading Operations Annual Emissions	NO <sub>x</sub>		53.62
		CO		35.75
		VOC		17.87
		SO <sub>2</sub>		17.87
		PM		2.66
		PM <sub>10</sub>		2.66
		PM <sub>2.5</sub>		2.66
		H <sub>2</sub> S		0.01

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	Emissions	CO	3.21	0.13
		SO <sub>2</sub>	1.60	0.07
		PM	0.24	<0.01
		PM <sub>10</sub>	0.24	<0.01
		PM <sub>2.5</sub>	0.24	<0.01
		H <sub>2</sub> S	<0.01	<0.01
FUG-1	Marine and Railcar Loading Equipment Fugitives (5)	VOC	3.57	15.66
		H <sub>2</sub> S	<0.01	0.01
FUG-2	Railcar Unloading Equipment Fugitives (5)	VOC	1.05	4.61
		H <sub>2</sub> S	<0.01	<0.01
FUG-3	Tank Equipment Fugitives (5)	VOC	0.24	1.06
		H <sub>2</sub> S	<0.01	<0.01
WWTL-1	Wastewater Truck Loading No. 1	VOC	0.87	0.40
		H <sub>2</sub> S	<0.01	<0.01
WWTL-2	Wastewater Truck Loading No. 2	VOC	0.51	0.39
		H <sub>2</sub> S	<0.01	<0.01
UNC-MSS	Uncontrolled MSS	VOC	20.18	1.13
		H <sub>2</sub> S	0.01	<0.01
VT-1	Vacuum Truck Loading	VOC	0.26	0.02
		H <sub>2</sub> S	<0.01	<0.01
HAPCAP	Hazardous Air Pollutant CAP (6)	Individual HAP		<10.0
		Total HAPs		<25.0

- (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
  - 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
  - HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

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- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Combined annual hazardous air pollutant (HAP) emission rates for all EPNs authorized by this permit shall not exceed the Hazardous Air Pollutant Emission Caps EPN: HAPCAP.

Date: August 24, 2021