

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 8865

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)
BAY - 1 through 9, 11, 12, 14, 18, and 19	Tanks	VOC	615.48	15.53
BAYS - 10, 13	Bays 10 and 13 Storage Tanks	VOC	407.33	3.77
WHARF 1 and 2	Ship Loading	VOC	252.96	-
BARGE 1 through 3	Barge Loading	VOC	189.75	-
WHARF 1 and 2 & BARGE 1 through 3	Ship and Barge Loading	VOC	-	7.38
TRL 1, 2, 2a, 3 through 9, 10, 11, 14, 18, and 19	Tank Truck Loading	VOC	102.87	0.43
RCL A, AB, BC, CD, EF, and GH	Rail Car Loading	VOC	102.87	1.73
SB-3	Boiler No. 3	VOC	0.07	0.23
		NOX	1.46	4.98
		CO	0.52	1.78
		SO <sub>2</sub>	0.18	0.62
		PM	0.09	0.32
		PM <sub>10</sub>	0.09	0.32
		PM <sub>2.5</sub>	0.09	0.32
SB-4	Steam Boiler No. 4	VOC	0.15	0.66
		NOx	1.32	5.79
		CO	2.65	11.59
		SO <sub>2</sub>	0.54	2.37
		PM	0.04	0.17
		PM <sub>10</sub>	0.04	0.17
		PM <sub>2.5</sub>	0.04	0.17
FL-1	Operating Flare	VOC	311.69	12.87
		NOx	110.30	6.30

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		CO	121.99	26.97
		SO <sub>2</sub>	2.57	4.38
		ETO	0.10	0.01
		HCl/HBr	20.00	6.00
FL-2 (6)	Breathing Flare	VOC	96.47	2.61
		NO <sub>x</sub>	22.39	2.62
		CO	44.75	9.55
		SO <sub>2</sub>	1.00	4.38
		HCl/HBr	20.00	6.00
FL-3/FL-4 (6)	Propylene/Acetaldehyde Flare	VOC	89.41	5.68
		NO <sub>x</sub>	16.76	1.16
		CO	33.46	2.31
		SO <sub>2</sub>	0.51	0.01
TO-1	Thermal Oxidizer	VOC	3.00	1.70
		NO <sub>x</sub>	105.00	61.82
		CO	30.00	17.00
		SO <sub>2</sub>	20.00	24.00
		PM	3.00	1.70
		PM <sub>10</sub>	3.00	1.70
		PM <sub>2.5</sub>	3.00	1.70
		HCl/Br	20.00	24.90
FU-1	Equipment Leak Fugitives	VOC	3.56	12.85
FU-2	Line Clearing Fugitives	VOC	4.48	0.18
FU-3	Hose Clearing Fugitives	VOC	0.35	0.22
FU-4	Bays-10,13 Fugitives	VOC	0.62	2.72
Bay 17	Class II Tanks 17-94, 17-95, 17-96, 17-97, and 17-98	VOC	332.00	3.92
T-1	Transfer	Freon 113	367.94	7.50
T-3	Transfer	Freon 11	3.04	0.57

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AB-1	Purge Gas Absorbers/Adsorbers	VOC	0.01	0.01
AB-2	Transfer Absorbers/Adsorbers	VOC	21.17	0.53

- (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
  - ETO - ethylene oxide
  - HCl - hydrogen chloride
  - HBr - hydrogen bromide
  - 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.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) This flare includes a segregated chemicals ring.

Date: October 22, 2020