

Emission Sources - Maximum Allowable Emission Rates

Permit Number 19784

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)
88-97-102A	Dock 3 CEB A (6)	VOC	1.14	--
		NO _x	2.46	--
		CO	3.38	--
		PM	0.31	--
		PM ₁₀	0.31	--
		PM _{2.5}	0.31	--
		SO ₂	0.02	--
88-97-102B	Dock 3 CEB B (6)	VOC	1.14	--
		NO _x	2.46	--
		CO	3.38	--
		PM	0.31	--
		PM ₁₀	0.31	--
		PM _{2.5}	0.31	--
		SO ₂	0.02	--
88-97-102C	Dock 3 CEB C (6)	VOC	1.14	--
		NO _x	2.46	--
		CO	3.38	--
		PM	0.31	--
		PM ₁₀	0.31	--
		PM _{2.5}	0.31	--
		SO ₂	0.02	--
88-97-102D	Dock 3 CEB D (6)	VOC	1.14	--
		NO _x	2.46	--
		CO	3.38	--
		PM	0.31	--
		PM ₁₀	0.31	--
		PM _{2.5}	0.31	--
		SO ₂	0.02	--

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88-97-102A/B/C/D	Dock 3 CEB Hourly Cap (6)	VOC	3.41	--
		NO _x	7.38	--
		CO	10.13	--
		PM	0.92	--
		PM ₁₀	0.92	--
		PM _{2.5}	0.92	--
		SO ₂	0.07	--
88-61-2	Vapor Combustor Unit (Dock No. 4) (7)	VOC	2.94	--
		Benzene	1.29	--
		NO _x	5.06	--
		CO	10.11	--
	Annual VCU/CEB Caps	VOC	--	1.20
		Benzene	--	0.12
		NO _x	--	5.81
		CO	--	11.61
		PM	--	0.31
		PM ₁₀	--	0.31
		PM _{2.5}	--	0.31
		SO ₂	--	0.03
88-11-DOCK	Dock Loading Loss Cap	VOC	13.43	4.77
88-0-0	Piping Fugitives (5)	VOC	1.08	4.74
		Benzene	0.18	0.79
88-95-102	Aviation Gasoline Tank 102	VOC	4.05	
		Benzene	0.01	--
88-95-112	Aviation Gasoline Tank 112	VOC	3.57	--
		Benzene	0.01	--
	Combined Cap	VOC	--	20.74
		Benzene	--	0.01
88-95-103	Benzene Tank 103	Benzene	0.60	--
88-95-123	Benzene Tank 123	Benzene	1.88	--
	Combined Cap	Benzene	--	5.17
88-95-104	Cyclohexane Tank 104	VOC	1.84	--
88-95-106	Cyclohexane Tank 106	VOC	1.84	--
88-95-114	Cyclohexane Tank 114	VOC	0.90	--
	Combined Cap	VOC	--	10.53
88-95-105	Naphtha Tank 105	VOC	1.63	--
		Benzene	0.03	--
88-95-109	Naphtha Tank 109	VOC	1.51	--
		Benzene	0.03	--

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	Combined Cap	VOC	--	7.97
		Benzene	--	0.15
88-95-110	Kerosene Tank 110	VOC	6.68	0.55
		Benzene	0.13	0.01
88-95-113	Tank 113	VOC	5.81	15.80
		Benzene	0.10	0.28
88-95-115	Xylenes Tank 115	VOC	0.44	--
88-95-121	Xylenes Tank 121	VOC	0.48	--
	Combined Cap	VOC	--	0.76
88-95-119	Tank 119	VOC	1.57	5.13
		Benzene	0.01	0.02
88-95-130	Crude Oil Tank 130	VOC	4.75	--
		Benzene	0.02	--
88-95-131	Crude Oil Tank 131	VOC	4.75	--
		Benzene	0.02	--
88-95-132	Crude Oil Tank 132	VOC	5.67	--
		Benzene	0.02	--
	Combined Cap	VOC	--	12.39
		Benzene	--	0.04
88-95-136	BTX Tank No. 136	VOC	0.47	0.47
		Benzene	0.32	0.32
88-95-137	DAC Tank No. 137	VOC	0.65	1.28
		Benzene	0.32	0.63
88-62-002	Central Flare	VOC	3.50	0.04
		Benzene	0.01	0.01
		NO _x	3.45	0.04
		CO	6.89	0.09
TKLAND	Uncontrolled Tank Landings	VOC	130.58	3.02
TKTO	Controlled Tank Landings	VOC	10.52	0.45
		NO _x	6.01	0.20
		CO	8.25	0.27
		SO ₂	0.03	0.01
		H ₂ S	0.01	0.01
		PM	2.71	0.23
		PM ₁₀	2.71	0.23
		PM _{2.5}	2.71	0.23
FRAC	Temporary Storage	VOC	0.08	0.01
VPIPE	Vessels & Piping MSS	VOC	10.12	0.03
VTRUCK	Vacuum Trucks	VOC	1.11	0.03

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- (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 _x	- total oxides of nitrogen
SO ₂	- sulfur dioxide
PM	- total particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5} , as represented
PM ₁₀	- total particulate matter equal to or less than 10 microns in diameter, including PM _{2.5} , as represented
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
- (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) Until installation of the new CEBs designated as EPN 88-97-102A/B/C/D. These emission rates represent the contribution of loading emissions for products authorized in this permit to this EPN 88-97-102A/B/C/D. EPN 88-97-102A/B/C/D is also authorized in Permit 116242 for C5+ loading emissions. Only three of the four Dock 3 CEB units may operate at any time.
- (7) EPN 88-61-2 serves Dock 4 until the Dock 3 CEBs and the piping that routes the Dock 4 loading losses to the vapor combustor designated as EPN 88-61-3 has been installed.

Date: April 4, 2017