

Emission Sources - Maximum Allowable Emission Rates

Permit Number 21933

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)
MMB-FUG	MMB Fugitives (5)	VOC	2.22	9.73
FI-03	Thermal Oxidizer	SO ₂	1.39	1.35
		NO _x	1.56	2.81
		CO	1.31	2.35
		VOC	0.58	0.68
		H ₂ S	0.01	0.01
		PM ₁₀	0.12	0.21
		PM _{2.5}	0.12	0.21
FL-MMB	Flare	VOC	10.59	3.16
		CO	13.03	7.53
		NO _x	5.70	3.76
		SO ₂	1.75	0.62
		H ₂ S	0.01	0.01
AM-7	Storage Tank	VOC	0.01	0.01
BBA-4	Hold Tank	PM ₁₀	0.02	0.01
		PM _{2.5}	0.02	0.01
MMB-PMFUG	Solids Handling (5)	PM	4.40	0.73
		PM ₁₀	0.89	0.15
		PM _{2.5}	0.10	0.02
MMB-SAMPLE	Product Sampling	VOC	0.61	0.01

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MMB-100	Cooling Tower Tote	VOC	0.17	0.01
MMB-300	Cooling Tower Tote	NaClO	0.02	0.01
MMB-565	Cooling Tower Tote	H ₂ SO ₄	0.01	0.01
FIL	Plate and Frame Filter No. 4 Fugitives	VOC	0.24	1.05
#1PF	Plate and Frame Filter No. 1 Fugitives	VOC	1.30	1.07
#3PF	Plate and Frame Filter No. 3 Fugitives	VOC	2.19	2.96
#10PF	Plate and Frame Filter No. 10 Fugitives	VOC	0.37	0.30
#11PF	Plate and Frame Filter No. 11 Fugitives	VOC	0.37	0.30
#13PF	Plate and Frame Filter No. 13 Fugitives	VOC	0.37	0.30
S-7	Scrubber	VOC	0.01	0.01
MSS-MMB	Maintenance Emissions	VOC	3.23	0.05
		HCl	0.01	0.01
		H ₂ SO ₄	0.01	0.01
		H ₂ S	0.01	0.01

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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
H ₂ S	- hydrogen sulfide
NaClO	- sodium hypochlorite
H ₂ SO ₄	- sulfuric acid
HCl	- hydrogen chloride
- (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: November 20, 2013