

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19109

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. 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 *	
			lb/hr	TPY**
Q1INC	Q1 Incinerator	VOC	3.35	6.75
		NO _x	8.67	18.51
		CO	19.70	42.06
		SO ₂	0.03	0.11
		PM	0.44	1.20
HSFLARE	Q1 Flare (5)	VOC	1.73	6.48
		NO _x	0.50	2.06
		CO	2.58	10.47
		SO ₂	0.01	0.06
	Q1 Flare Maintenance, Start-Up, 2.85 and Shutdown (5)	VOC		137.0
		NO _x	9.13	0.67
		CO	65.93	3.41
		SO ₂	0.01	
Q1CT	Cooling Tower	VOC	0.14	0.61
Q1FUG	Process Fugitives (4)	VOC	9.36	41.01
Q1F01324	Mixer Feed Hopper	VOC (6)	8.50	28.29
		PM	0.01	0.01
Q1F4901	Catalyst Feeder Filter	PM	0.10	0.01
Q1R4001	Reactor Seed	PM	0.77	0.01
Q1F01310C	Silo Filter	PM	0.26	0.05

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Q1D01309	Master Batch Filter	PM	0.26	0.05
Q1V01327A/B	Additive Filter	PM	0.09	0.06
Q1F01352	Rail Unload Filter	PM	0.10	0.10
Q1D01426	Pellet Dryer Vent	PM	0.39	1.73
Q1F01426	Transfer Air Filter	PM	1.03	4.51
Q1F15003	Scalperator Vent Fines Collectors 3.90		PM	1.11
Q1F15004	Scalperator Vent Fines Collectors 3.90		PM	1.11
Q1RAILA	Railcar Loading A	PM	0.23	0.79
Q1RAILB	Railcar Loading B	PM	0.23	0.79
HS1V1920	Rundown Silos Bagfilter Vent	PM	0.85	2.57
		PM ₁₀ 0.17	0.51	
HS1V1932	Blend Silos Bagfilter Vent	PM	1.15	3.49
		PM ₁₀ 0.23	0.70	
HS1V1934	Car Loading Bagfilter Vent	PM	0.85	2.57
		PM ₁₀ 0.17	0.51	
UTMTRFUG	Ethylene Meter/Mall Fugitives (4) 20.42		VOC	4.66
PF-TF-F	Polyfeed Storage Fugitives (4)	VOC	0.88	3.87
HS1FUG	Q1 Flare Header Fugitives (4)	VOC	0.16	0.72

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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
CO - carbon monoxide
PM - particulate matter, suspended in the atmosphere, including PM₁₀
PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
SO₂ - sulfur dioxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions attributable only to facilities authorized by Permit Number 19109.
- (6) VOC emissions shown at this point represent the total allowable VOC emission rates for all emission points in the process downstream of the extruder.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

____Hrs/day ____Days/week ____Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated _____