

# 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. **(3/08)**

## AIR CONTAMINANTS DATA

<u>Emission Rates *</u> Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission</u>	
			lb/hr	TPY**
Q1INC	Q1 Incinerator	VOC	3.35	6.75
		NO <sub>x</sub>	8.67	18.51
		CO	19.70	42.06
		SO <sub>2</sub>	0.03	0.11
		PM	0.44	1.20
HSFLARE	Q1 Flare (5) (7)	VOC	203.66	13.98
		NO <sub>x</sub>	30.46	3.72
		CO	155.22	19.62
		SO <sub>2</sub>	0.34	0.10
	Q1 Flare Maintenance, Start-Up, and Shutdown (5)	VOC	137.00	1.92
		NO <sub>x</sub>	9.13	0.45
		CO	65.20	2.30
		SO <sub>2</sub>	0.34	0.10
Q1CT	Cooling Tower	VOC	0.14	0.61
Q1FUG	Q1 Fugitives (4)	VOC	19.00	83.24
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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<u>Emission Rates *</u>	Source	Air Contaminant	<u>Emission</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY**</u>
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	PM	1.11	3.90
Q1F15004	Scalperator Vent Fines Collectors	PM	1.11	3.90
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 <sub>10</sub>	0.17	0.51
HS1V1932	Blend Silos Bagfilter Vent	PM	1.15	3.49
		PM <sub>10</sub>	0.23	0.70
HS1V1934	Car Loading Bagfilter Vent	PM	0.85	2.57
		PM <sub>10</sub>	0.17	0.51
HSFLARE_SYS	Q1 Flare Analyzer Vent	VOC	0.01	0.01
		NO <sub>x</sub>	0.01	0.01
		CO	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<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
PM<sub>10</sub> - 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.  
SO<sub>2</sub> - 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.
- (7) Routine/normal operation emission authorized to vent to the Q1 Incinerator (EPN Q1INC) are allowed to be routed to the Q1 Flare (EPN HSFLARE) for no more than 150 hours per year.  
**(1/08)**

\* 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 April 8, 2008