

Emission Sources - Maximum Allowable Emission Rates

Permit Number 22110

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)
130T-F1201	PTBC Tank	PTBC	<0.01	<0.01
130T-D203A	PTBC Storage (500 gal)	PTBC	<0.01	<0.01
130T-D203B	PTBC Storage (500 gal)	PTBC	<0.01	<0.01
130T-D301	PTBC Storage (500 gal)	PTBC	<0.01	<0.01
130T-F622	Acetonitrile Tank	Acetonitrile	9.33	0.20
130F	Isoprene Unit 821 Process Fugitives (5)	VOC	29.35	128.55
130FL-Q501	Utilities Flare	VOC	60.93	60.54
		NO _x	3.94	3.94
		CO	17.96	17.95
		SO ₂	0.02	0.02
116F-4	Refrigeration Compressor	VOC	0.48	2.14
		Isobutane	0.24	1.07
		Propane	0.24	1.07
116CT-821	Cooling Tower	VOC	0.67	2.94
		PM	1.48	6.49
		PM ₁₀	0.12	0.54
		PM _{2.5}	<0.01	<0.01
116CT-MAIN	Cooling Tower	VOC	1.78	7.80
		PM	3.93	17.19
		PM ₁₀	0.33	1.42
		PM _{2.5}	<0.01	<0.01
130WF	Isoprene Unit 821 Wastewater Fugitives	VOC	3.30	7.08

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330F	Natsyn Unit 829 Process Fugitives (5)	VOC	23.92	104.75
		TiCl ₄	0.05	0.23
		HCl	<0.01	<0.01
829TO-Q600	Natsyn Unit 829 RTO Emissions	VOC	5.30	23.23
		NO _x	0.51	2.24
		CO	0.42	1.85
		PM	0.04	0.17
		PM ₁₀	0.04	0.17
		PM _{2.5}	0.04	0.17
		SO ₂	<0.01	0.01
336F	Finishing Building Fugitives (Normal Operation) (5)	VOC Total	18.92	93.76
		VOC-U	1.79	
	Finishing Building Fugitives (MSS) (5)	VOC-U	4.63	
330WF	Natsyn Wastewater	VOC	1.76	7.72
330T-F116	F116 Oil Storage Tank	VOC	0.12	<0.01
330T-F117	F117 TIPA Tank	VOC	<0.01	<0.01
4H-203	Combined F201/F207 Vent	VOC	17.44	0.65
330T-F118	F118 Catalyst Tank	HCl	1.22	0.02

- (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)
 - PTBC - p - Tert Butylcatechol
 - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 - VOC-U - volatile organic compounds (unspeciated)
 - NO_x - total oxides of nitrogen
 - SO₂ - sulfur dioxide
 - PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 - PM₁₀ - 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
 - HCl - hydrogen chloride
 - TiCl₄ - titanium tetrachloride
- (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: December 11, 2017