

Emission Sources - Maximum Allowable Emission Rates

Permit Number 47029

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)
TCS-A1	Scrubber CL-1401	VOC	0.02	0.01
CL-1402	Scrubber CL-1402	VOC	0.05	0.03
		HCl	<0.01	<0.01
		NH ₃	<0.01	<0.01
TCS-A3	Scrubber CL-1403	Acrylonitrile (AN)	<0.01	<0.01
		VOC	<0.01	<0.01
		HCl	<0.01	<0.01
TCS-A5	Scrubber CL-1405	HCl	0.10	0.01
KBE/ABC-A	Scrubber CL-1001	AN	0.03	<0.01
		EtOH	1.57	0.07
		MeOH	0.33	0.02
		PO	0.31	0.01
		NH ₃	0.33	0.03
		VOC (6)	3.21	0.16
ABC-A4	Scrubber CL-3202	EtOH	0.18	0.09
		MeOH	0.10	0.04
		HCl	0.03	0.03
		PO	0.13	0.06
		VOC	0.44	0.19
		NH ₃	0.02	0.01
ABC-A6	Baghouses	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
BOILER-A1	Boiler UN-7001	NO _x	0.46	2.01

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		CO	0.92	4.02
		PM	0.01	0.06
		PM ₁₀	0.01	0.06
		PM _{2.5}	0.01	0.06
		VOC	0.05	0.23
		SO ₂	0.19	0.82
CF-FUG	Silane Plant Fugitives (5)	VOC (6)	2.04	5.07
		AN	0.01	0.05
		EtOH	0.22	0.84
		PO	0.02	0.06
		PO-HCl	<0.01	<0.01
		NH ₃	0.12	0.25
		HCl	0.22	0.86
		MeOH	0.38	1.19
		NaCl	<0.01	<0.01
		Na ₂ S	<0.01	<0.01
		H ₂ S	0.03	0.13
ULOADFUG	Loading/Unloading Fugitives	VOC (6)	2.32	0.68
		Acrylonitrile (AN)	0.05	<0.01
		Ammonia (NH ₃)	<0.01	<0.01
		HCl	0.43	<0.01
		H ₂ S	<0.01	<0.01
BE-1	Refrigeration Unit BE-1	VOC	0.20	<0.01
CTOWER	Cooling Tower CT-6561A/B	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		VOC	0.01	0.01
F3-1	Scrubber CL-2501	VOC	0.17	0.20
F3-FUG	F3 Unit Fugitives (5)	VOC	0.17	0.75

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		HCl	<0.01	0.03
ABC-A7	Scrubber CL-4101	EtOH	<0.01	<0.01
		MeOH	<0.01	<0.01
		VOC	<0.01	<0.01
DRUMLOAD	Uncontrolled Drum/Tote Loading	VOC	18.22	1.11

- (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
 - 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
 - AN - acrylonitrile
 - EtOH - ethanol
 - MeOH - methyl alcohol
 - PO - propylene oxide
 - PO-HCl - propylene oxide-hydrochloric acid complex
 - NH₃ - ammonia
 - H₂S - hydrogen sulfide
 - Na₂S - sodium sulfide
- (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) The VOC emissions include all speciated VOC emissions.

Date: January 24, 2022