

Emission Sources - Maximum Allowable Emission Rates

Permit Number 19797

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)
A	Main Flare	NOx	1.61	1.05
		CO	13.78	8.98
		VOC	1.41	3.63
		SO2	0.01	0.01
		MeCl2	0.01	0.01
		HCl	1.13	0.99
		Acetone	0.36	0.91
C	Acetylene Flare	NOx	1.15	0.58
		CO	9.82	5.01
		SO2	0.01	0.01
		Acetylene	0.73	0.30
		NH3	0.01	0.01
H	Scrubber	VOC	0.04	0.17
		HCl	0.09	0.03
P1	TPP Venturi Filter	PM/PM10	0.01	0.01
P2	Lindlar Catalyst Scrubber	PM/PM10	0.01	0.01
P4	Crystal wash Tower Scrubber	PM/PM10	0.01	0.01
P5	C10 Filter	PM/PM10	0.01	0.01
		MeCl2	0.01	0.01

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T-9111	Acetone Tank (6)	Acetone	37.77	0.78
TF1	MeCl2 Tank Adsorber	MeCl2	0.18	0.01
TF2	Toluene Tank	VOC	5.51	0.02
TF3	Potassium Hydroxide Tank	KOH	0.01	0.01
TF4	HCl Tank Scrubber	HCl	0.82	0.31
TF5	Acetic Acid Tank Scrubber	VOC	0.16	0.03
TF6	Beta Ionone Tank	VOC	0.01	0.01
TF7	Hexane Tank	VOC	18.49	0.09
TF8	Methanol Tank	VOC	8.74	0.35
TF9	Solvent Waste Tank	VOC	8.53	0.18
		MeCl2	16.31	0.95
		Acetone	17.38	0.37
TF10	Phosphorous Waste Tank	VOC	9.70	0.46
		MeCl2	18.22	0.45
		Acetone	8.67	0.42
TF13	Sodium Hydroxide Tank	NaOH	0.01	0.01
TF15	Sulfuric Acid Tank	H2SO4	0.01	0.01
FUG-BETA	Process Fugitives (5)	VOC	1.23	5.40
		MeCl2	0.36	1.56
		NH3	0.06	0.27
		Acetone	0.27	1.18
WWTP-01	Wastewater Treatment Plant	VOC	1.80	2.07
		MeCl2	0.55	2.21
		Acetone	0.03	0.02
B-1	Plant Boiler	NOx	1.30	5.71
		CO	1.33	5.84
		CO (MSS)	8.73	0.07
		VOC	0.17	0.73
		SO2	0.02	0.08

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		PM10	0.23	1.01
A-MSS	Vessel Degassing and Cleaning to Main Flare	NOx	1.76	1.05
		CO	15.09	8.98
		VOC	4.41	0.01
		SO2	0.01	0.01
		MeCl2	0.03	0.01
		HCl	1.13	0.99
		Acetone	9.13	0.01
T-9110-MSS	MeCl2 Tank Opening	MeCl2	2.60	0.01
T-9104-MSS	Potassium Hydroxide Tank Opening	KOH	0.01	0.01
T-9108-MSS	HCl Tank Opening	HCl	0.62	0.01
T-9103-MSS	Acetic Acid Tank Opening	VOC	0.09	0.01
T-9102-MSS	Methanol Tank Opening	VOC	0.22	0.01
T-9111-MSS	Acetone Tank Opening	Acetone	0.90	0.01
T-9106-MSS	Solvent Waste Tank Opening	VOC	0.52	0.01
		MeCl2	0.06	0.01
		Acetone	0.57	0.01
T-9105-MSS	Phosphorous Waste Tank Opening	VOC	0.72	0.01
		MeCl2	0.32	0.01
		Acetone	0.24	0.01
T-9101-MSS	Hexane Tank Opening	VOC	1.10	0.01
T-9100-MSS	Beta-Ionone Tank Opening	VOC	0.01	0.01
T-9107-MSS	Toluene Tank Opening	VOC	0.27	0.01
T-9112-MSS	Sulfuric Acid Tank Opening	H2SO4	0.01	0.01
T-9113-MSS	Sodium Hydroxide Tank Opening	NaOH	0.01	0.01
FUG-MSS	Fugitives from Tank	VOC	18.96	1.06

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	MeCl2	16.19	0.21
	NH3	0.49	0.03
	Acetone	27.74	0.21
	HCl	3.25	0.01
	Inorganics	0.01	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) 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
- H2SO4 - sulfuric acid
- HCl - hydrogen chloride
- KOH - potassium hydroxide
- MeCl2 - methylene chloride
- NaOH - sodium hydroxide
- NH3 - ammonia
- (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) This acetone storage tank operates under Permit by Rule Registration No. 86761. The authorized emission rates for the storage tank are shown here for informational purposes.

Date: _____