

# 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. 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**
A	Flare (5)	Acetone	0.36	0.91
		CO	8.69	5.66
		HCl	0.06	0.05
		NO <sub>x</sub>	1.70	1.11
		SO <sub>2</sub>	0.01	0.01
		VOC	6.29	4.30
	(6)	Acetone	0.36	0.91
		CO	13.78	8.98
		HCl	0.06	0.05
		NO <sub>x</sub>	1.61	1.05
		SO <sub>2</sub>	0.01	0.01
		VOC	6.29	4.30
C	Flare (5)	CO	6.19	3.16
		NO <sub>x</sub>	1.21	0.62
		SO <sub>2</sub>	0.01	0.01
		VOC	0.73	0.30
	(6)	CO	9.82	5.01
		NO <sub>x</sub>	1.15	0.58
		SO <sub>2</sub>	0.01	0.01
		VOC	0.73	0.30
H	Scrubber	HCl	0.09	0.03
		VOC	0.17	
P1	Filter	PM/PM <sub>10</sub>	0.01	0.01
P2	Scrubber	PM/PM <sub>10</sub>	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
P3	Filter	PM/PM <sub>10</sub>	0.01	0.01
P4	Scrubber	PM/PM <sub>10</sub>	0.01	0.01
P5	Filter	MeCl <sub>2</sub>	0.01	0.01
		PM/PM <sub>10</sub>	0.01	0.01
TF1	MeCl Tank Adsorber	MeCl <sub>2</sub>	0.71	0.05
TF2	Toluene Tank	VOC	3.38	0.01
TF3	Potassium Hydroxide Tank	KOH	0.01	0.01
TF4	HCl Tank Scrubber	HCl	0.64	0.28
TF5	Acetic Acid Tank Scrubber	VOC	0.12	0.02
TF6	Beta Ionone Tank	VOC	0.01	0.01
TF7	Hexane Tank	VOC	10.50	0.02
TF8	Methanol Tank	VOC	8.74	0.27
TF9	Storage Tank	Acetone	17.38	0.36
		MeCl <sub>2</sub> 3.23	0.07	
		VOC 8.53	0.17	
TF10	Storage Tank	Acetone	7.35	0.17
		MeCl <sub>2</sub> 18.22	0.42	
		VOC 9.70	0.21	
TF12	Acetone Tank Scrubber	Acetone	20.32	1.56
TF13	Sodium Hydroxide Tank	NaOH	0.01	0.01

TF15	Sulfuric Acid Tank	H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
WWTP-01	Wastewater Treatment Plant	Acetone	0.03	0.28
		MeCl <sub>2</sub> 0.55	3.12	
		VOC 1.80	5.82	
FUG-BETA	Process Fugitives (4)	Acetone	0.82	3.58
		MeCl <sub>2</sub> 1.01	4.42	
		NH <sub>3</sub>	0.06	0.27
		VOC 5.51	24.13	

- (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) CO - carbon monoxide  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid  
HCl - hydrogen chloride  
KOH - potassium hydroxide  
MeCl<sub>2</sub> - methylene chloride  
NaOH - sodium hydroxide  
NH<sub>3</sub> - ammonia  
NO<sub>x</sub> - total oxides of nitrogen  
PM - particulate matter  
PM<sub>10</sub> - particulate matter less than 10 microns in diameter  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Steam assist operation up to June 30, 2009.
- (6) Air assist operation beginning before or on June 30, 2009.

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

Hrs/day 24 Days/week 7 Weeks/year 52

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

2008

Dated January 17,