

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 22046

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)
13	Process Flare	NO <sub>x</sub>	3.95	4.51
		CO	20.36	23.20
		VOC	7.66	6.45
		SO <sub>2</sub>	2.78	11.49
		HCl	0.65	1.02
S-23	Water Spray Column	HCl	0.04	0.15
S-34	Spray Column	H <sub>2</sub> S	0.01	0.03
S-03	Spray Column Absorber	H <sub>2</sub> S	0.01	0.02
West P&F	Plate and Frame Filter	VOC	0.03	
P&F-3	Plate and Frame Filter	VOC	0.04	
West P&F/P&F-3	Plate and Frame Filter (6)	VOC		0.13
J-4 and J-5	Filter Feed Tanks	PM	0.05	0.03
156-FUG	Process Fugitives (5)	VOC	0.51	2.25
		HCl	0.08	0.34
		H <sub>2</sub> S	0.02	0.08
		Na <sub>2</sub> S	0.02	0.08
		S <sub>2</sub> Cl <sub>2</sub>	0.05	0.22
CT-13	Cooling Tower	VOC	0.01	0.01
S-27	Venturi Scrubber	VOC	34.44	4.63

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		PM	0.01	0.01
SS-29	Product Storage Tank	VOC	1.10	0.17
TL-T58	Truck Loading Fugitives (5)	VOC	0.29	0.01
T58-FUG	Process Fugitives (5)	VOC	0.78	3.43
		HCl	0.01	0.06
		S <sub>2</sub> Cl <sub>2</sub>	0.02	0.10
MSS-156OLF	Planned Maintenance	VOC	2.84	0.07

- (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  
 SO<sub>2</sub> - sulfur dioxide  
 PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
 PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
 PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
 CO - carbon monoxide  
 HCl - hydrogen chloride  
 Na<sub>2</sub>S - sodium sulfide  
 S<sub>2</sub>Cl<sub>2</sub> - sulfur chloride  
 H<sub>2</sub>S - hydrogen 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) Combined emissions of VOC in tons per year (TPY) from West P&F and P&F-3 (Plate and Frame Filters) is 0.13 tpy.

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