

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 17519

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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
H-08	HCU Fraction Heater			VOC	0.23	1.0
				NO <sub>x</sub>	2.29	10.0
				SO <sub>2</sub>	2.16	3.8
				PM <sub>10</sub>	0.57	2.5
				CO	1.61	7.0
H-42	HCU Recycle Heater			VOC	0.17	0.7
				NO <sub>x</sub>	1.70	7.4
				SO <sub>2</sub>	1.60	2.8
				PM <sub>10</sub>	0.43	1.9
				CO	1.19	5.2
H-43	HCU Reboiler Heater			VOC	0.23	1.0
				NO <sub>x</sub>	2.33	10.2
				SO <sub>2</sub>	2.20	3.9
				PM <sub>10</sub>	0.58	2.6
				CO	1.64	7.2
V-16	No. 2 SRU Incinerator			VOC	0.02	0.1
				NO <sub>x</sub>	0.67	2.9
				SO <sub>2</sub>	10.44	45.7
				PM <sub>10</sub>	0.06	0.3
				CO	0.16	0.7
H-13	Unifiner Charge Heater			VOC	0.1	0.4
				NO <sub>x</sub>	7.8	34.0
				SO <sub>2</sub>	0.9	4.0
				PM	0.2	1.1
				CO	0.7	3.0
F-48	HCU Fugitives			VOC	11.36	49.8

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		
			lb/hr	TPY	
F-49	No. 2 SRU Fugitive	VOC	0.33	1.4	
			H <sub>2</sub> S	0.1	0.45
F-55	No. 2 SWRU Fugitives	VOC	0.11	0.5	
		H <sub>2</sub> S	0.02	0.06	
		NH <sub>3</sub>	0.01	0.06	
FL-4	HCU Flare	EMERGENCY USE ONLY			
S-184	Sour Water Holding Tank	VOC	1.3	3.5	

- (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)
  - PM - particulate matter
  - PM<sub>10</sub> - particulate matter less than 10 microns in diameter
  - VOC - volatile organic compounds as defined in General Rule 101.1
  - NO<sub>x</sub> - total oxides of nitrogen
  - SO<sub>2</sub> - sulfur dioxide
  - CO - carbon monoxide
  - NH<sub>3</sub> - ammonia
  - H<sub>2</sub>S - hydrogen sulfide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- \* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day\_\_\_\_Days/week\_\_\_\_Weeks/year\_\_\_\_or Hrs/year 8,760

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY

Dated \_\_\_\_\_