

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 74398

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)
B-3	Boiler 3	NO <sub>x</sub>	1.42	6.23
		CO	1.46	6.40
		SO <sub>2</sub>	0.02	0.10
		VOC	0.21	0.93
		PM	0.29	1.29
		PM <sub>10</sub>	0.29	1.29
		PM <sub>2.5</sub>	0.29	1.29
B-4	Boiler 4	NO <sub>x</sub>	1.42	6.23
		CO	1.46	6.40
		SO <sub>2</sub>	0.02	0.10
		VOC	0.21	0.93
		PM	0.29	1.29
		PM <sub>10</sub>	0.29	1.29
		PM <sub>2.5</sub>	0.29	1.29
H-2	Heater 2	NO <sub>x</sub>	2.45	10.74
		CO	2.06	9.02
		SO <sub>2</sub>	0.01	0.06
		VOC	0.13	0.59
		PM	0.19	0.82
		PM <sub>10</sub>	0.19	0.82
		PM <sub>2.5</sub>	0.19	0.82

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			lbs/hour	TPY (4)
H-3	Heater 3	NO <sub>x</sub>	0.24	1.05
		CO	1.65	7.22
		SO <sub>2</sub>	0.01	0.05
		VOC	0.11	0.47
		PM	0.15	0.65
		PM <sub>10</sub>	0.15	0.65
		PM <sub>2.5</sub>	0.15	0.65
H-4	Heater 4	NO <sub>x</sub>	0.24	1.05
		CO	1.65	7.22
		SO <sub>2</sub>	0.01	0.05
		VOC	0.11	0.47
		PM	0.15	0.65
		PM <sub>10</sub>	0.15	0.65
		PM <sub>2.5</sub>	0.15	0.65
FLR-1	Flare	NO <sub>x</sub>	67.47	17.27
		CO	61.11	11.79
		SO <sub>2</sub>	0.01	0.02
		VOC	191.57	15.27
		IOC-U	0.11	0.01
		HCl	0.78	0.69
		H <sub>2</sub> SO <sub>4</sub>	0.11	0.01
T-100	Tanks T-100 (uncontrolled)	VOC	23.48	-
		IOC-U	0.04	-
		H <sub>2</sub> SO <sub>4</sub>	0.01	-
T-200	Tanks T-200 (uncontrolled)	VOC	33.94	-
		IOC-U	0.04	-
		H <sub>2</sub> SO <sub>4</sub>	0.01	-

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
T-300	Tanks T-300 (uncontrolled)	VOC	37.89	-
		IOC-U	0.04	-
		H <sub>2</sub> SO <sub>4</sub>	0.01	-
T-400	Tanks T-400 (uncontrolled)	VOC	33.60	-
		IOC-U	0.04	-
		H <sub>2</sub> SO <sub>4</sub>	0.01	-
T-500	Tanks T-500 (uncontrolled)	VOC	37.16	-
		IOC-U	0.04	-
		H <sub>2</sub> SO <sub>4</sub>	0.01	-
T-600	Tanks T-600 (uncontrolled)	VOC	5.32	-
		IOC-U	0.04	-
		H <sub>2</sub> SO <sub>4</sub>	0.01	-
T-700	Tanks T-700 (uncontrolled)	VOC	5.36	-
		IOC-U	0.04	-
		H <sub>2</sub> SO <sub>4</sub>	0.01	-
T-1000	Tanks T-1000 (uncontrolled)	VOC	37.28	-
		IOC-U	0.04	-
		H <sub>2</sub> SO <sub>4</sub>	0.01	-
Tanks Cap (uncontrolled)		VOC	-	21.35
		IOC-U	-	0.17
		H <sub>2</sub> SO <sub>4</sub>	-	0.01
TT-W	West Tank Truck Loading (uncontrolled)	VOC	3.50	-
		IOC-U	0.02	-
		H <sub>2</sub> SO <sub>4</sub>	< 0.01	-
TT-E	East Tank Truck Loading (uncontrolled)	VOC	3.50	-
		IOC-U	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	< 0.01	-

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
TT-399	North Tank Truck Loading (uncontrolled)	VOC	3.50	-
		IOC-U	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	< 0.01	-
TT-600	600 Area Tank Truck Loading (uncontrolled)	VOC	3.50	-
		IOC-U	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	< 0.01	-
TT-610	610 Area Tank Truck Loading (uncontrolled)	VOC	3.50	-
		IOC-U	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	< 0.01	-
TT-700	700 Area Tank Truck Loading (uncontrolled)	VOC	3.50	-
		IOC-U	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	< 0.01	-
TT-STAIN	Stainless Area Tank Truck Loading (uncontrolled)	VOC	3.50	-
		IOC-U	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	< 0.01	-
TT-1000	1000 Area Tank Truck Loading (uncontrolled)	VOC	3.50	-
		IOC-U	0.01	-
		H <sub>2</sub> SO <sub>4</sub>	< 0.01	-
RC-1	Rail Car Loading (uncontrolled)	VOC	5.29	-
		IOC-U	0.02	-
		H <sub>2</sub> SO <sub>4</sub>	< 0.01	-
TTRCLOAD	Truck/Rail Loading Cap (uncontrolled)	VOC	-	9.11
		IOC-U	-	0.07
		H <sub>2</sub> SO <sub>4</sub>	-	< 0.01
BRG-1	Barge Loading (uncontrolled)	VOC	31.41	13.66
		IOC-U	0.05	0.25
		H <sub>2</sub> SO <sub>4</sub>	< 0.01	< 0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
CT-1	Cooling Water System	PM (7)	1.08	4.74
		PM <sub>10</sub> (7)	1.08	4.74
		PM <sub>2.5</sub> (7)	1.08	4.74
		PM	0.11	0.47
		PM <sub>10</sub>	0.11	0.47
		PM <sub>2.5</sub>	0.11	0.47
		VOC (5)	0.39	1.70
F-1	Fugitives (5)	VOC	1.99	8.71
		IOC-U	0.45	1.95
MSS-PMP	Pump Maintenance / Repair	VOC	0.02	< 0.01
		IOC-U	0.01	< 0.01
MSS-FLTR	Filter Change	VOC	0.02	< 0.01
		IOC-U	< 0.01	< 0.01
MSS-CD	Controlled Tank Degassing	VOC	9.58	2.54
		IOC-U	0.08	0.01
		NOX (6)	0.04	0.08
		CO (6)	0.14	0.24
		SO <sub>2</sub> (6)	< 0.01	< 0.01
		PM (6)	< 0.01	0.01
		PM <sub>10</sub> (6)	< 0.01	0.01
		PM <sub>2.5</sub> (6)	< 0.01	0.01
MSS-TNK	Uncontrolled Tank Degassing	VOC	56.56	0.86
		IOC-U	0.71	0.01
		H <sub>2</sub> SO <sub>4</sub>	0.03	< 0.01
All Emission Points	Site Wide	Individual HAP	-	< 10.00
		Total HAPs	-	< 25.00

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

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- (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  
IOC-U - inorganic compounds (unspeciated)  
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  
H<sub>2</sub>SO<sub>4</sub> - Sulfuric acid  
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (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) Products of combustion for portable internal combustion engines. Two engines may be used for MSS at one time.
- (7) These emission rates are authorized for the cooling tower drift eliminators rated at 0.01 drift or less which shall be replaced with drift eliminators rated at 0.001 drift or less by June 1, 2021.

Date: September 13, 2021