

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 21083

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)
1A	Vent Stack	VOC	1.71	3.01
		Cresol-U	0.04	0.02
2	Hot Oil Heater No. 1	VOC	0.08	0.35
		NO <sub>x</sub>	1.47	6.43
		CO	1.23	5.40
		PM	0.11	0.49
		PM <sub>10</sub>	0.11	0.49
		PM <sub>2.5</sub>	0.11	0.49
		SO <sub>2</sub>	0.04	0.17
3A	Steam Boiler	VOC	0.05	0.20
		NO <sub>x</sub>	0.82	3.60
		CO	0.69	3.03
		PM	0.06	0.30
		PM <sub>10</sub>	0.06	0.30
		PM <sub>2.5</sub>	0.06	0.30
		SO <sub>2</sub>	0.02	0.10
4	Fugitives (5)	VOC	1.45	6.35
		Cresol-U	0.13	0.56

Emission Sources - Maximum Allowable Emission Rates

5	Hot Oil Heater No. 2	VOC	0.06	0.28
		NO <sub>x</sub>	1.18	5.17
		CO	0.99	4.34
		PM	0.09	0.39
		PM <sub>10</sub>	0.09	0.39
		PM <sub>2.5</sub>	0.09	0.39
		SO <sub>2</sub>	0.03	0.14
LOAD	Purifying Unit / Pentene Column Load	VOC	0.60	0.07
PUFUG	Purifying Unit / Pentene Column Fugitives	VOC	0.05	0.24
HOTOILMSS	Hot Oil Heater 1 and 2 MSS	VOC	0.01	0.01
CASMSS	Carbon Canisters MSS Stack	VOC	0.05	0.06
		Cresol-U	0.02	0.01
VACTRKMSS	Vacuum Truck Loading Tank Degas	VOC	1.41	0.01
		Cresol-U	0.13	0.01
MOLEMSS	Mole Sieve Change Out	PM	0.01	0.01
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
FUGMSS	MSS Fugitives from Maintenance Operations	VOC	1.11	0.10
		Cresol-U	0.24	0.02
LUBEMSS	Degreasing/Lubrication Maintenance	VOC	4.68	0.09

- (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, including Cresol-U.
- 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

Emission Sources - Maximum Allowable Emission Rates

- 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
- Cresol-U - Cresylic acid (CAS No. 1319-77-3), individual isomers or mixture thereof.

(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.

Date: January 13, 2014