

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 27131

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)
LU-1	Flare (5)	VOC	4.16	0.52
		NO <sub>x</sub>	1.76	1.36
		SO <sub>2</sub>	0.01	0.01
		CO	3.95	11.60
		NH <sub>3</sub>	1.88	0.01
LU-2	Fugitives (6)	VOC	2.71	11.86
		NH <sub>3</sub>	0.01	0.01
LU-3	t-BHP Tank	VOC	0.08	0.003
LU-VS	Batch Vents	VOC	0.77	0.70
		NH <sub>3</sub>	0.40	0.36
Maintenance, Startup, and Shutdown (MSS)				
LSMISC MSS	Fugitive Component and Piping MSS	VOC	5.50	0.13
		NH <sub>3</sub>	0.07	0.01
LU3_MSSTK	Tank MSS	VOC	0.40	0.001
LU_MSSPH	Pump and Heat Exchanger MSS	VOC	2.60	0.04
LU_DEGAS	Equipment Degassing	VOC	1.93	0.07
		NH <sub>3</sub>	0.16	0.01
LUMSS_Pnt	Lone Star Surface Coating	VOC	13.16	0.23
		PM	1.74	0.04
		PM <sub>10</sub>	1.74	0.04

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		PM <sub>2.5</sub>	1.74	0.04
		Exempt Solvent	0.36	0.001
LUMSS_Dgrs	Lone Star Degreaser	VOC	0.07	0.01
LUMSS_VacT	Vacuum Trucks	VOC	0.24	0.002

- (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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.
  - 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
  - NH<sub>3</sub> - ammonia
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Includes MSS emissions.
- (6) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

Date: November 29, 2016