

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 154884

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)
49MN1621ST	Thermal Oxidizer	VOC	0.13	0.29
		NOx	8.24	11.42
		CO	22.28	18.62
		SO <sub>2</sub>	0.43	0.29
		PM	1.02	1.42
		PM <sub>10</sub>	1.02	1.42
		PM <sub>2.5</sub>	1.02	1.42
		Iodine (I <sub>2</sub> )	7.87	9.99
		Hydrogen Iodide	7.94	10.06
52FLR5300ST	Acid Expansion Project Flare	VOC	17.33	5.43
		NOx	8.15	2.25
		CO	249.50	69.94
		SO <sub>2</sub>	0.13	0.20
		Iodine (I <sub>2</sub> )	7.91	3.11
		Hydrogen Iodide	7.98	3.13
		Methyl Acetate	<0.01	0.09
52T5310ST	Acid Expansion Project Tank Farm Scrubber	VOC	3.23	1.23
52MT22	Acid Expansion Project Cooling Tower	VOC	2.73	11.96
		PM	0.81	3.56
		PM <sub>10</sub>	0.45	1.99
		PM <sub>2.5</sub>	<0.01	0.01
52HACFUG	Acid Expansion Project Fugitives (5)	VOC	0.32	1.39
		CO	0.06	0.26
		Methyl Acetate	0.03	0.13

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52ANALFUG	Acid Expansion Project Analyzers	VOC	<0.01	<0.01
		CO	<0.01	<0.01
52MSS	Acid Expansion Project MSS	VOC	34.57	0.39
		Methyl Acetate	1.81	0.04

- (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
- 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.

Date: June 19, 2019