

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 21832

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)
011ES3	F-1 Furnace Stack	CO	0.30	1.33
		NO <sub>x</sub>	0.36	1.58
		PM <sub>10</sub>	0.03	0.12
		PM <sub>2.5</sub>	0.03	0.12
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.09
011ES4	F-2 Furnace Stack	CO	0.15	0.66
		NO <sub>x</sub>	0.18	0.79
		PM <sub>10</sub>	0.01	0.06
		PM <sub>2.5</sub>	0.01	0.06
		SO <sub>2</sub>	0.01	0.01
		VOC	0.01	0.04
011ES5	F-3 Furnace Stack	CO	0.76	3.31
		NO <sub>x</sub>	0.90	3.94
		PM <sub>10</sub>	0.07	0.30
		PM <sub>2.5</sub>	0.07	0.30
		SO <sub>2</sub>	0.01	0.03
		VOC	0.05	0.22
011FL1	Flare	Acetone	0.08	0.35
		CO	4.42	19.37
		NO <sub>x</sub>	0.94	4.11
		SO <sub>2</sub>	0.01	0.02
		VOC	0.04	0.17

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011MNT1	Start up, Shutdown, and Maintenance Emissions	Acetone	80.69	4.43
		VOC	34.79	16.36
		NH <sub>3</sub>	0.96	0.76
011SB2	Scrubber Vent	Acetone	4.00	0.05
		VOC	2.00	1.31
011ST1	Tank Vent	VOC	3.72	0.04
011ST2	Tank Vent	Acetone	2.80	0.04
		VOC	8.99	0.12
011ST3	Tank Vent	Acetone	0.03	0.08
		VOC	2.56	0.15
011ST5	Tank Vent	Acetone	3.32	0.03
		VOC	2.55	0.13
011T22	Tank Vent	VOC	2.97	0.26
011T23	Tank Vent	VOC	2.97	0.25
011T24	Tank Vent	VOC	2.97	0.03
015LR1	Loading Spot	VOC	10.27	0.59
015LT76	Loading Spot	VOC	5.13	0.59
048T56	Tank Vent	VOC	1.30	0.02
048T59	Tank Vent	Acetone	1.37	0.06
		VOC	32.06	1.25
048T84	Tank Vent	VOC	0.31	0.02
048T205	Tank Vent	Acetone	12.90	4.11
048T206	Tank Vent	Acetone	12.90	4.11
049T200	Tank Vent	VOC	5.96	1.30
049T201	Tank Vent	VOC	5.96	1.30
093LR1	Loading Spot	VOC	8.51	0.51
093T10	Tank Vent	VOC	0.16	0.12
093T11	Tank Vent	VOC	2.85	0.88
098LD1	Loading Operations	VOC	1.56	0.16

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098LT90	Loading Spot	VOC	4.25	0.51
098T13	Tank Vent	VOC	0.18	0.08
F011FGW	Wastewater Emissions	VOC	0.62	2.76
		NH <sub>3</sub>	0.14	0.62
F011FG3	Process Fugitives (All Three Production Modes) (5)	Acetone	1.01	4.51
		NH <sub>3</sub>	0.10	0.44
		VOC	3.79	16.62

- (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<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) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: October 10, 2017