

# Emission Sources - Maximum Allowable Emission Rates

Permit Numbers 16963

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)
Line 2				
LAB	Lab	VOC	0.02	<0.01
POAPIPND	API Pond	NH <sub>3</sub>	0.06	0.27
		VOC	0.11	0.46
POLP2FL/PO002FL	Low-Pressure Flares	NH <sub>3</sub>	<0.01	0.04
		CO	4.45	19.00
		H <sub>2</sub> S	<0.01	<0.01
		NO <sub>x</sub>	0.52	2.24
		SO <sub>2</sub>	0.09	0.39
		VOC	1.48	3.82
PO001FL	High-Pressure Polyolefin Flare	NH <sub>3</sub>	0.06	0.04
		CO	20.99	32.30
		H <sub>2</sub> S	<0.01	<0.01
		NO <sub>x</sub>	10.50	16.18
		SO <sub>2</sub>	0.02	0.10
		VOC	50.87	32.04
PP12204TK	Tank No. 2204	VOC	4.76	0.02
PP2001FE	Process Fugitives (5)	NH <sub>3</sub>	<0.01	<0.01
		VOC	9.57	38.98
PP2001LR	Loading/Unloading – Truck, Rail and Drum	VOC	5.81	0.07
PP2003FE	Additive Transfer	PM	0.36	0.43
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
PP2F4902VN	Additive Transfer	PM	0.03	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01

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PP4026CT	Cooling Tower	VOC	0.76	1.58
		PM	1.35	5.92
		PM <sub>10</sub>	1.35	5.92
		PM <sub>2.5</sub>	1.35	5.92
MSSEAST				
MSS-AAA	Attachment A Activities (6)	VOC	4.34	0.28
MSS ABA	Attachment B Activities (6)	VOC	14.20	0.15
MSS-EO	Equipment/Vessel Opening	VOC	5.79	0.29
MSS-TO	Tank Opening	VOC	5.59	0.01
MSS-VL	Vacuum Truck Loading	VOC	0.16	<0.01
MSS-WW	Water Washing	VOC	3.42	0.01
MSS –BM	Bag Filter Maintenance	PM	2.06	0.03
		PM <sub>10</sub>	0.31	<0.01
		PM <sub>2.5</sub>	0.10	<0.01
Line 3				
PP3003FE	Additive Transfer	PM	0.36	0.43
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
PP3F4902VN	Additive Transfer	PM	0.03	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
BOILERST3	Low-Pressure Boiler	VOC	0.22	0.94
		NO <sub>x</sub>	1.36	5.94
		CO	1.44	6.30
		SO <sub>2</sub>	0.02	0.10
		PM	0.30	1.30
		PM <sub>10</sub>	0.30	1.30
		PM <sub>2.5</sub>	0.30	1.30
BOILERST4	High-Pressure Boiler	VOC	0.04	0.16

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		NO <sub>x</sub>	0.24	1.06
		CO	0.24	1.06
		SO <sub>2</sub>	<0.01	0.02
		PM	0.05	0.22
		PM <sub>10</sub>	0.05	0.22
		PM <sub>2.5</sub>	0.05	0.22
BOILERST5	High-Pressure Boiler	VOC	0.04	0.16
		NO <sub>x</sub>	0.24	1.06
		CO	0.24	1.06
		SO <sub>2</sub>	<0.01	0.02
		PM	0.05	0.22
		PM <sub>10</sub>	0.05	0.22
		PM <sub>2.5</sub>	0.05	0.22
LOADV1000	Light Ends Loading from V-1000	VOC	1.70	<0.01
PPHEXENETK	Hexene Storage Tank	VOC	0.20	0.36
PP3001FE	Process Fugitives (5)	VOC	4.82	21.10
FST Plant				
EYPRCSFL	Air Assist Flare	VOC	0.15	0.54
		CO	3.10	13.21
		H <sub>2</sub> S	<0.01	<0.01
		NO <sub>x</sub>	0.77	3.31
		SO <sub>2</sub>	0.09	0.46
EYPRCSFL	Depressure Vessels to Flare	VOC	77.67	1.87
		CO	36.84	0.88
		NO <sub>x</sub>	9.25	0.22
		SO <sub>2</sub>	0.42	0.01
UP011FE	Flare Area Fugitives (5)	VOC	0.78	3.34
BPITFE	Brine Pit Fugitives	VOC	1.10	3.70
EYSTOWELFE	Storage Well Fugitives (5)	VOC	0.03	0.15

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UTILFE	Utilities Area Fugitives (5)	VOC	2.60	11.31
LOADFUG	Transfer Operations Fugitives	VOC	63.88	30.90
MSSWEST	FST MSS Operations	VOC	6.95	0.16

- (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
  - NH<sub>3</sub>
    - ammonia
  - H<sub>2</sub>S
    - hydrogen sulfide
- (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) Represents activities on the East Plant of the site.

Date: March 29, 2019