

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 2101

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. 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 **	
			lb/hr	TPY*
B-D-O (4)	HB-2 Flare	Al <sub>2</sub> O <sub>3</sub>	0.22	<0.01
		NO <sub>x</sub>	0.28	1.22
		CO	1.48	6.47
		VOC	40.79	2.44
C-D-1	JF-1 Flare	MgO	0.96	0.19
		Al <sub>2</sub> O <sub>3</sub>	14.21	0.97
		NO <sub>x</sub>	0.62	2.70
		CO	3.92	17.15
		VOC	393.63	30.21
		HCl	584.41	11.94
		SO <sub>2</sub>	<0.01	<0.01
C-D-2	CHA Wet Flare	NO <sub>x</sub>	0.44	1.93
		CO	2.66	11.64
		SO <sub>2</sub>	<0.01	<0.01
		VOC	583.17	15.98
		HCl	2752.72	9.62
		PM <sub>10</sub>	<0.01	0.02
C-F-5A	H-201 Blow Egg	HCl	<0.01	<0.01
C-F-7	H-155D Hopper	PM	4.12	0.30
C-F-9	BEM MG Hopper	PM	0.01	<0.01
C-A-1I-K	PT Cleanout Spots	VOC	2.40	0.16
		Al <sub>2</sub> O <sub>3</sub>	0.24	<0.01
		HCl	0.12	<0.01

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			lb/hr	TPY
C-GZ-0	Area C Fugitives (5)	VOC	2.15	9.42
C-F-12	Sodium Storage	Na	<0.01	<0.01
C-F-13	Sodium Storage	Na	<0.01	<0.01
C-F-18	Sodium Unload Spot	Na	<0.01	<0.01
C-F-19	H-2012 Hopper	PM	<0.01	<0.01
C-F-20	B-2012 Blower	PM	<0.01	<0.01
C-F-24	DIP Drum	VOC	<0.01	<0.01
C-I-3	M-225 Drybox	PM	<0.01	<0.01
		HCl	<0.01	<0.01
		VOC	<0.01	<0.01
C-I-10	Blender Drybox	PM	<0.01	<0.01
		HCl	<0.01	<0.01
		VOC	<0.01	<0.01
C-I-12	JF-5 Drybox	PM	<0.01	<0.01
		HCl	<0.01	<0.01
		VOC	<0.01	<0.01
C-G-20B	Trailer Load Spot Drybox	PM	<0.01	<0.01
		HCl	<0.01	<0.01
		VOC	<0.01	<0.01
E-A-4	Blockhouse Drybox	PM	<0.01	<0.01
		HCl	<0.01	<0.01
		VOC	<0.01	<0.01
F-GZ-0	Area F Fugitives (5)	VOC	0.27	1.18

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			<u>lb/hr</u>	<u>TPY</u>

Sitewide HAPs

Total HAPs

25.00

Individual HAPs

10.00

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an 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 - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>  
 PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted  
 CO - carbon monoxide  
 HCl - hydrogen chloride  
 Al<sub>2</sub>O<sub>3</sub> - aluminum oxide  
 MgO - magnesium oxide
- (4) Flare permitted by BP on Permit Number 7278 and shared with Albemarle Corporation.
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* Compliance with annual emission limits is based on a rolling 12-month period.

\*\* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

\_\_\_\_\_ Hrs/day \_\_\_\_\_ Days/week \_\_\_\_\_ Weeks/year or 8,760 Hrs/year

Dated October 28, 2005