

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 22914

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**
LOAD-L	Pan Area (Liquids Loading)	VOC	5.39	2.05
		Acids	0.12	0.02
		CRA	0.02	0.01
LOAD-S	Vacuum Pump Discharge (Solids Loading)	PM <sub>10</sub>	0.67	0.47
SCRUBBER1	Fume Scrubber 1 (5)	HCl	0.22	0.04
		H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
		H <sub>3</sub> PO <sub>4</sub>	0.02	0.01
		FeCl <sub>2</sub>	0.01	0.01
		FeCl <sub>3</sub>	0.01	0.01
SCRUBBER2	Fume Scrubber 2 (5)	(see note)		
DIESL-TK1	Diesel Tank	VOC	0.01	0.01
BOILER1	Boiler	VOC	0.01	0.01
		NO <sub>x</sub>	0.29	0.05
		CO	0.07	0.01
		SO <sub>2</sub>	0.61	0.11
		PM <sub>10</sub>	0.01	0.01
Load E-1	Ethanol Loading 1	Ethanol	4.82	2.95
Load E-2	Ethanol Loading 2	Ethanol	4.82	2.95
Load E-3	Ethanol Loading 3	Ethanol	4.82	2.95
Load E-4	Ethanol Loading 4	Ethanol	4.82	2.95

Load E-5	Ethanol Loading 5	Ethanol	4.82	2.95
FUGITIVES	Piping Fugitives (4)	VOC	0.12	0.50
		HCl	0.01	0.01
		H <sub>3</sub> PO <sub>4</sub>	0.01	0.01
		H <sub>2</sub> SO <sub>4</sub>	0.01	0.01
		NaOH	0.01	0.01
		Corn Syrup	0.01	0.01
		Latex	0.01	0.01
		NaSi	0.01	0.01
		Beet Molasses	0.01	0.01
		Kaolin Liquid	0.01	0.01
		TiO <sub>2</sub>	0.01	0.01
		CO <sub>2</sub>	0.01	0.01

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- (2) Specific point source names. 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  
HCl - hydrogen chloride  
H<sub>3</sub>PO<sub>4</sub> - phosphoric acid (in aqueous solution)  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid (in aqueous solution)  
NaOH - sodium hydroxide (in aqueous solution)  
CRA - cresylic acid  
PM<sub>10</sub> - particulate matter (PM) 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.  
FeCl<sub>2</sub> - ferrous chloride  
FeCl<sub>3</sub> - ferric chloride  
NO<sub>x</sub> - nitrogen oxides  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide  
NaSi - sodium silicate (in aqueous solution)  
TiO<sub>2</sub> - titanium dioxide (in aqueous solution)  
CO<sub>2</sub> - carbon dioxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emissions limits shall be combined limits for both scrubbers.

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

Hrs/day\_\_\_\_\_ Days/week\_\_\_\_\_ Weeks/year\_\_\_\_\_ or Hrs/year 8760

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

Dated April 11, 2006