

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 93322

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 **
Biomass Boiler (Normal Operations)				
GBLR01	Biomass-Fired Boiler Exhaust Stack	NO <sub>x</sub>	54.0	--
		CO	54.0	--
		VOC	6.1	--
		PM	22.5	--
		PM <sub>10</sub>	22.5	--
		PM <sub>2.5</sub>	22.1	--
		SO <sub>2</sub>	7.9	--
		HCl	1.53	--
		H <sub>2</sub> SO <sub>4</sub>	0.2	--
		NH <sub>3</sub>	10.7	--
Biomass Boiler (Maintenance, Startup, and Shutdown)				
GBLR01	Biomass-Fired Boiler Exhaust Stack	NO <sub>x</sub>	54.0	--
		CO	96.8	--
		VOC	16.1	--
		PM	168.8	--
		PM <sub>10</sub>	168.8	--
		PM <sub>2.5</sub>	56.3	--
		SO <sub>2</sub>	5.6	--
		HCl	7.65	--
		H <sub>2</sub> SO <sub>4</sub>	0.4	--
		NH <sub>3</sub>	--	--

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
Biomass Boiler (Annual Limits)				
GBLR01	Biomass-Fired Boiler Exhaust Stack	NO <sub>x</sub>	--	236.5
		CO	--	237.6
		VOC	--	26.8
		PM	--	99.9
		PM <sub>10</sub>	--	99.9
		PM <sub>2.5</sub>	--	97.2
		SO <sub>2</sub>	--	34.5
		HCl	--	6.79
		H <sub>2</sub> SO <sub>4</sub>	--	0.34
		NH <sub>3</sub>	--	46.9
GMHFUG01	Biomass Conveying Fugitives	PM	0.09	0.1
		PM <sub>10</sub>	0.06	0.06
		PM <sub>2.5</sub>	0.02	0.02
GMHFUG02	Biomass Fuel Storage Pile 1 Fugitives	PM	0.12	0.5
		PM <sub>10</sub>	0.06	0.3
		PM <sub>2.5</sub>	0.009	0.04
GMH05	Truck Loading Fly Ash	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.15	0.04
GSCRN01	Hog Mill 1 and Scalper Screen 1 Enclosure Vent	PM	0.11	0.12
		PM <sub>10</sub>	0.05	0.06
		PM <sub>2.5</sub>	0.05	0.05
GSTV01	Steam Turbine Lubrication Vent 1	VOC	<0.1	0.1
		PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.0002	0.0007

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
GSTV02	Steam Turbine Lubrication Vent 2	VOC PM/PM <sub>10</sub> /PM <sub>2.5</sub>	<0.1 0.0002	0.1 0.0007
GTK02	Ammonia Storage Tank Vent	NH <sub>3</sub>	0.2	<0.1
GTK03	Silo Filter Trona	PM/PM <sub>10</sub>	0.09	0.005
		PM <sub>2.5</sub>	0.04	0.002
GTK04	Silo Filter Fly Ash	PM/PM <sub>10</sub> /PM <sub>2.5</sub>	0.0002	0.0006
GTU01	Truck Unloader 1 Fugitives	PM	0.003	0.003
		PM <sub>10</sub> /PM <sub>2.5</sub>	0.002	0.002
GTU02	Truck Unloader 2 Fugitives	PM	0.003	0.003
		PM <sub>10</sub> /PM <sub>2.5</sub>	0.002	0.002
Sitewide HAPs		Individual		<10
		HAPs		<25
		Total HAPs		

#### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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)
  - NO<sub>x</sub> - total oxides of nitrogen
  - CO - carbon monoxide
  - VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
  - PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>
  - PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter
  - PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
  - SO<sub>2</sub> - sulfur dioxide
  - HCl - hydrochloric acid
  - H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
  - NH<sub>3</sub> - ammonia
  - 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

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

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