

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 2351A

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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
4	Emergency Flare	CO	0.01	0.05
		NO <sub>x</sub>	0.01	0.02
		VOC	0.001	0.001
6	Amine Reboiler	CO	2.14	9.38
		NO <sub>x</sub>	2.55	11.16
		PM <sub>10</sub>	0.19	0.85
		SO <sub>2</sub>	0.02	0.07
		VOC	0.14	0.61
7	Acid Gas Flare	CO	0.60	2.63
		H <sub>2</sub> S	0.07	0.31
		NO <sub>x</sub>	0.21	0.91
		SO <sub>2</sub>	6.58	28.84
		VOC	0.04	0.16
9	Tail Gas Incinerator (5)(7)	CO	14.00	61.30
		H <sub>2</sub> S	7.64	29.07
		NO <sub>x</sub>	21.93	83.40
		PM <sub>10</sub>	0.78	3.43
		SO <sub>2</sub>	363.30	1381.50
		SO <sub>3</sub>	1.91	8.36
		VOC	0.83	3.64
10	Storage Tanks 2 and 3	NaOH	0.01	0.01
		VOC	0.01	0.01
11	Line Heater (6)	CO	0.12	0.54
		NO <sub>x</sub>	0.15	0.65

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

13	Caterpillar 3516	PM <sub>10</sub>	0.01	0.05
		SO <sub>2</sub>	0.001	0.001
		CO	4.78	20.96
		NO <sub>x</sub>	4.31	18.86
		VOC	2.79	12.20
		PM <sub>10</sub>	0.08	0.36
		SO <sub>2</sub>	0.01	0.02
14	Caterpillar 3516	CO	4.78	20.96
		NO <sub>x</sub>	4.31	18.86
		VOC (8)	2.21	9.66
		PM <sub>10</sub>	0.08	0.36
		SO <sub>2</sub>	0.01	0.02
15	Glycol Dehydrator Reboiler	CO	0.16	0.72
		NO <sub>x</sub>	0.20	0.88
		VOC	0.01	0.05
		PM <sub>10</sub>	0.02	0.11
		SO <sub>2</sub>	0.001	0.01
FUG	Fugitives (4)	H <sub>2</sub> S	1.37	6.01
		VOC	3.82	16.75
FUG2	1997 Project Fugitives (4)	VOC	0.11	0.47
FUG3	RLS Project Fugitives (4)	VOC	0.05	0.20
FUG4	MSD Facility Fugitives (4)	VOC	0.11	0.49

(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

SO<sub>3</sub> - sulfur trioxide

PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter

CO - carbon monoxide

NaOH - sodium hydroxide

H<sub>2</sub>S - hydrogen sulfide

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (4) Fugitive emissions rate is an estimate only and compliance is demonstrated by meeting the requirement of the applicable special conditions and permit application representations.
- (5) For emissions occurring when the SRU is not operating.
- (6) The heater shall be used six months per year.
- (7) SO<sub>3</sub> emissions are one half of one percent of SO<sub>2</sub> emissions.
- (8) Revisions have been made to this unit due to 40 Code of Federal Regulations Part 60, Subchapter JJJJ Emission Limit Requirements.

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

8,760 Hrs/year

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

Dated: March 3, 2011