

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 22088

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 **
BP	Brine Pit Losses	VOC	0.55	2.42
F-1	Degassing Flare No. 1	CO	0.29	1.29
		NO <sub>x</sub>	0.15	0.65
		SO <sub>2</sub>	0.01	0.01
		VOC	0.01	0.02
F-2	Degassing Flare No. 2	CO	0.29	1.29
		NO <sub>x</sub>	0.15	0.65
		SO <sub>2</sub>	0.01	0.01
		VOC	0.01	0.02
FLR-N	Truck Loading from Truck Disconnects via Flare N (5)	CO	0.25	0.45
		NO <sub>x</sub>	0.13	0.23
		SO <sub>2</sub>	0.01	0.01
		VOC	0.97	1.66
FLR-S	Truck Loading from Truck Disconnects via Flare S (5)	CO	0.25	0.45
		NO <sub>x</sub>	0.13	0.23
		SO <sub>2</sub>	0.01	0.01
		VOC	0.97	1.66
G-1	Area 3 Generator	CO	0.79	0.04
		NO <sub>x</sub>	3.66	0.18
		PM <sub>10</sub>	0.26	0.01
		SO <sub>2</sub>	0.24	0.01
		VOC	0.29	0.01
G-2	Area 4 Generator	CO	0.79	0.04
		NO <sub>x</sub>	3.66	0.18
		PM <sub>10</sub>	0.26	0.01
		SO <sub>2</sub>	0.24	0.01
		VOC	0.29	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
G-3	Area 8 Generator	CO	0.79	0.04
		NO <sub>x</sub>	3.66	0.18
		PM <sub>10</sub>	0.26	0.01
		SO <sub>2</sub>	0.24	0.01
		VOC	0.29	0.01
G-4	Office Generator	CO	1.44	0.07
		NO <sub>x</sub>	6.67	0.33
		PM <sub>10</sub>	0.47	0.02
		SO <sub>2</sub>	0.44	0.02
		VOC	0.53	0.03
G-5	Brine Generator	CO	2.04	0.10
		NO <sub>x</sub>	9.46	0.47
		PM <sub>10</sub>	0.67	0.03
		SO <sub>2</sub>	0.63	0.03
		VOC	0.75	0.04
FE-1	Firewater Engine	CO	4.13	0.21
		NO <sub>x</sub>	18.00	0.90
		PM <sub>10</sub>	0.53	0.03
		SO <sub>2</sub>	6.07	0.30
		VOC	0.53	0.03
H-1	Water Heater	CO	0.29	1.26
		NO <sub>x</sub>	0.34	1.50
		PM <sub>10</sub>	0.03	0.11
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.08
H-3	Water Heater	CO	0.29	1.26
		NO <sub>x</sub>	0.34	1.50
		PM <sub>10</sub>	0.03	0.11
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.08

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			lb/hr	TPY **
H-4	Water Heater	CO	0.29	1.26
		NO <sub>x</sub>	0.34	1.50
		PM <sub>10</sub>	0.03	0.11
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.08
H-5	N Ethylene Regen Heater	CO	0.28	1.23
		NO <sub>x</sub>	0.33	1.46
		PM <sub>10</sub>	0.03	0.11
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.08
H-7	N Propylene Regen Heater	CO	0.22	0.97
		NO <sub>x</sub>	0.26	1.16
		PM <sub>10</sub>	0.02	0.09
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.06
H-8	S Propylene Regen Heater	CO	0.12	0.54
		NO <sub>x</sub>	0.15	0.64
		PM <sub>10</sub>	0.01	0.05
		SO <sub>2</sub>	0.01	0.01
		VOC	0.01	0.04
H-9	Propane Regen Gas Heater	CO	0.40	1.75
		NO <sub>x</sub>	0.47	2.08
		PM <sub>10</sub>	0.04	0.16
		SO <sub>2</sub>	0.01	0.01
		VOC	0.03	0.11
H-10	S Ethylene Regen Heater	CO	0.33	1.44
		NO <sub>x</sub>	0.39	1.72
		PM <sub>10</sub>	0.03	0.13
		SO <sub>2</sub>	0.01	0.01
		VOC	0.02	0.09

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
WELL-GAS	Well Degassing	VOC	0.60	2.61
FUG-NW-A1	North Well Process Fugitives (4)	VOC	1.22	5.36
FUG-NW-A2	North Well Process Fugitives (4)	VOC	2.64	11.55
FUG-NW-B1	North Well Process Fugitives (4)	VOC	12.95	56.73
FUG-NW-B2	North Well Process Fugitives (4)	VOC	19.10	83.65
FUG-SW1	South Well Process Fugitives (4)	VOC	16.15	70.72
FUG-SW2	South Well Process Fugitives (4)	VOC	31.85	139.52
FUG-TERM1	Terminal Process Process Fugitives (4)	VOC	47.63	208.64
FUG-TERM2	Terminal Process Process Fugitives (4)	VOC	138.79	607.93
FUG-R-LOAD1	Rail Loading Process Fugitives (4)	VOC	5.83	25.44
FUG-R-LOAD2	Rail Loading Process Fugitives (4)	VOC	21.57	94.39

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			lb/hr	TPY **

#### EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (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) CO - carbon monoxide  
NO<sub>x</sub> - total oxides of nitrogen  
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.  
SO<sub>2</sub> - sulfur dioxide  
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The emission rates represent emissions associated with loading operations from this permitted unit. These emissions shall not occur simultaneously from these two flares. Each flare is owned and operated by the holder of this permit under TCEQ Air Account ID No. CI-0022-A.

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

Hrs/day 24 Days/week 7 Weeks/year 52

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

Dated February 2, 2005