

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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		Air Contaminant		<u>Emission Rates *</u>	
	Name (2)	Name (3)	lb/hr	TPY		
F-1	Degassing Flare			VOC	<0.01	0.02
				NOx	0.15	0.65
				CO	0.29	1.29
				SO2	<0.01	<0.01
A-1	Diesel Air Compressor			NOx	6.17	0.62
				CO	1.33	0.13
				VOC	0.49	0.05
				SO2	0.41	0.04
				PM10	0.44	0.04
G-1	Area 3 Generator			NOx	3.64	0.36
				CO	0.79	0.08
				VOC	0.29	0.03
				SO2	0.24	0.02
				PM10	0.26	0.03
G-2	Area 4 Generator			NOx	3.64	0.36
				CO	0.79	0.08
				VOC	0.29	0.03
				SO2	0.24	0.02
				PM10	0.26	0.03
G-3	Area 8 Generator			NOx	3.64	0.36
				CO	0.79	0.08
				VOC	0.29	0.03
				SO2	0.24	0.02
				PM10	0.26	0.03
G-4	Diesel Engine			NOx	1.85	0.19
				CO	0.40	0.04

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *		
			lb/hr	TPY	
			VOC	0.15	0.02
			SO2	0.12	0.01
			PM10	0.13	0.01
G-5	Brine Generator		NOx	9.41	0.94
			CO	2.04	0.20
			VOC	0.75	0.08
			SO2	0.63	0.06
			PM10	0.67	0.07
FE-1	Firewater Engine		NOx	10.79	0.54
			CO	2.34	0.12
			VOC	0.86	0.04
			SO2	0.72	0.04
			PM10	0.77	0.04
FE-2	Firewater Engine		NOx	18.17	0.91
			CO	2.31	0.12
			VOC	0.73	0.04
			SO2	<0.01	<0.01
H-1	Hot Water Heater		NOx	0.33	1.46
			CO	0.07	0.29
			VOC	0.02	0.08
			SO2	<0.01	0.01
			PM10	0.02	0.07
H-2	Hot Water Heater		NOx	0.33	1.46
			CO	0.07	0.29
			VOC	0.02	0.08
			SO2	<0.01	0.01
			PM10	0.02	0.07

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY
H-3	Hot Water Heater	NOx	0.33	1.46
		CO	0.07	0.29
		VOC	0.02	0.08
		SO2	<0.01	0.01
		PM10	0.02	0.07
H-4	Hot Water Heater	NOx	0.33	1.46
		CO	0.01	0.29
		VOC	0.02	0.08
		SO2	<0.01	0.01
		PM10	0.02	0.07
H-6	Ethylene Regen Heater	NOx	0.43	1.88
		CO	0.09	0.38
		VOC	0.02	0.10
		SO2	<0.01	0.01
		PM10	0.02	0.09
H-7	Ethylene Regen Heater	NOx	0.26	1.13
		CO	0.05	0.23
		VOC	0.02	0.06
		SO2	<0.01	<0.01
		PM10	0.02	0.06
H-8	Propylene Regen Heater	NOx	0.43	1.88
		CO	0.09	0.38
		VOC	0.02	0.10
		SO2	<0.01	0.01
		PM10	0.02	0.09

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			lb/hr	TPY
H-9	Regeneration Gas Heater	NOx	0.46	2.02
		CO	0.09	0.40
		VOC	0.02	0.11
		SO2	<0.01	0.01
		PM10	0.02	0.10
H-10	Regeneration Gas Heater	NOx	0.38	1.67
		CO	0.08	0.33
		VOC	0.02	0.08
		SO2	<0.01	0.01
		PM10	0.02	0.08
P-2	Butadiene Piping Fugitives (4)	VOC	0.31	1.31
P-13	Butadiene Piping Fugitives (4)	VOC	0.13	0.56
N-Well A	North Well Fugitives (4)	VOC	0.57	2.48
N-Well B	North Well Fugitives (4)	VOC	1.36	5.97
S-Well	South Well Fugitives (4)	VOC	1.11	4.86
Terminal	Terminal Fugitives (4)	VOC	67.01	281.98
R-Load	Rail Loading Fugitives (4)	VOC	25.54	35.86
BP	Brine Pit Fugitives (4)	VOC	0.55	2.42
FLAREC	Flare C (5)	NOx	0.13	0.23
		CO	0.25	0.45
		VOC	0.97	1.66

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
FLARED	Flare D (5)	NOx	0.13	0.23
		CO	0.25	0.45
		VOC	0.97	1.66

- (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) PM - particulate matter  
PM10 - particulate matter less than 10 microns  
VOC - volatile organic compounds as defined in General Rule 101.1  
NOx - total oxides of nitrogen  
SO2 - sulfur dioxide  
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) The emission rate represented reflects only the emissions associated with loading operations from this permitted unit. These emissions shall not occur simultaneously.

\* 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 8,760

Dated \_\_\_\_\_