

ATTACHMENT A-2

Permit No. 41618

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

ANNUAL EMISSIONS

This table lists the maximum allowable annual 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 annual 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> Tons per Year
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TERMINAL STORAGE TANKS, TANK FARM VENT FLARE, AND SCRUBBERS

STA 3.5-1 to STA 3.5-8, STA 6-3 to STA 6-5, STA 7.5-5 to STA 7.5-12, STA 12-5 to STA 12-13, STA 15-1 to STA 15-16, STA 20-1, STB 25-1, STB 30-1, STB 30-2, STB 30-4 to STB 30-8, STD 7-1 to STD 7-3, STD 7.5-13 to STD 7.5-15, STD 10-1 to STD 10-3, STD 15-17 to STD 15-28, STD 20-2, STD 20-3, STD 30-9, STD 30-10, STE 12-14 to STE 12-26, STF 6-1, STF 6-2, STF 7.5-1 to STF 7.5-4, STF 12-1 to STF 12-4, STP 15-29 to STP 15-35, STP 40-1 to STP 40-3, STP 50-1 to STP 50-5, STS 100-1 to 100-4, TVFL (Tank Farm Vent Flare), SCR-1 and SCR-2 (Caustic Scrubbers)	Storage Tanks	VOC	104.24
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AIR CONTAMINANTS DATA

Emission Point No. (1) Year	Name (2)	Source	Air Contaminant Name (3)	Emission Rates * Tons per
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TERMINAL RailCar, TANK TRUCK, AND ISO CONTAINER LOADING FACILITIES

R1, R2, T3, T4, T5, and T6	RailCar Loading/Unloading Racks R-1 and R-2, Tank Truck Loading/Unloading Racks T-3, T-4, T-5, and T-6	VOC	17.30
R3	Railcar Loading/Unloading Rack R-3	VOC	2.52

VESSEL CLEANING / INTERMODAL LOADING STATION

R4 and T7	RailCar, Tank Truck, and ISO Container Cleaning/Intermodal Loading Racks R-4 and T-7	VOC Non-VOC	1.49 0.04
WASH-1 and WASH-2	Cleaning Station Wash Water Storage Tank Nos. 1 and 2	VOC Non-VOC	0.06 0.05
CAS-1	Carbon Adsorption System (T-7 and R-4)	VOC Non-VOC	0.05 0.04

TERMINAL FLARES

TVFL	Tank Farm Vent Flare (T-6, R-2, and "D" Tank Farm)	CO NO _x	1.04 0.30
FL-1	McGill Loading Flare (R-1, R-3, T-3, and T-4)	CO NO _x VOC	0.55 0.27 1.84

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Emission Point No. (1) Year	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			Tons	per
MLFR	Marine Loading Flare (Ship Docks 2/3 and Barge Dock C)	CO	1.65	
		NO _x	0.83	
		VOC	5.61	
FL-4	RailCar, Tank Truck, and ISO Container Cleaning/Intermodal Loading Flare (R-4 and T-7)	CO	1.51	
		NO _x	0.76	
		Non-VOC	1.78	
		SO ₂	4.89	
		VOC	2.18	

TERMINAL BOILERS

BLR-1	Boiler BLR-1 (29 MM Btu/Hour)	CO	10.46	
		NO _x	12.45	
		PM	0.95	
		SO ₂	0.07	
		VOC	0.68	
BLR-2	Boiler BLR-2 (32.7 MM Btu/Hour) Cleaver-Brooks Model CB-LE	CO	21.48	
		NO _x	10.03	
		PM	1.43	
		SO ₂	0.14	
		VOC	2.29	

EQUIPMENT LEAK FUGITIVE EMISSIONS

FU	Piping Fugitive Emissions (4)	VOC	18.56	
		Non-VOC	0.80	

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- (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_x - total oxides of nitrogen
PM - particulate matter, suspended in the atmosphere, including PM₁₀.
SO₂ - sulfur dioxide
VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
- (4) Fugitive emissions are an estimate only and are not considered as a maximum allowable emission rate.

* Annual emissions are based on a 12 month rolling average. 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

Dated July 18, 2001