ATTACHMENT A-1

Permit No. 41618

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

This table lists the maximum allowable short-term 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 short-term 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.

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
A TANK FARM	•		
STA 3.5-1	Fixed-Roof Storage Tank A-3.5-1	VOC	54.00
STA 3.5-2	Fixed-Roof Storage Tank A-3.5-2	VOC	54.00
STA 3.5-3	Fixed-Roof Storage Tank A-3.5-3	VOC	54.00
STA 3.5-4	Fixed-Roof Storage Tank A-3.5-4	VOC	54.00
STA 3.5-5	Internal Floating Roof Storage Tank A-3.5	5-5 VOC	0.91
STA 3.5-6	Fixed-Roof Storage Tank A-3.5-6	VOC	54.00
STA 3.5-7	Fixed-Roof Storage Tank A-3.5-7	VOC	54.00
STA 3.5-8	Fixed-Roof Storage Tank A-3.5-8	VOC	54.00
STA 6-3	Fixed-Roof Storage Tank A-6-3	VOC	54.00
STA 6-4	Fixed-Roof Storage Tank A-6-4	VOC	54.00
STA 6-5	Fixed-Roof Storage Tank A-6-5	VOC	54.00
STA 7.5-5	Fixed-Roof Storage Tank A-7.5-5	VOC	54.00
STA 7.5-6	Fixed-Roof Storage Tank A-7.5-6	VOC	54.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source A Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STA 7.5-7	Fixed-Roof Storage Tank A-7.5-7	VOC	54.00
STA 7.5-8	Fixed-Roof Storage Tank A-7.5-8	VOC	54.00
STA 7.5-9	Fixed-Roof Storage Tank A-7.5-9	VOC	54.00
STA 7.5-10	Internal Floating Roof Storage Tank A-7.5-	10 VOC	0.98
STA 7.5-11	Fixed-Roof Storage Tank A-7.5-11	VOC	54.00
STA 7.5-12	Fixed-Roof Storage Tank A-7.5-12	VOC	54.00
STA 12-5	Fixed-Roof Storage Tank A-12-5	VOC	54.00
STA 12-6	Internal Floating Roof Storage Tank A-12-6	6 VOC	1.29
STA 12-7	Fixed-Roof Storage Tank A-12-7	VOC	54.00
STA 12-8	Fixed-Roof Storage Tank A-12-8	VOC	54.00
STA 12-9	Fixed-Roof Storage Tank A-12-9	VOC	54.00
STA 12-10	Fixed-Roof Storage Tank A-12-10	VOC	54.00
STA 12-11	Fixed-Roof Storage Tank A-12-11	VOC	54.00
STA 12-12	Internal Floating Roof Storage Tank A-12-3	12 VOC	1.29
STA 12-13	Fixed-Roof Storage Tank A-12-13	VOC	54.00
STA 15-1	Fixed-Roof Storage Tank A-15-1	VOC	54.00
STA 15-2	Fixed-Roof Storage Tank A-15-2	VOC	54.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source // Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STA 15-3	Fixed-Roof Storage Tank A-15-3	VOC	54.00
STA 15-4	Fixed-Roof Storage Tank A-15-4	VOC	54.00
STA 15-5	Fixed-Roof Storage Tank A-15-5	VOC	54.00
STA 15-6	Fixed-Roof Storage Tank A-15-6	VOC	54.00
STA 15-7	Fixed-Roof Storage Tank A-15-7	VOC	54.00
STA 15-8	Fixed-Roof Storage Tank A-15-8	VOC	54.00
STA 15-9	Internal Floating Roof Storage Tank A-15-	9 VOC	1.30
STA 15-10	Internal Floating Roof Storage Tank A-15-	10 VOC	1.30
STA 15-11	Fixed-Roof Storage Tank A-15-11	VOC	54.00
STA 15-12	Fixed-Roof Storage Tank A-15-12	VOC	54.00
STA 15-13	Fixed-Roof Storage Tank A-15-13	VOC	54.00
STA 15-14	Fixed-Roof Storage Tank A-15-14	VOC	54.00
STA 15-15	Fixed-Roof Storage Tank A-15-15	VOC	54.00
STA 15-16	Fixed-Roof Storage Tank A-15-16	VOC	54.00
STA 20-1	Fixed-Roof Storage Tank A-20-1	VOC	54.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
B TANK FARM	Name (2)	rvame (5)	1 danas per riodi
STB 25-1	Internal Floating Roof Storage Tank B-25	-1 VOC	1.62
STB 30-1	Fixed-Roof Storage Tank B-30-1	VOC	54.00
STB 30-2	Fixed-Roof Storage Tank B-30-2	VOC	54.00
STB 30-4	Fixed-Roof Storage Tank B-30-4	VOC	54.00
STB 30-5	Fixed-Roof Storage Tank B-30-5	VOC	54.00
STB 30-6	Internal Floating Roof Storage Tank B-30	-6 VOC	2.91
STB 30-7	Fixed-Roof Storage Tank B-30-7	VOC	54.00
STB 30-8	Fixed-Roof Storage Tank B-30-8	VOC	54.00
D TANK FARM			
STD 7-1	Low-Pressure Storage Tank D-7-1	Neopentyl Gl	ycol 0.94
STD 7-2	Low-Pressure Storage Tank D-7-2	Decane	2.33
STD 7-3	Low-Pressure Storage Tank D-7-3	Decane	2.33
STD 7.5-13	Low-Pressure Storage Tank D-7.5-13	VOC	5.97
STD 7.5-14	Low-Pressure Storage Tank D-7.5-14	VOC	5.97
STD 7.5-15	Low-Pressure Storage Tank D-7.5-15	VOC	5.97
STD 10-1	Low-Pressure Storage Tank D-10-1	VOC	6.00

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STD 10-2	Low-Pressure Storage Tank D-10-2	VOC	6.00
STD 10-3	Low-Pressure Storage Tank D-10-3	VOC	6.00
STD 15-17	Low-Pressure Storage Tank D-15-17	VOC	5.82
STD 15-18	Low-Pressure Storage Tank D-15-18	VOC	5.82
STD 15-19	Low-Pressure Storage Tank D-15-19	VOC	5.82
STD 15-20	Low-Pressure Storage Tank D-15-20	VOC	5.82
STD 15-21	Low-Pressure Storage Tank D-15-21	VOC	5.82
STD 15-22	Low-Pressure Storage Tank D-15-22	VOC	5.82
STD 15-23	Low-Pressure Storage Tank D-15-23	VOC	5.82
STD 15-24	Low-Pressure Storage Tank D-15-24	VOC	5.82
STD 15-25	Low-Pressure Storage Tank D-15-25	Lube Oil	< 0.01
STD 15-26	Low-Pressure Storage Tank D-15-26	Lube Oil	< 0.01
STD 15-27	Low-Pressure Storage Tank D-15-27	Lube Oil	< 0.01
STD 15-28	Low-Pressure Storage Tank D-15-28	Lube Oil	< 0.01
STD 20-2	Low-Pressure Storage Tank D-20-2	VOC	5.72
STD 20-3	Low-Pressure Storage Tank D-20-3	VOC	5.72
STD 30-9	Low-Pressure Storage Tank D-30-9	VOC	5.54

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STD 30-10	Low-Pressure Storage Tank D-30-10	VOC	5.54
E TANK FARM			
STE 12-14	Fixed-Roof Storage Tank E-12-14	VOC	54.00
STE 12-15	Fixed-Roof Storage Tank E-12-15	VOC	54.00
STE 12-16	Fixed-Roof Storage Tank E-12-16	VOC	54.00
STE 12-17	Fixed-Roof Storage Tank E-12-17	VOC	54.00
STE 12-18	Fixed-Roof Storage Tank E-12-18	VOC	54.00
STE 12-19	Fixed-Roof Storage Tank E-12-19	VOC	54.00
STE 12-20	Fixed-Roof Storage Tank E-12-20	VOC	54.00
STE 12-21	Fixed-Roof Storage Tank E-12-21	VOC	54.00
STE 12-22	Fixed-Roof Storage Tank E-12-22	VOC	54.00
STE 12-23	Fixed-Roof Storage Tank E-12-23	Cyclohexano	I 0.06
STE 12-24	Fixed-Roof Storage Tank E-12-24	Cyclohexano	I 0.06
STE 12-25	Fixed-Roof Storage Tank E-12-25	Cyclohexano	I 0.06
STE 12-26	Fixed-Roof Storage Tank E-12-26	Cyclohexano	I 0.06

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission Point No. (1)	Source A Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
F TANK FARM			
STF 6-1	Fixed-Roof Storage Tank F-6-1	VOC	54.00
STF 6-2	Fixed-Roof Storage Tank F-6-2	VOC	54.00
STF 7.5-1	Fixed-Roof Storage Tank F-7.5-1	VOC	54.00
STF 7.5-2	Fixed-Roof Storage Tank F-7.5-2	VOC	54.00
STF 7.5-3	Fixed-Roof Storage Tank F-7.5-3	VOC	54.00
STF 7.5-4	Fixed-Roof Storage Tank F-7.5-4	VOC	54.00
STF 12-1	Fixed-Roof Storage Tank F-12-1	VOC	54.00
STF 12-2	Fixed-Roof Storage Tank F-12-2	VOC	54.00
STF 12-3	Fixed-Roof Storage Tank F-12-3	VOC	54.00
STF 12-4	Fixed-Roof Storage Tank F-12-4	VOC	54.00
D TANK FADM			
P TANK FARM			
STP 15-29	Internal Floating Roof Storage Tank P-15-2	29 VOC	1.30
STP 15-30	Internal Floating Roof Storage Tank P-15-3	30 VOC	1.30
STP 15-31	Internal Floating Roof Storage Tank P-15-3	31 VOC	1.30
STP 15-32	Internal Floating Roof Storage Tank P-15-3	32 VOC	1.30
STP 15-33	Low-Pressure Storage Tank P-15-33	VOC	5.82

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission	Source	Air	Contaminant	Emission Rates *
Point No. (1)	Name (2)		Name (3)	Pounds per Hour
	• •		, , , , , , , , , , , , , , , , , , ,	
STP 15-34	Low-Pressure Storage Tank P-15-34		VOC	5.82
STP 15-35	Low-Pressure Storage Tank P-15-35		VOC	5.82
STP 40-1	Internal Floating Roof Storage Tank P-4	0-1	MTBE Methanol	0.14 0.01 0.01
			Cyclohexane	
	_		Ethanol	< 0.01
	t	Butyl	Acrylate	0.31
STP 40-2	Internal Floating Roof Storage Tank P-4	0-2	MTBE	0.14
			Methanol	0.01
			Cyclohexane	0.01
			Ethanol	< 0.01
	(Olefir	าร	0.67
STP 40-3	Fixed-Roof Storage Tank P-40-3		Lube Oil	0.05
	(C10+	Olefins	12.59
STP 50-1	Internal Floating Roof Storage Tank P-5	0-1	VOC	0.97
STP 50-2	Internal Floating Roof Storage Tank P-5	0-2	VOC	0.97
STP 50-3	Internal Floating Roof Storage Tank P-5	0-3	VOC Methylene Ch	0.97 nloride 1.06
STP 50-4	Internal Floating Roof Storage Tank P-5	0-4	VOC	0.97
STP 50-5	Internal Floating Roof Storage Tank P-5	0-5	VOC	0.76

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour	
WASH-1	Cleaning Station Wash Water Storage	Гапk No. 1 Non-VOC	VOC 0.79 0.63	
WASH-2	Cleaning Station Wash Water Storage	Γank No. 2 Non-VOC	VOC 0.79 0.63	
RAILCAR, TANK	TRUCK, AND ISO CONTAINER LOADIN	IG/CLEANING FAC	CILITIES	
R1	Rail Car Loading/Unloading Rack 1	VOC	17.97	
R2	Rail Car Loading/Unloading Rack 2	VOC	17.97	
R3	Rail Car Loading/Unloading Rack 3	VOC	0.61	
R4	Rail Car Cleaning/Loading/Unloading R	ack 4 VOC Non-VOC	36.18 0.13	
T3	Tank Truck Loading/Unloading Rack 3	VOC	17.97	
T4	Tank Truck Loading/Unloading Rack 4	VOC	17.97	
T5	Tank Truck Loading/Unloading Rack 5	Tallow	0.01	
T6	Tank Truck Loading/Unloading Rack 6	VOC	17.97	
Т7	Tank Truck and ISO Container Cleaning Loading/Unloading Rack 7	g/ VOC Non-VOC	34.73 0.13	
VESSEL CLEANING / INTERMODAL LOADING STATION CARBON ADSORPTION SYSTEM				
CAS-1	Carbon Adsorption System (T-7 and R-	4) VOC	0.10	

Non-VOC

0.06

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission	Source	Air	Contaminant	Emission Rates *
Point No. (1)	Name (2)		Name (3)	Pounds per Hour
EPICHLOROHYD	RIN CAUSTIC SCRUBBER SYSTEMS			
SCR-1	A Tank Farm Caustic Scrubber		Epichlorohyd	rin 1.79
SCR-2	Tank P50-2 Caustic Scrubber		Epichlorohyd	rin 0.01
TERMINAL FLAR	ES			
TVFL	Tank Farm Vent Flare (T-6, R-2, and "D" Tank Farm)		VOC NO _x CO	1.01 3.85 33.01
FL-1	McGill Loading Flare (R-1, R-3, T-3, and T-4)		VOC NO _x CO	10.57 2.75 5.50
MLFR	Marine Loading Flare (Ship Dock 2/3 and Barge Dock C)		VOC NO _X CO	46.26 6.88 13.75
FL-4		er SO ₂ Non-\	VOC NO _x CO 28.08 VOC	16.48 2.25 4.50 5.86

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air	Contaminant Name (3)	Emission Rates * Pounds per Hour
TERMINAL BOILE	RS			
BLR-1	Boiler BLR-1 (29 MM Btu/Hour)	NO _x CO PM SO ₂	VOC 2.84 2.39 0.22 0.02	0.16
BLR-2	Boiler BLR-2 (32.7 MM Btu/Hour) Cleaver-Brooks Model CB-LE	CO PM SO ₂	VOC NO _x 4.91 0.33 0.03	0.52 2.29
EQUIPMENT LEA	K FUGITIVE EMISSIONS			
FU	Piping Fugitive Emissions (4)	Non-	VOC VOC	4.13 0.18

- (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) VOC volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1

NO_X - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - particulate matter 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.

CO - carbon monoxide

MTBE - methyl-tertiary-butyl ether

- (4) Fugitive emissions are an estimate only and are not considered as a maximum allowable emission rate.
- * Emission rates are based on, and the facilities are limited by, the following maximum operating schedule:

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM EMISSIONS

Emission	Source		Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)		Name (3)	Pounds per Hour	_
Hrs/day	Days/week	Weeks/year	or Hrs/year <u>8,760</u>		
				Dated	t