

Permit Number 41618

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

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> Pounds per Hour
A TANK FARM			
STA 3.5-1	Storage Tank A-3.5-1	VOC	191.37
STA 3.5-2	Storage Tank A-3.5-2	VOC	191.37
STA 3.5-3	Storage Tank A-3.5-3	VOC	191.37
STA 3.5-4	Storage Tank A-3.5-4	VOC	191.37
STA 3.5-5	Storage Tank A-3.5-5	VOC	191.37
STA 3.5-6	Storage Tank A-3.5-6	VOC	191.37
STA 3.5-7	Storage Tank A-3.5-7	VOC	191.37
STA 3.5-8	Storage Tank A-3.5-8	VOC	191.37
STA 6-3	Storage Tank A-6-3	VOC	191.37
STA 6-4	Storage Tank A-6-4	VOC	191.37
STA 6-5	Storage Tank A-6-5	VOC	191.37
STA 7.5-5	Storage Tank A-7.5-5	VOC	191.37
STA 7.5-6	Storage Tank A-7.5-6	VOC	191.37

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STA 7.5-7	Storage Tank A-7.5-7	VOC	191.37
STA 7.5-8	Storage Tank A-7.5-8	VOC	191.37
STA 7.5-9	Storage Tank A-7.5-9	VOC	191.37
STA 7.5-10	Storage Tank A-7.5-10	VOC	191.37
STA 7.5-11	Storage Tank A-7.5-11	VOC	191.37
STA 7.5-12	Storage Tank A-7.5-12	VOC	191.37
STA 12-5	Storage Tank A-12-5	VOC	191.37
STA 12-6	Storage Tank A-12-6	VOC	191.37
STA 12-7	Storage Tank A-12-7	VOC	191.37
STA 12-8	Storage Tank A-12-8	VOC	191.37
STA 12-9	Storage Tank A-12-9	VOC	191.37
STA 12-10	Storage Tank A-12-10	VOC	191.37
STA 12-11	Storage Tank A-12-11	VOC	191.37
STA 12-12	Storage Tank A-12-12	VOC	191.37
STA 12-13	Storage Tank A-12-13	VOC	191.37
STA 15-1	Storage Tank A-15-1	VOC	191.37
STA 15-2	Storage Tank A-15-2	VOC	191.37

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STA 15-3	Storage Tank A-15-3	VOC	191.37
STA 15-4	Storage Tank A-15-4	VOC	191.37
STA 15-5	Storage Tank A-15-5	VOC	191.37
STA 15-6	Storage Tank A-15-6	VOC	191.37
STA 15-7	Storage Tank A-15-7	VOC	191.37
STA 15-8	Storage Tank A-15-8	VOC	191.37
STA 15-9	Storage Tank A-15-9	VOC	191.37
STA 15-10	Storage Tank A-15-10	VOC	191.37
STA 15-11	Storage Tank A-15-11	VOC	191.37
STA 15-12	Storage Tank A-15-12	VOC	191.37
STA 15-13	Storage Tank A-15-13	VOC	191.37
STA 15-14	Storage Tank A-15-14	VOC	191.37
STA 15-15	Storage Tank A-15-15	VOC	191.37
STA 15-16	Storage Tank A-15-16	VOC	191.37
STA 20-1	Storage Tank A-20-1	VOC	191.37
B TANK FARM			
STB 25-1	Storage Tank B-25-1	VOC	191.37
STB 30-1	Storage Tank B-30-1	VOC	191.37

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STB 30-2	Storage Tank B-30-2	VOC	191.37
STB 30-3	Storage Tank B-30-3	VOC	191.37
STB 30-4	Storage Tank B-30-4	VOC	191.37
STB 30-5	Storage Tank B-30-5	VOC	191.37
STB 30-6	Storage Tank B-30-6	VOC	191.37
STB 30-7	Storage Tank B-30-7	VOC	191.37
STB 30-8	Storage Tank B-30-8	VOC	191.37
STB 30-11	Storage Tank B-30-11	VOC	191.37
STB 30-12	Storage Tank B-30-12	VOC	191.37
D TANK FARM			
STD 7-1	Low-Pressure Storage Tank D-7-1SS	VOC	191.37
STD 7-2	Low-Pressure Storage Tank D-7-2SS	VOC	191.37
STD 7-3	Low-Pressure Storage Tank D-7-3SS	VOC	191.37
STD 7.5-13	Low-Pressure Storage Tank D-7.5-13	VOC	191.37
STD 7.5-14	Low-Pressure Storage Tank D-7.5-14	VOC	191.37

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STD 7.5-15	Low-Pressure Storage Tank D-7.5-15	VOC	191.37
STD 10-1	Low-Pressure Storage Tank D-10-1	VOC	191.37
STD 10-2	Low-Pressure Storage Tank D-10-2	VOC	191.37
STD 10-3	Low-Pressure Storage Tank D-10-3	VOC	191.37
STD 15-17	Low-Pressure Storage Tank D-15-17	VOC	191.37
STD 15-18	Low-Pressure Storage Tank D-15-18	VOC	191.37
STD 15-19	Low-Pressure Storage Tank D-15-19	VOC	191.37
STD 15-20	Low-Pressure Storage Tank D-15-20	VOC	191.37
STD 15-21	Low-Pressure Storage Tank D-15-21	VOC	191.37
STD 15-22	Low-Pressure Storage Tank D-15-22	VOC	191.37
STD 15-23	Low-Pressure Storage Tank D-15-23	VOC	191.37
STD 15-24	Low-Pressure Storage Tank	VOC	191.37
STD 15-25	Low-Pressure Storage Tank	VOC	191.37

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
	D-15-25SS		
STD 15-26	Low-Pressure Storage Tank D-15-26SS	VOC	191.37
STD 15-27	Low-Pressure Storage Tank D-15-27SS	VOC	191.37
STD 15-28	Low-Pressure Storage Tank D-15-28SS	VOC	191.37
STD 20-2	Low-Pressure Storage Tank D-20-2	VOC	191.37
STD 20-3	Low-Pressure Storage Tank D-20-3	VOC	191.37
STD 30-9	Low-Pressure Storage Tank D-30-9	VOC	191.37
STD 30-10	Low-Pressure Storage Tank D-30-10	VOC	191.37
E TANK FARM			
STE 12-14	Storage Tank E-12-14	VOC	191.37
STE 12-15	Storage Tank E-12-15	VOC	191.37
STE 12-16	Storage Tank E-12-16	VOC	191.37
STE 12-17	Storage Tank E-12-17	VOC	191.37
STE 12-18	Storage Tank E-12-18	VOC	191.37

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STE 12-19	Storage Tank E-12-19SS (4)	VOC	191.37
STE 12-20	Storage Tank E-12-20SS (4)	VOC	191.37
STE 12-21	Storage Tank E-12-21SS (4)	VOC	191.37
STE 12-22	Storage Tank E-12-22SS	VOC	191.37
STE 12-23	Storage Tank E-12-23	VOC	191.37
STE 12-24	Storage Tank E-12-24	VOC	191.37
STE 12-25	Storage Tank E-12-25	VOC	191.37
STE 12-26	Storage Tank E-12-26	VOC	191.37

F TANK FARM

STF 6-1	Storage Tank F-6-1	VOC (Animal Fats)	2.44
STF 6-2	Storage Tank F-6-2	VOC (Animal Fats)	2.44
STF 7.5-1	Storage Tank F-7.5-1	VOC (Animal Fats)	2.44
STF 7.5-2	Storage Tank F-7.5-2	VOC (Animal Fats)	2.44
STF 7.5-3	Storage Tank F-7.5-3	VOC (Animal Fats)	2.44
STF 7.5-4	Storage Tank F-7.5-4	VOC (Animal Fats)	2.44
STF 12-1	Storage Tank F-12-1	VOC (Animal Fats)	2.44
STF 12-2	Storage Tank F-12-2	VOC (Animal Fats)	2.44
STF 12-3	Storage Tank F-12-3	VOC (Animal Fats)	2.44

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STF 12-4	Storage Tank F-12-4	VOC (Animal Fats)	2.44
P TANK FARM			
STP 15-29	Storage Tank P-15-29	VOC	191.37
STP 15-30	Storage Tank P-15-30	VOC	191.37
STP 15-31	Storage Tank P-15-31	VOC	191.37
STP 15-32	Storage Tank P-15-32	VOC	191.37
STP 15-33	Low-Pressure Storage Tank P-15-33	VOC	191.37
STP 15-34	Low-Pressure Storage Tank P-15-34	VOC	191.37
STP 15-35	Low-Pressure Storage Tank P-15-35	VOC	191.37
STP 15-36	Storage Tank P-15-36	VOC	191.37
STP 15-37	Storage Tank P-15-37	VOC	191.37
STP 15-38	Storage Tank P-15-38	VOC	191.37
STP 15-39	Storage Tank P-15-39	VOC	191.37
STP 15-40	Storage Tank P-15-40	VOC	191.37
STP 15-41	Storage Tank P-15-41	VOC	191.37
STP 15-42	Storage Tank P-15-42	VOC	191.37
STP 25-2	Storage Tank P-25-2	VOC	191.37

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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STP 25-3	Storage Tank P-25-3	VOC	191.37
STP 40-1	Storage Tank P-40-1	VOC	191.37
STP 40-2	Storage Tank P-40-2	VOC	191.37
STP 40-3	Storage Tank P-40-3	VOC	191.37
STP 50-1	Storage Tank P-50-1	VOC	191.37
STP 50-2	Storage Tank P-50-2	VOC	191.37
STP 50-3	Storage Tank P-50-3	VOC	191.37
STP 50-4	Storage Tank P-50-4	VOC	191.37
STP 50-5	Storage Tank P-50-5	VOC	191.37
STP 50-6	Low-Pressure Storage Tank P-50-6	VOC	191.37

Q TANK FARM

STQ 30-13	Storage Tank Q-30-13	VOC	191.37
STQ 30-14	Storage Tank Q-30-14	VOC	191.37
STQ 30-15	Storage Tank Q-30-15	VOC	191.37
STQ 30-16	Storage Tank Q-30-16	VOC	191.37
STQ 30-17	Storage Tank Q-30-17	VOC	191.37

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STQ 30-18	Storage Tank Q-30-18	VOC	191.37
STQ 30-19	Storage Tank Q-30-19	VOC	191.37
STQ 30-20	Storage Tank Q-30-20	VOC	191.37
STQ 40-4	Storage Tank Q-40-4	VOC	191.37
STQ 50-7	Storage Tank Q-50-7	VOC	191.37
STQ 50-8	Storage Tank Q-50-8	VOC	191.37
S TANK FARM			
STS 100-1	Internal Floating Roof Storage Tank S-100-1	MeOH	1.58
STS 100-2	Internal Floating Roof Storage Tank S-100-2	MeOH	1.58
STS 100-3	Internal Floating Roof Storage	MeOH	1.58
STS 100-4	Internal Floating Roof Storage Tank S-100-4	MeOH	1.58
V TANK FARM (HORIZONTAL DECK STORAGE TANKS)			
STV 2-1	Horizontal Deck Storage Tank V-2-1SS	VOC	191.37
STV 2-2	Horizontal Deck Storage Tank V-2-2SS	VOC	191.37

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STV 2-3	Horizontal Deck Storage Tank V-2-3SS	VOC	191.37
STV 2-4	Horizontal Deck Storage Tank V-2-4SS	VOC	191.37

AE TANK FARM (BIODIESEL FACILITY SUPPORT TANK FARM)

STAE 3.5-9	Storage Tank AE-3.5-9	Fatty Acid/Soap/Gums	0.42
STAE 7.5-16	Storage Tank AE-7.5-16	MeOH (VOC)	0.22
STAE 7.5-17	Storage Tank AE-7.5-17	Glycerine (VOC)	0.13
STAE 12-27	Storage Tank AE-12-27	Animal Fat/Oils/Grease	2.44
STAE 12-28	Storage Tank AE-12-28	Animal Fat/Oils/Grease	2.44
STAE 12-29	Storage Tank AE-12-29	Animal Fat/Oils/Grease	2.44
STAE 12-30	Storage Tank AE-12-30	Animal Fat/Oils/Grease	2.44
STAE 20-4	Storage Tank AE-20-4	Grease (VOC)	2.44
STAE 20-5	Storage Tank AE-20-5	Refined Vegetable Oils	0.49
STAE 20-6	Storage Tank AE-20-6	Refined Vegetable Oils	0.49
STAE 50-9	Storage Tank AE-50-9	Biodiesel (VOC)	1.70
STAE 50-10	Storage Tank AE-50-10	Biodiesel (VOC)	1.70

CE TANK FARM

STCE 12-31	Storage Tank CE-12-31	VOC	191.37
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ATTACHMENT A-1
EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
SHORT-TERM EMISSIONS

Emission Point No. (1)	Source Name (2)	AIR CONTAMINANTS DATA	
		Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STCE 12-32	Storage Tank CE-12-32	VOC	191.37
STCE 12-33	Storage Tank CE-12-33	VOC	191.37
STCE 12-34	Storage Tank CE-12-34	VOC	191.37
STCE 12-35	Storage Tank CE-12-35	VOC	191.37
STCE 12-36	Storage Tank CE-12-36	VOC	191.37
STCE 15-43	Storage Tank CE-15-43	VOC	191.37
STCE 15-44	Storage Tank CE-15-44	VOC	191.37
STCE 15-45	Storage Tank CE-15-45	VOC	191.37
STCE 15-46	Storage Tank CE-15-46	VOC	191.37
STCE 15-47	Storage Tank CE-15-47	VOC	191.37
STCE 15-48	Storage Tank CE-15-48	VOC	191.37
DE TANK FARM			
STDE 30-21	Storage Tank DE-30-21	VOC	191.37
STDE 30-22	Storage Tank DE-30-22	VOC	191.37
STDE 30-23	Storage Tank DE-30-23	VOC	191.37
STDE 30-24	Storage Tank DE-30-24	VOC	191.37
STDE 30-25	Storage Tank DE-30-25	VOC	191.37
STDE 30-26	Storage Tank DE-30-26	VOC	191.37

ATTACHMENT A-1
EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STDE 30-27	Storage Tank DE-30-27	VOC	191.37
STDE 30-28	Storage Tank DE-30-28	VOC	191.37
EE TANK FARM			
STEE 15-49	Storage Tank EE-15-49	VOC	191.37
STEE 15-50	Storage Tank EE-15-50	VOC	191.37
STEE 15-51	Storage Tank EE-15-51	VOC	191.37
STEE 15-52	Storage Tank EE-15-52	VOC	191.37
STEE 15-53	Storage Tank EE-15-53	VOC	191.37
STEE 15-54	Storage Tank EE-15-54	VOC	191.37
STEE 15-55	Storage Tank EE-15-55	VOC	191.37
STEE 15-56	Storage Tank EE-15-56	VOC	191.37
STEE 15-57	Storage Tank EE-15-57	VOC	191.37
STEE 30-29	Storage Tank EE-30-29	VOC	191.37
STEE 30-30	Storage Tank EE-30-30	VOC	191.37
STEE 30-31	Storage Tank EE-30-31	VOC	191.37
STEE 30-32	Storage Tank EE-30-32	VOC	191.37

ATTACHMENT A-1
EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA			
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
FE TANK FARM			
STFE 15-58	Storage Tank FE-15-58	VOC	191.37
STFE 15-59	Storage Tank FE-15-59	VOC	191.37
STFE 15-60	Storage Tank FE-15-60	VOC	191.37
STFE 15-61	Storage Tank FE-15-61	VOC	191.37
STFE 15-62	Storage Tank FE-15-62	VOC	191.37
STFE 15-63	Storage Tank FE-15-63	VOC	191.37
STFE 30-33	Storage Tank FE-30-33	VOC	191.37
STFE 30-34	Storage Tank FE-30-34	VOC	191.37
STFE 30-35	Storage Tank FE-30-35	VOC	191.37
GE TANK FARM			
STGE 7.5-18	Storage Tank GE-7.5-18	VOC	191.37
STGE 12-37	Storage Tank GE-12-37	VOC	191.37
STGE 12-38	Storage Tank GE-12-38	VOC	191.37
STGE 12-39	Storage Tank GE-12-39	VOC	191.37
STGE 12-40	Storage Tank GE-12-40	VOC	191.37
STGE 12-41	Storage Tank GE-12-41	VOC	191.37
STGE 12-42	Storage Tank GE-12-42	VOC	191.37

ATTACHMENT A-1
EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STGE 12-43	Storage Tank GE-12-43	VOC	191.37
STGE 12-44	Storage Tank GE-12-44	VOC	191.37
STGE 12-45	Storage Tank GE-12-45	VOC	191.37
STGE 12-46	Storage Tank GE-12-46	VOC	191.37
STGE 12-47	Storage Tank GE-12-47	VOC	191.37
STGE 15-64	Storage Tank GE-15-64	VOC	191.37
STGE 15-65	Storage Tank GE-15-65	VOC	191.37
STGE 15-66	Storage Tank GE-15-66	VOC	191.37
STGE 15-67	Storage Tank GE-15-67	VOC	191.37
STGE 15-68	Storage Tank GE-15-68	VOC	191.37
STGE 15-69	Storage Tank GE-15-69	VOC	191.37
STGE 15-70	Storage Tank GE-15-70	VOC	191.37
STGE 15-71	Storage Tank GE-15-71	VOC	191.37
STGE 15-72	Storage Tank GE-15-72	VOC	191.37
STGE 15-73	Storage Tank GE-15-73	VOC	191.37
STGE 15-74	Storage Tank GE-15-74	VOC	191.37
STGE 15-75	Storage Tank GE-15-75	VOC	191.37

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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RAILCAR, TANK TRUCK/ISO CONTAINER, AND MARINE LOADING FACILITIES

RACK R-1	Railcar Loading/Unloading Rack R-1 (26 Railcar Transfer Spots)	VOC	26.06 (per spot)
RACK R-2	Railcar Loading/Unloading Rack R-2 (22 Railcar Transfer Spots)	VOC	26.06 (per spot)
RACK R-3	Railcar Loading/Unloading Rack R-3 (18 Railcar Transfer Spots)	VOC	26.06 (per spot)
RACK R-5	Railcar Loading/Unloading Rack R-5 (16 Railcar Transfer Spots)	VOC	26.06 (per spot)
RACK R-6	Railcar Loading/Unloading Rack R-6 (24 Railcar Transfer Spots)	VOC	26.06 (per spot)
RACK R-7	Railcar Loading/Unloading Rack R-7 (24 Railcar Transfer Spots)	VOC	26.06 (per spot)
RACK R-8	Railcar Loading/Unloading/ Direct Transfer Rack R-8 (12 Railcar Transfer Spots)	VOC	26.06 (per spot)
RACK T-3	Tank Truck Loading/Unloading Rack T-3 (4 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-4	Tank Truck Loading/Unloading Rack T-4 (3 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-5	Tank Truck Loading/Unloading Rack T-5 (1 Tank Truck Bay)	VOC	26.06 (per spot)
RACK T-6	Tank Truck Loading/Unloading	VOC	26.06 (per spot)

ATTACHMENT A-1
EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
	Rack T-6 (4 Tank Truck Bays)		
RACK T-8	Tank Truck Loading/Unloading Rack T-8 (2 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-9	Tank Truck Loading/Unloading Rack T-9 (4 Tank Truck Bays)	VOC	26.06 (per spot)
RACK T-10	Tank Truck Loading/Unloading Rack T-10 (6 Tank Truck Bays)	VOC	26.06 (per spot)
SHIP DOCK 2	Ship Dock Number 2 (1 Vessel Berth)	VOC (5)	337.5
SHIP DOCK 3	Ship Dock Number 3 (1 Vessel Berth)	VOC (5)	337.5
SHIP DOCK 10	Ship Dock Number 10 (1 Vessel Berth)	VOC (5)	337.5
SHIP DOCK 11	Ship Dock Number 11 (1 Vessel Berth)	VOC (5)	337.5
BARGE DOCK C	Barge Dock C (2 Barges Deep)	VOC (5)	82.13
BARGE DOCK E	Barge Dock E (2 Barges Deep)	VOC (5)	60.02
SCRUBBING SYSTEM			
SCR-2	Scrubber SCR-2 (4)	Epichlorohydrin	0.01
		Acetic Acid (4)	3.60

ATTACHMENT A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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TERMINAL FLARE SYSTEMS

TVFL	Tank Farm Vent Flare (2-Stage John Zink Flare), (Rack T-6, Rack R-2, and all Low-Pressure Storage Tanks in D and P Tank Farms) (03/09)	CO	67.70
		NO _x	7.90
		VOC	146.4
FL-1	McGill Loading Flare (Rack R-1, Rack R-3, and Racks T-3 to T-5)	CO	19.10
		NO _x	2.20
		VOC	41.54
MLFR	Marine Loading Flare (John Zink Flare) (Ship Dock 2/3 and Barge Dock C)	CO	16.50
		NO _x	1.90
		VOC	36.21
MLFR-2	East Marine Loading Flare (Ship Dock 10/11 and Barge Dock E)	CO	16.50
		NO _x	1.90
		VOC	36.21
FL-5	East Land Loading Flare	CO	19.10
L-5	East Land Loading FI (Racks R-5 to R-8 and T-8 to T-10)	NO _x	2.20
		VOC	41.54

TERMINAL BOILERS

BLR-2	Boiler BLR-2 (32.7 MM Btu/Hour) Cleaver-Brooks Model CB-LE 800-Horsepower (S-4 Boiler)	CO	4.91
		NO _x	2.29
		PM	0.33
		SO ₂	0.03
		VOC	0.18

Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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INTERNAL COMBUSTION ENGINES

FIRE-PUMP	Rack R-4 Fire Water Pump Diesel Engine (6) Caterpillar Model 3406B-T 370-Horsepower	CO	2.47
		NO _x	11.47
		PM	0.81
		SO ₂	0.76
		VOC	0.93
DOCK-ENG	John Deere 4045D Diesel Engine Ship Dock 2/3 80-Horsepower	CO	0.53
		NO _x	1.92
		PM	0.18
		SO ₂	0.16
		VOC	0.06

PLANT EQUIPMENT FUEL STORAGE TANKS (7)

DIESEL-1	Horizontal Diesel Fuel Storage Tank	Diesel Fuel	0.41
GASOLINE -1	Horizontal Gasoline Storage Tank	Gasoline	33.50

PIPING COMPONENT EQUIPMENT LEAK FUGITIVE EMISSIONS

FU	Piping Fugitive Emissions (8)	VOC	17.73
		Non-VOC	0.18

TERMINAL MAINTENANCE OPERATIONS

DEGREASER	Power Systems Parts Washer Model Number 93-06-P5-5563	VOC	0.04
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Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

- (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 Title 30 Texas Administrative Code § 101.1 (30 TAC § 101.1)
 - CO - carbon monoxide
 - MeOH - methanol
 - NO_x - total oxides of nitrogen
 - 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 PM greater than 10 microns in emitted.
 - SO₂ - sulfur dioxide
- (4) Scrubber SCR-2 is authorized under Permit Number 41618 to control epichlorohydrin tank truck and railcar loading operations as shown on Permit Attachment B. Scrubber SCR-2 is also authorized under 30 TAC §106.472(8) effective September 4, 2000 to control acetic acid vapors from Storage Tanks E12-19SS, E12-20SS, and E12-21SS.
- (5) The permitted marine loading emission rates do not include transfer operations that occur directly between marine vessels not utilizing any shore-based equipment to facilitate the product transfer (i.e., lightering operations).
- (6) The Rack R-4 Fire Water Pump Diesel Engine is authorized under permit by rule (PBR) of 30 TAC § 106.511 effective September 4, 2000. The engine was installed in November of 2000 and did not require agency registration.
- (7) Equipment fuel tanks authorized under PBR of 30 TAC §§ 106.472 and 106.473.
- (8) 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:

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

Dated April 6, 2009