

ATTACHMENT A-1

Permit Number 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.

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
STA 7.5-7	Storage Tank A-7.5-7	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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
STA 15-3	Storage Tank A-15-3	VOC	191.37

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

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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-7-1	SS VOC	191.37
STD 7-2	Low-Pressure Storage Tank D-7-2	SS VOC	191.37
STD 7-3	Low-Pressure Storage Tank D-7-3	SS 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
STD 7.5-15	Low-Pressure Storage Tank D-7.5-15	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
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 D-15-24	VOC	191.37
STD 15-25	Low-Pressure Storage Tank D-15-25SS	VOC	191.37
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

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Emission Point No. (1)	Source Name (2)	AIR CONTAMINANTS DATA	
		Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STD 30-10 E TANK FARM	Low-Pressure Storage Tank D-30-10	VOC	191.37
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
STE 12-19	Storage Tank E-12-19SS	VOC	191.37
STE 12-20	Storage Tank E-12-20SS	VOC	191.37
STE 12-21	Storage Tank E-12-21SS	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

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

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AIR CONTAMINANTS DATA

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

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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
Q TANK FARM			
STQ 12-31	Storage Tank Q-12-31	VOC	191.37
STQ 12-32	Storage Tank Q-12-32	VOC	191.37
STQ 12-33	Storage Tank Q-12-33	VOC	191.37
STQ 12-34	Storage Tank Q-12-34	VOC	191.37
STQ 12-35	Storage Tank Q-12-35	VO	191.37
STQ 12-36	Storage Tank Q-12-36	VOC	191.37
STQ 12-37	Storage Tank Q-12-37	VOC	191.37
STQ 15-43	Storage Tank Q-15-43	VOC	191.37
STQ 15-44	Storage Tank Q-15-44	VOC	191.37
STQ 15-45	Storage Tank Q-15-45	VOC	191.37
STQ 15-46	Storage Tank Q-15-46	VOC	191.37
STQ 15-47	Storage Tank Q-15-47	VOC	191.37
STQ 15-48	Storage Tank Q-15-48	VOC	191.37
STQ 15-49	Storage Tank Q-15-49	VOC	191.37
STQ 15-50	Storage Tank Q-15-50	VOC	191.37
STQ 15-51	Storage Tank Q-15-51	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
STQ 20-7	Storage Tank Q-20-7	VOC	191.37
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

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 Tank S-100-3	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-2-1	SS	VOC	191.37
STV 2-2	Horizontal Deck Storage Tank V-2-2	SS	VOC	191.37
STV 2-3	Horizontal Deck Storage Tank V-2-3	SS	VOC	191.37
STV 2-4	Horizontal Deck Storage Tank V-2-4	SS	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
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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
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 50-7	Storage Tank AE-50-7	Biodiesel (VOC)	1.70
STAE 50-8	Storage Tank AE-50-8	Biodiesel (VOC)	1.70

CE TANK FARM

STCE 12-38	Storage Tank CE-12-38	VOC	191.37
STCE 12-39	Storage Tank CE-12-39	VOC	191.37
STCE 12-40	Storage Tank CE-12-40	VOC	191.37
STCE 12-41	Storage Tank CE-12-41	VOC	191.37
STCE 12-42	Storage Tank CE-12-42	VOC	191.37
STCE 12-43	Storage Tank CE-12-43	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STCE 15-52	Storage Tank CE-15-52	VOC	191.37
STCE 15-53	Storage Tank CE-15-53	VOC	191.37
STCE 15-54	Storage Tank CE-15-54	VOC	191.37
STCE 15-55	Storage Tank CE-15-55	VOC	191.37
STCE 15-56	Storage Tank CE-15-56	VOC	191.37
STCE 15-57	Storage Tank CE-15-57	VOC	191.37
DE TANK FARM			
STDE 30-16	Storage Tank DE-30-16	VOC	191.37
STDE 30-17	Storage Tank DE-30-17	VOC	191.37
STDE 30-18	Storage Tank DE-30-18	VOC	191.37
STDE 30-19	Storage Tank DE-30-19	VOC	191.37
STDE 30-20	Storage Tank DE-30-20	VOC	191.37
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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
EE TANK FARM			
STEE 15-58	Storage Tank EE-15-58	VOC	191.37
STEE 15-59	Storage Tank EE-15-59	VOC	191.37
STEE 15-60	Storage Tank EE-15-60	VOC	191.37
STEE 15-61	Storage Tank EE-15-61	VOC	191.37
STEE 15-62	Storage Tank EE-15-62	VOC	191.37
STEE 15-63	Storage Tank EE-15-63	VOC	191.37
STEE 15-64	Storage Tank EE-15-64	VOC	191.37
STEE 15-65	Storage Tank EE-15-65	VOC	191.37
STEE 15-66	Storage Tank EE-15-66	VOC	191.37
STEE 30-24	Storage Tank EE-30-24	VOC	191.37
STEE 30-25	Storage Tank EE-30-25	VOC	191.37
STEE 30-26	Storage Tank EE-30-26	VOC	191.37
STEE 30-27	Storage Tank EE-30-27	VOC	191.37
FE TANK FARM			
STFE 15-67	Storage Tank FE-15-67	VOC	191.37
STFE 15-68	Storage Tank FE-15-68	VOC	191.37
STFE 15-69	Storage Tank FE-15-69	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STFE 15-70	Storage Tank FE-15-70	VOC	191.37
STFE 15-71	Storage Tank FE-15-71	VOC	191.37
STFE 15-72	Storage Tank FE-15-72	VOC	191.37
STFE 30-28	Storage Tank FE-30-28	VOC	191.37
STFE 30-29	Storage Tank FE-30-29	VOC	191.37
STFE 30-30	Storage Tank FE-30-30	VOC	191.37
GE TANK FARM			
STGE 7.5-18	Storage Tank GE-7.5-18	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 12-48	Storage Tank GE-12-48	VOC	191.37
STGE 12-49	Storage Tank GE-12-49	VOC	191.37
STGE 12-50	Storage Tank GE-12-50	VOC	191.37
STGE 12-51	Storage Tank GE-12-51	VOC	191.37
STGE 12-52	Storage Tank GE-12-52	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
STGE 12-53	Storage Tank GE-12-53	VOC	191.37
STGE 12-54	Storage Tank GE-12-54	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
STGE 15-76	Storage Tank GE-15-76	VOC	191.37
STGE 15-77	Storage Tank GE-15-77	VOC	191.37
STGE 15-78	Storage Tank GE-15-78	VOC	191.37
STGE 15-79	Storage Tank GE-15-79	VOC	191.37
STGE 15-80	Storage Tank GE-15-80	VOC	191.37
STGE 15-81	Storage Tank GE-15-81	VOC	191.37
STGE 15-82	Storage Tank GE-15-82	VOC	191.37
STGE 15-83	Storage Tank GE-15-83	VOC	191.37
STGE 15-84	Storage Tank GE-15-84	VOC	191.37

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> Pounds per Hour
RAIL CAR, TANK TRUCK / ISO CONTAINER, AND MARINE LOADING FACILITIES			
RACK R-1	Rail Car Loading/Unloading Rack R-1 (26 Rail Car Transfer Spots)	VOC	26.06 (per spot)
RACK R-2	Rail Car Loading/Unloading Rack R-2 (22 Rail Car Transfer Spots)	VOC	26.06 (per spot)
RACK R-3	Rail Car Loading/Unloading Rack R-3 (18 Rail Car Transfer Spots)	VOC	26.06 (per spot)
RACK R-5	Rail Car Loading/Unloading Rack R-5 (16 Rail Car Transfer Spots)	VOC	26.06 (per spot)
RACK R-6	Rail Car Loading/Unloading Rack R-6 (24 Rail Car Transfer Spots)	VOC	26.06 (per spot)
RACK R-7	Rail Car Loading/Unloading Rack R-7 (24 Rail Car Transfer Spots)	VOC	26.06 (per spot)
RACK R-8	Rail Car Loading/Unloading/Direct Transfer Rack R-8 (12 Rail Car 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 Rack T-6 (4 Tank Truck Bays)	VOC	26.06 (per spot)

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
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 (4)	337.5
SHIP DOCK 3	Ship Dock Number 3 (1 Vessel Berth)	VOC (4)	337.5
SHIP DOCK 10	Ship Dock Number 10 (1 Vessel Berth)	VOC (4)	337.5
SHIP DOCK 11	Ship Dock Number 11 (1 Vessel Berth)	VOC (4)	337.5
BARGE DOCK C	Barge Dock C (2 Barges Deep)	VOC (4)	82.13
BARGE DOCK E	Barge Dock E (2 Barges Deep)	VOC (4)	60.02
RAIL CAR CLEANING AND INTERMODAL TRANSFER STATION			
RACK R-4	Rail Car Cleaning/Loading/Unloading Rack R-4	VOC	95.90
		Non-VOC	0.13
RACK T-7	Tank Truck, Rail Car, and ISO Container Intermodal Transfer Rack T-7	VOC	95.90
		Non-VOC	0.13
TR-1	Rail Car Cleaning Station Caustic Storage ISO Container TR-1	NaOH	0.10
TR-4	Rail Car Cleaning Station Wash Water Storage Tank TR-4	VOC	0.79
		Non-VOC	0.63

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SHORT-TERM EMISSIONS

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates * Pounds per Hour
TR-5	Rail Car Cleaning Station Wash Water Storage Tank TR-5	VOC	0.79
		Non-VOC	0.63
TR-7	Rail Car Cleaning Station Wash Water Storage ISO Container TR-7	VOC	0.79
		Non-VOC	0.63
TR-8	Rail Car Cleaning Station Wash Water Storage ISO Container TR-8	VOC	0.79
		Non-VOC	0.63

P TANK FARM EPICHLOROHYDRIN CAUSTIC SCRUBBING SYSTEM

SCR-2P Tank Farm Caustic Scrubber SCR-2 Epichlorohydrin 0.01

TERMINAL FLARE SYSTEMS

TVFL	Tank Farm Vent Flare (2-Stage John Zink Flare)	CO	67.7
	(Rack T-6, Rack R-2, Tank P-50-6, and all D Tank Farm Low Pressure Storage Tanks)	NO _x	7.9
		VOC	146.47
FL-1	McGill Loading Flare	CO	19.1
	(Rack R-1, Rack R-3, and Racks T-3 to T-5)	NO _x	2.2
		VOC	41.54
MLFR	Marine Loading Flare (John Zink Flare)	CO	16.5
	(Ship Dock 2/3 and Barge Dock C)	NO _x	1.9
		VOC	36.21
MLFR-2	East Marine Loading Flare	CO	16.5
	(Ship Dock 10/11 and Barge Dock E)	NO _x	1.9
		VOC	36.21

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)	Emission Rates * Pounds per Hour
FL-4	Rail Car Cleaning/Intermodal Transfer MRW Flare (Racks R-4 and T-7)	CO	17.8
		NO _x	2.1
		SO ₂	28.08
		VOC	29.63
		Non-VOC	5.86
FL-5	East Land Loading Flare (Racks R-5 to R-8 and T-8 to T-10)	CO	19.1
		NO _x	2.2
		VOC	41.54

TERMINAL BOILERS

BLR-1	Boiler BLR-1 (33.5 MM Btu/Hour)	CO	2.39
	Cleaver-Brooks	NO _x	2.84
		PM _{0.22}	
		SO ₂	0.02
		VOC	0.16
BLR-2	Boiler BLR-2 (32.7 MM Btu/Hour)	CO	4.91
	Cleaver-Brooks Model CB-LE	NO _x	2.29
	800-Horespower	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)	Emission Rates * Pounds per Hour
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INTERNAL COMBUSTION ENGINES

FIRE-PUMPRack R-4 Fire Water Pump Engine (5)	CO	2.47	
Caterpillar Model 3406B-TNO _x 11.47			
370-Horsepower PM	0.81		
	SO ₂	0.76	
	VOC	0.93	

PLANT EQUIPMENT FUEL STORAGE TANKS (6)

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 (6)	VOC	17.73
		Non-VOC	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) CO - carbon monoxide

MeOH - methanol

NaOH - sodium hydroxide(caustic soda)

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 particulate matter greater than 10 microns in emitted.

SO₂ - sulfur dioxide

VOC - volatile organic compounds as defined

in Title 30 Texas Administrative Code § 101.1

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Attachment A-1

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

SHORT-TERM EMISSIONS

- (4) 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).
- (5) Rack R-4 Fire Water Pump is covered under Permit by Rule § 106.511 effective September 4, 2000. This Engine was installed in November 2000 and did not require agency registration.
- (6) Equipment fuel tanks authorized under Permits by Rule of Title 30 Texas Administrative Code §§ 106.472 and 106.473.
- (7) 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 August 25, 2006