

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 73193

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)	Emission Rates *	
			lb/hr	TPY**
SCRUB13	Scrubber No. 13A	VOC	9.36	0.39
		HCl	0.02	0.01
		Phosphonate-U	0.01	0.01
		H ₃ PO ₄	0.01	0.01
		H ₃ PO ₃	0.01	0.01
SCRUB11	Scrubber Nos. 10 and 11	VOC	9.36	***
		HCl	0.02	
		Phosphonate-U	0.01	
		H ₃ PO ₄	0.01	
		H ₃ PO ₃	0.01	
SCRUB14	Scrubber No. 14A and B	VOC	0.93	0.52
		HCl	0.07	0.02
		Phosphonate-U	0.01	0.01
		H ₃ PO ₄	0.02	0.01
		H ₃ PO ₃ 0.05	0.02	
		KOH 0.01	0.01	
		NaOH	0.01	0.01
SCRUB12	Scrubber No. 12	VOC	0.06	0.01
SCRUB8	Scrubber No. 8	VOC	0.18	0.01
		HCl	0.02	0.01
		Phosphonate-U	0.01	0.01
		H ₃ PO ₄	0.01	0.01
		H ₃ PO ₃	0.01	0.01
		KOH	0.01	0.01
		NaOH	0.01	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
SCRUB16	Scrubber No. 16	VOC	0.04	0.04
		HCl	0.01	0.01
		Phosphonate-U	0.01	0.01
		H ₃ PO ₄	0.01	0.01
		H ₃ PO ₃	0.01	0.01
		KOH 0.01	0.01	
		NaOH	0.01	0.01
SCRUB2	Scrubber No. 2	VOC	0.09	0.01
SCRUB3	Scrubber No. 3	VOC	0.12	0.04
SCRUB4	Scrubber No. 4	VOC	0.04	0.04
SCRUB5	Scrubber No. 5	VOC	0.01	0.01
SCRUB6	Scrubber No. 6	VOC	0.39	0.04
SCRUB7	Scrubber No. 7	VOC	0.01	0.01
SCRUB15	Scrubber No. 15	VOC	0.21	0.04
TK-1	Tank 1	VOC	1.45	0.03
TK-2	Tank 2	VOC	0.45	0.01
TK-3	Tank 3	VOC	0.01	0.01
TK-5	Tank 5	VOC	1.36	0.01
TK-6	Tank 6	VOC	0.01	0.04
TK-7	Tank 7	VOC	0.01	0.02
TK-8	Tank 8	VOC	0.01	0.01

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
TK-10	Tank 10	VOC	0.02	0.01
TK-11	Tank 11	VOC	0.85	0.02
TK-19	Tank 19	VOC	0.01	0.01
TK-20	Tank 20	VOC	0.01	0.12
TK-22	Tank 22	VOC	0.01	0.01
TK-24	Tank 24	VOC	0.01	0.12
TK-25	Tank 25	VOC	7.96	0.08
TK-27	Tank 27	VOC	2.91	0.02
TK-28	Tank 28	VOC	1.36	0.01
TK-29	Tank 29	VOC	3.22	0.08
TK-30	Tank 30	VOC	20.50	0.11
TK-31	Tank 31	VOC	0.72	0.01
TK-32	Tank 32	VOC	1.36	0.01
TK-33	Tank 33	VOC	2.32	0.06
TK-34	Tank 34	VOC	1.36	0.02
TK-35	Tank 35	VOC	3.22	0.09
TK-41	Tank 41	VOC	1.36	0.01
TK-47	Tank 47	VOC	10.40	0.49

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
TK-48	Tank 48	VOC	10.40	0.49
TK-52	Tank 52	VOC	11.09	0.18
TK-54	Tank 54	VOC	0.01	0.05
TK-55	Tank 55	VOC	0.01	0.09
TK-56	Tank 56	VOC	0.01	0.22
TK-58	Tank 58	VOC	0.01	0.09
TK-64	Tank 64	VOC	0.75	0.01
TK-65	Tank 65	VOC	0.01	0.01
TK-66	Tank 66	VOC	0.01	0.03
TK-69	Tank 69	VOC	0.02	0.11
TK-70	Tank 70	VOC	0.01	0.01
TK-72	Tank 72	VOC	0.02	0.61
TK-81	Tank 81	VOC	0.09	0.01
DRUMHEAT	Heated Drums	VOC	0.02	0.05
		Polyphosphoric Acid	0.01	0.01
TRUCKWASH	Tank Trailer Cleaning	VOC	6.53	0.98
CT-NORTH	North Cooling Tower	VOC	0.54	2.37
CT-SOUTH	South Cooling Tower	VOC	0.32	1.42
OILHEAT	Hot Oil Heater	NO _x	0.27	1.19

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
		CO	0.23	1.00
		VOC	0.01	0.07
		PM/PM ₁₀	0.02	0.09
		SO ₂	0.04	0.17
TRUCKLOAD	Truck Loading Fugitives(4)	VOC	0.07	0.06
		HCl 0.01	0.01	
		Phosphonate-U	0.01	0.01
		H ₃ PO ₄	0.01	0.01
		H ₃ PO ₃	0.01	0.01
		KOH 0.01	0.01	
		NaOH	0.01	0.01
WWDLFUG	Drum Loading from Wastewater Tanks(4)	VOC	1.26	0.01
PLANTFUG	Plant Fugitives(4)	VOC	0.53	2.28
RBLENDFUG	Reactor and Blender Fugitives(4)	VOC	1.67	7.14
		NH ₃	0.06	0.27
		Cl ₂	0.01	0.01
TB1FUG	Tank Battery 1 Fugitives(4)	VOC	0.25	1.11
TB2FUG	Tank Battery 2 Fugitives(4)	VOC	0.57	2.48
TB3FUG	Tank Battery 3 Fugitives(4)	VOC	0.44	1.82
TB4FUG	Tank Battery 4 Fugitives(4)	VOC	0.74	3.14
		NH ₃	0.02	0.11
TB5FUG	Tank Battery 5 Fugitives(4)	VOC	0.06	0.25

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
TB6FUG	Tank Battery 6 Fugitives(4)	VOC	0.01	0.06
TB8FUG	Tank Battery 8 Fugitives(4)	VOC	0.34	1.28

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 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.
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 CO - carbon monoxide
 HCl - hydrogen chloride
 NaOH - sodium hydroxide
 KOH - potassium hydroxide
 H₃PO₄ - Phosphoric acid
 H₃PO₃ - Phosphorous acid
 NH₃ - ammonia
 Cl₂ - chlorine
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

** Compliance with annual emission limits is based on a rolling 12-month period.

*** Annual emissions for EPN SCRUB 11 are included in the annual emissions for EPN SCRUB 13.

Dated August 24, 2005