

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 17392

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>	
			<u>lb/hr</u>	<u>TPY</u>
SW-1	Flare	VOC	0.33	0.02
		NO _x	0.31	0.97
		HCN	0.64	1.87
		NH ₃	0.33	0.04
		CO	1.03	4.05
		SO ₂	<0.001	<0.001
SW-2	Kettle Vent	(Emergency or maintenance use only)		
SW-5	Tank 9460 (Dinonene)	VOC (10)	0.02	<0.01
SW-6	Tank 90069 (Non/D-lim)	VOC (11, 13)	5.30	0.04
SW-7	Tank 90070 (DIB)	VOC (9)	0.88	0.72
SW-8	Tank 12065 (Weigh Tank)	VOC (9, 10, 11, 13) 0.24		0.03
SW-10	Tank 91346 (81-R)	VOC (8)	1.85	0.23
SW-12	Tank 12122 (Aqua NH ₃)	NH ₃	0.47	2.39
SW-13	Tank 91009 (Pro-Tet)	VOC (12)	5.50	1.25
SW-14	Tank 90480 (Pro-Tet)	VOC (12)	5.50	1.25
SW-16	Tank 12126 (Aqua Salt)	NH ₃	0.11	1.49
SW-17	Tank 90022 (Crude81-R)	VOC (6, 8)	1.66	0.18

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates</u>	
			lb/hr	TPY
SW-22	Tank 91007 (Crude81-R)	VOC (6, 8)	1.66	0.02
SW-27	Fugitives (4)	VOC	0.53	2.34
		HCN	0.22	0.95
		NH ₃	0.10	0.42
SW-28	Tank 12223 (Dist. TOA)	VOC (6)	2.66	0.24
SW-29	Drumming Station	VOC (5, 6, 7, 8)	0.98	0.05
SW-30	Railcar Loading Rack	VOC (5, 6, 7, 8)	0.95	0.21
SW-31	Tank Truck/Deck Tank Loading Rack	VOC (6, 8)	0.32	0.09
SW-34	1,000 Gallon Vacuum Jet	VOC (8, 14)	4.42	1.45
SW-35	3,000 Gallon Vacuum Jet	VOC (8)	1.17	4.68
SW-36	Tank 91010 (Distilled 81-R)	VOC (8)	1.84	0.24
SW-38	Hot Well	VOC (5, 6, 7, 8, 14) <0.01		0.07

- (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 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
 CO - carbon monoxide
 HCN - hydrogen cyanide
 NH₃ - anhydrous ammonia
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable

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emission rate.

- (5) MD - methane diamine
- (6) TOA - t-octylamine
- (7) JMT - t-alkyl primary amines
- (8) 81-R - t-alkyl amines (C12-C14)
- (9) DIB - di-isobutylene
- (10) Dinonene
- (11) D-limonene
- (12) Propylene tetramer
- (13) Nonene
- (14) BC-9 - t-alkyl amines (C8-C10)

For the emission sources referencing compounds (5) through (8), the represented allowable is for t-octylamine (TOA), the compound which generates the highest emission rate.

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

Dated November 30, 2000