

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 3186

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) <u>(6)(8)</u>	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr (5)	TPY
094	A-613 Flare (7) (4/98)	VOC	0.92	0.23
		HCl	1.30	0.49
		H ₂ S	0.04	0.04
		NO _x	0.05	0.07
		SO ₂	3.50	1.91
		CO	0.27	0.13
326	C-108 BOU Scrubber (4/98)	VOC	1.16	4.16
		H ₂ S	0.06	0.23
		Organo Sulfate	0.09	0.34
074	C-208 Scrubber (4/98)	VOC	0.11	0.03
154	T-121 Filter Feed Tank (4/98)	VOC	0.14	0.01
155	T-122 Filter Feed Tank (4/98)	VOC	0.09	0.01
192	C-183 Scrubber (4/98)	VOC	4.68	1.21
		Mercaptan	0.003	0.008
046	T-441 Tank (4/98)	VOC	1.74	0.31
061	T-425 Tank (4/98)	VOC	0.24	0.01
062	T-426 Tank (4/98)	VOC	0.09	0.01
064	T-428 Tank (4/98)	VOC	0.09	0.01
044	T-412 SIB Tank (4/98)	VOC	2.86	0.80

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Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr (5)	TPY
<u>(6)(8)</u>				
049	T-410 Brine Tank (4/98)	VOC	0.94	0.09
051	T-414 Brine Tank (4/98)	VOC	0.94	0.09
053	T-448 Brine Tank (4/98)	VOC	0.94	0.09
054	T-417 Brine Tank (4/98)	VOC	0.94	0.09
196	V-102 Vessel (4/98)	VOC	0.006	0.005
168	V-157 Vessel (4/98)	VOC	0.03	0.009
275	T-149 Tank (4/98)	VOC	<0.01	<0.01
137	T-130 Tank (4/98)	VOC	0.32	0.09
082	T-184 Stripper Seal Pot (4/98)	VOC	<0.01	<0.001
128	T-134 Caustic (4/98)	Inorganic	<0.01	<0.01
F-1	Fugitives Zone 1 (4) (4/98)	VOC	0.06	0.25
F-2	Fugitives Zone 2 (4) (4/98)	VOC	0.21	0.79
F-3	Fugitives Zone 3 (4) (4/98)	VOC	0.59	0.85
		Ammonia	0.02	0.02
		HCl	0.17	0.63
		H ₂ S	0.14	0.54
		S ₂ Cl ₂	0.03	0.12
F-9	Fugitives Zone 9 (4) (4/98)	VOC	0.86	3.75
		Peroxide	0.35	1.52

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Emission Point No. (1) (6)(8)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr (5)	TPY
WF-10	Fugitives Zone WF-10 (4) (4/98)	VOC	0.96	0.45
LWF-10	Loading (4/98)	VOC	7.19	0.48
527A	Filter Cake Loading (4/98)	VOC	2.12	0.01

- (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
HCl - hydrogen chloride
H₂S - hydrogen sulfide
S₂Cl₂ - sulfur monochloride
NO_x - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Maximum pounds per hour emission from any product produced.
- (6) Total annual emissions in tons per year from all products produced.
- (7) Emission rates are those attributed to the sulfurized isobutylene unit (SIB) sources and do not include emissions attributed to other sources on-site.
- (8) Annual emissions are based on a rolling 12-month basis.

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

Hrs/day____ Days/week____ Weeks/year____ or Hrs/year 8,760

Dated_____