

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 20948

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
F-8-A	Zinc Kettle A Fabric Filter	PM ₁₀ (5)	<0.03	<0.11
		NH ₄ Cl	<0.02	<0.08
		ZnO	<0.004	<0.02
		ZnCl ₂	<0.001	<0.005
		Zn	<0.002	<0.006
		NH ₃	<0.001	<0.001
X-2-A	Zinc Kettle A Burner Stack	NO _x	0.24	0.53
		CO	0.20	0.44
		VOC	0.013	<0.03
		SO ₂	0.001	0.003
		PM ₁₀	0.018	0.04
		Pb	1.2E-6	2.6E-6
X-3-A	Zinc Kettle A Burner Stack	NO _x	0.24	0.53
		CO	0.20	0.44
		VOC	0.013	<0.03
		SO ₂	0.001	0.003
		PM ₁₀	0.018	0.04
		Pb	1.2E-6	2.6E-6
FUGA	Building A (4 and 6) Fugitives	PM ₁₀ (8)	0.15	0.54
		NH ₄ Cl	<0.05	0.20
		ZnO	0.01	0.05
		Zn	0.004	<0.02
		ZnCl ₂	0.003	0.01
		NH ₃	<0.001	0.003
		NaOH	<0.03	0.12

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hrTPY	
		HCl	0.031	0.004
		NO _x	0.07	0.15
		CO	0.06	0.13
		SO ₂	<0.001	<0.001
		VOC	<0.01	<0.01
		Pb	<3.4E-7	<7.4 E-7
		Zinc Ammonium Chloride	<0.03	0.12
X-5-A	Caustic Tank Burners Plant A	NO _x	0.48	1.05
		CO	0.40	0.88
		VOC	<0.03	<0.06
		SO _x	<0.003	0.006
		PM ₁₀	0.04	0.08
		Pb	2.4E-6	5.3E-6
F-8-B	Zinc Kettle B Fabric Filter	PM ₁₀ (5)	0.04	0.16
		NH ₄ Cl	0.03	0.12
		ZnO	0.01	0.03
		ZnCl ₂	0.002	0.007
		Zn	<0.002	0.009
		NH ₃	<0.001	<0.002
X-2-B	Zinc Kettle B Burner Stack	NO _x	0.43	0.94
		CO	0.36	0.79
		VOC	0.02	0.05
		SO ₂	<0.003	<0.006
		PM ₁₀	0.03	0.07
		Pb	2.2E-6	4.7E-6
X-3-B	Zinc Kettle B Burner Stack	NO _x	0.43	0.94
		CO	0.36	0.79
		VOC	0.02	0.05
		SO ₂	<0.003	<0.006

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hrTPY	
		PM ₁₀	0.03	0.07
		Pb	2.2E-6	4.7E-6
X-5-B	Caustic Tank Burners Plant B	NO _x	0.48	1.05
		CO	0.40	0.88
		VOC	<0.03	<0.06
		SO _x	<0.003	0.006
		PM ₁₀	0.04	0.08
		Pb	2.4E-6	5.3E-6

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hrTPY	
FUGB	Building B (4 and 7) Fugitives	PM ₁₀ (8)	0.23	0.80
		NH ₄ Cl	<0.07	0.29
		ZnO	<0.02	0.07
		Zn	<0.01	0.02
		ZnCl ₂	0.004	<0.02
		NH ₃	<0.001	0.005
		NaOH	0.027	0.12
		HCl	<0.05	<0.006
		NO _x	0.07	0.15
		CO	0.06	0.13
		SO ₂	<0.001	<0.001
		VOC	<0.01	<0.01
		Pb	<3.4E-7	<7.4 E-7
		Zinc Ammonium Chloride	<0.06	0.24

(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) PM₁₀ - particulate matter (PM) 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 is emitted.

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

ZnO - zinc oxide

ZnCl₂ - zinc chloride

NH₃ - ammonium

NH₄Cl - ammonium chloride

Zn - zinc

HCl - hydrogen chloride

Pb - lead

NaOH - sodium hydroxide

(4) Fugitive emissions are an estimate only.

(5) Includes NH₄Cl, NH₃, ZnO, ZnCl₂, and Zn.

(6) Includes emissions from Facility Identification Nos. (FINs) F-7-A, F-5-A, F-4-A1, F-4-A2, F-4-A3, F-4-A4, F-6-A, X-4-A1, and X-4-A2

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hrTPY
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(7) Includes emissions from FINs F-7-B, F-5-B, F-4-B1, F-4-B2, F-4-B3, F-6-B, X-4-B1, and X-4-B2

(8) Includes NH_4Cl , NH_3 , ZnO , ZnCl_2 , Zn , NaOH , HCl , and Zinc Ammonium chloride.

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- * Emission rates are based on the production rates listed below, a maximum HCl concentration in the pickle tanks of 16 percent w/w, and the facilities are limited by the following maximum operating schedule:

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

Maximum Production Rate: Kettle A	<u>120</u> tons/day	<u>43,800</u> tons/year
Kettle B	<u>180</u> tons/day	<u>65,700</u> tons/year

Date_____