

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 38389

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 Rates *		Air Contaminant Emission			
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY	
1	Zinc Kettle Baghouse Stack	PM/PM ₁₀ (5)	0.095	0.29	
		NH ₄ Cl	0.064	0.20	
		ZnO	0.015	0.05	
		ZnCl ₂	0.004	0.01	
		Zn	0.005	0.02	
		NH ₃	0.001	<0.01	
BLDG1-FUG	Building 1 Fugitives	(4, 5, and 6) PM/PM ₁₀		0.26	
	0.81				
	Pickle Tanks 1, 2, and 3, VOC		0.01	0.03	
	Caustic and Preflux Tanks,	CO		0.10	
	0.44				
	Chromate Conversion Tank, NO _x		0.12	0.52	
	Zinc Kettle Fugitives, and	HCl		0.02	
	0.08				
	Immersion Heaters	SO ₂	<0.001	<0.01	
		NH ₄ Cl	0.170	0.52	
		ZnO	0.040	0.12	
		ZnCl ₂	0.010	0.03	
		Zn	0.013	0.04	
		NH ₃	0.003	0.01	
		CrO ₃	<0.01	<0.02	
		NaOH	<0.01	<0.01	
		Na ₂ SiO ₃ · 5H ₂ O	<0.01	<0.01	
5	Kettle Burner Stack	PM/PM ₁₀	0.04	0.18	
		VOC	0.03	0.13	
		NO _x	0.55	2.40	
		SO ₂	<0.01	<0.02	
		CO	0.46	2.02	

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>
<u>New Pickle Bay/Building No. 2</u>				
HEAT	Hot Water Heater Stack	PM/PM ₁₀	0.02	0.10
		NO _x	0.29	1.29
		CO	0.25	1.08
		VOC	<0.02	0.07
		SO ₂	<0.002	<0.01
SCRUB-1	Caustic, Pickle, and Preflux	HCl		0.03
	0.06			
	Scrubber (Caustic Tank, Pickle	NaOH		<0.001
	<0.003			
	Tanks T-HCl-1, T-HCl-2, Na ₂ SiO ₃ · 5H ₂ O		<0.001	<0.003
	T-HCl-3, and T-HCl-4, and ZnCl ₂		<0.001	<0.005
	Preflux Tank)	NH ₄ Cl	<0.001	<0.005
BLDG2-FUG	Building 2 Fugitives	(4) HCl	0.09	0.16
		NaOH	<0.002	<0.007
HCl-1,	Na ₂ SiO ₃ · 5H ₂ O	<0.002	<0.007	
	T-HCl-2, T-HCl-3, and T-HCl-4)			<0.003
	<0.014			
		NH ₄ Cl	<0.003	<0.012

(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.

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- (3) 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.
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
HCl - hydrogen chloride
NH₄Cl - ammonium chloride
ZnO - zinc oxide
ZnCl₂ - zinc chloride
Zn - zinc
NH₃ - ammonia
CrO₃ - chromate
NaOH - sodium hydroxide
Na₂SiO₃ · 5H₂O - sodium metasilicate pentahydrate
(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
(5) PM/PM₁₀ includes NH₄Cl, ZnO, ZnCl₂, Zn, NH₃, CrO₃, NaOH, and Na₂SiO₃ · 5H₂O.
(6) The caustic tank, HCl acid pickle tanks, preflux tank, and immersion heaters operating in Building No. 1 will be removed from service when the replacement facilities in Building No. 2 become operational.

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

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
	Hrs/day	Days/week	Weeks/year or	8,760
	Hrs/year			

Dated February 9, 2009