

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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 *	Source	Air Contaminant	Emission Rates	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY
1	Zinc Kettle Baghouse Stack	PM ₁₀ (5)	0.090	0.29
		NH ₄ Cl	0.061	0.20
		ZnO	0.014	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, &6) PM/PM10		0.26
	0.81			
	Pickle Tanks 1, 2, & 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 ₁₀	0.04	0.18
		VOC	0.03	0.13
		NO _x	0.55	2.40
		SO ₂	<0.01	<0.01
		CO	0.46	2.02
SCRUB-1	Pickle Tanks Scrubber	HCl	0.03	0.06
	Tanks T-HCl-1, T-HCl-2,			
	T-HCl-3, and T-HCl-4			

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BLDG2-FUG	Building 2 Fugitives	(4)	PM/PM10	0.02
	0.10			
	(Caustic Tank, Preflux Tank,		VOC	0.02
	0.07			
	Immersion Heater, and	SO2	0.002	0.01
	and Pickle Tanks T-HCl-1,	CO	0.25	1.08
	T-HCl-2, T-HCl-3, and T-HCl-4)	NOx		0.29
	1.29			
		HCl	0.09	0.16
		NaOH	<0.01	<0.04
		Na ₂ SiO ₃ ·5H ₂ O	<0.01	<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) 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 General Rule 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, and NH₃.
- (6) The caustic tank, HCl acid tanks, preflux tank, and immersion heaters operating in Building No. 1 will be removed from service when the replacement facilities in Building No. 2

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become operational.

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

_____Hrs/day _____Days/week _____Weeks/year or _____8,760
Hrs/year

Dated_____