

Emission Sources - Maximum Allowable Emission Rates

Permit Number 38041

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, sources, and related activities. 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 (6)	
			lbs/hour	TPY (4)
Stack 5	Zinc Kettle Baghouse Stack	PM	1.10	2.45
		PM ₁₀	1.10	2.45
		PM _{2.5}	0.90	2.01
		NH ₄ Cl	0.75	1.66
		ZnO	0.18	0.39
		ZnCl ₂	0.04	0.10
		Zn	0.06	0.12
		NH ₃	0.01	0.02
FUG-6	Building Fugitives (Zinc Kettle, Caustic Tank, Acid Tanks, Preflux Tank, Quench Tank, and Spot Removal) (5)	PM	0.19	0.42
		PM ₁₀	0.19	0.42
		PM _{2.5}	0.15	0.34
		NH ₄ Cl	0.13	0.28
		ZnO	0.03	0.07
		ZnCl ₂	<0.01	0.02
		Zn	0.10	0.02
		NH ₃	0.002	0.004
		NaOH	0.02	0.10
		H ₂ SO ₄	0.0132	0.058
		CrO ₃	0.0005	0.002
		VOC	0.34	0.71
Stack 6	Zinc Kettle Burner Stack (12 MMBtu/hr)	PM	0.09	0.38
		PM ₁₀	0.09	0.38
		PM _{2.5}	0.09	0.38
		SO ₂	<0.01	0.03

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		CO	0.96	4.21
		NO _x	1.14	5.01
		VOC	0.06	0.28
Stacks 7A and 7B	Boilers 7A and 7B Stacks (6.615 MMBtu/hr each)	PM	0.05	0.21
		PM ₁₀	0.05	0.21
		PM _{2.5}	0.05	0.21
		SO ₂	<0.01	0.02
		CO	0.53	2.32
		NO _x	0.63	2.76
		VOC	0.05	0.21
TCHUP	Aerosol Touchup (5)	VOC	1.33	2.81
		Zn	0.04	0.08
MZR	Metaulics Zinkoff Recovery (MZR) Machine Stack (0.84 MMBtu/hr)	PM	0.01	0.03
		PM ₁₀	0.01	0.03
		PM _{2.5}	0.01	0.03
		SO ₂	<0.01	<0.01
		CO	0.07	0.29
		NO _x	0.08	0.35
		VOC	<0.01	0.02

- (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
- NO_x
 - total oxides of nitrogen
- SO₂
 - sulfur dioxide
- PM
 - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
- PM₁₀
 - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
- PM_{2.5}
 - particulate matter equal to or less than 2.5 microns in diameter
- CO
 - carbon monoxide
- NaOH
 - sodium hydroxide
- NH₄Cl
 - ammonium chloride
- ZnO
 - zinc oxide
- ZnCl₂
 - zinc chloride
- Zn
 - zinc
- NH₃
 - ammonia
- H₂SO₄
 - sulfuric acid
- CrO₃
 - chromic acid

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- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: September 30, 2019