

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1417

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)	<u>Emission Rates</u>	
			lb/hr	TPY*
103	Zinc Kettle Baghouse Stack	PM/PM <sub>10</sub>	0.61	2.68
		NH <sub>4</sub> Cl	0.42	1.82
		ZnO	0.10	0.43
		ZnCl <sub>2</sub>	<0.03	0.11
		NH <sub>3</sub>	0.03	<0.14
		Zn	<0.01	<0.03
101	Zinc Kettle Burner Stack	PM/PM <sub>10</sub>	0.07	0.30
		SO <sub>2</sub>	<0.01	0.15
		CO	0.12	0.53
		NO <sub>x</sub>	<0.58	2.51
		VOC	<0.04	0.15
102	Boiler Stack	PM/PM <sub>10</sub>	0.06	0.26
		SO <sub>2</sub>	<0.01	<0.02
		CO	0.11	0.46
		NO <sub>x</sub>	0.50	2.19
		VOC	0.03	0.13
BLDG FUG	Building Fugitives (4) Zinc Kettle, HCl Tanks, NaOH Tanks, Rinse Tank, Pre-Flux Tank, Chromate Quench Tank, and MZR	PM/PM <sub>10</sub>	0.24	0.99
		SO <sub>2</sub>	<0.001	<0.0002
		CO	<0.07	<0.03
		NO <sub>x</sub>	0.08	0.03
		VOC	<0.01	<0.002
		NH <sub>4</sub> Cl	0.07	0.31
		ZnO	<0.02	0.07
		ZnCl <sub>2</sub>	0.004	<0.02
		Zn	0.005	0.023
		NH <sub>3</sub>	0.001	0.005
		NaOH	0.08	0.33
		HCl	0.045	0.20
		Cr	0.0003	0.0012

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- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
  - (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
  - (3) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>  
PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
CO - carbon monoxide  
HCl - hydrogen chloride  
NaOH - sodium hydroxide  
Cr - chromium  
NH<sub>4</sub>Cl - ammonium chloride  
ZnO - zinc oxide  
ZnCl<sub>2</sub> - zinc chloride  
Zn - zinc  
NH<sub>3</sub> - ammonia
  - (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- \* Compliance with annual emission limits is based on a rolling 12-month period.

Dated June 21, 2010