

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 39567

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
1	Zinc Kettle Baghouse Stack [3' and 24' Hot Dip Galvanizing Kettles]	PM/PM <sub>10</sub> (5)	0.04	0.11
		NH <sub>4</sub> Cl	0.03	0.08
		ZnO	0.01	0.02
		ZnCl <sub>2</sub>	0.01	<0.01
		Zn	0.02	<0.01
		NH <sub>3</sub>	<0.01	<0.01
1 FUG	24' Zinc Kettle Fugitives (4)	PM/PM <sub>10</sub> (5)	0.03	0.12
		NH <sub>4</sub> Cl	0.022	0.08
		ZnO	0.005	0.02
		ZnCl <sub>2</sub>	0.002	0.01
		Zn	0.002	0.01
		NH <sub>3</sub>	0.001	<0.01
3	24' Zinc Kettle Heater Stack	PM/PM <sub>10</sub>	0.02	0.05
		VOC	0.02	0.04
		NO <sub>x</sub>	0.29	0.64
		SO <sub>2</sub>	<0.01	0.04
		CO	0.24	0.54
2 FUG	Four Hydrochloric Acid Pickle Tanks (4)	HCl	0.003	0.01
4	Caustic and Preflux Heaters [Sodium Hydroxide and Zinc Ammonium Chloride Process Tank Heaters]	PM/PM <sub>10</sub>	<0.01	<0.01
		VOC	<0.01	0.01
		NO <sub>x</sub>	0.05	0.02
		SO <sub>2</sub>	<0.01	0.01
		CO	0.13	0.28

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5	3' Recovery Kettle Heater Stack	PM/PM <sub>10</sub>	<0.01	0.03
		VOC	0.02	0.02
		NO <sub>x</sub>	0.40	0.20
		SO <sub>2</sub>	<0.01	0.01
		CO	0.13	0.28
8 FUG	3' Recovery Kettle Fugitives (4)	PM/PM <sub>10</sub> (5)	<<0.01	<<0.01
		NH <sub>4</sub> Cl	<0.001	<0.001
		ZnO	<0.001	<0.001
		ZnCl <sub>2</sub>	<<0.001	<<0.001
		Zn	<<0.001	<<0.001
		NH <sub>3</sub>	<<0.001	<<0.001
6	Sodium Hydroxide Process Tank	PM/PM <sub>10</sub> /NaOH	0.014	0.053
7	Zinc Ammonium Chloride Process Tank	PM/PM <sub>10</sub> /ZnCl <sub>2</sub> •2NH <sub>4</sub> Cl	0.21	0.058

- (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) PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

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PM <sub>10</sub>	- 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 <sub>x</sub>	- total oxides of nitrogen
SO <sub>2</sub>	- sulfur dioxide
CO	- carbon monoxide
HCl	- hydrogen chloride
NH <sub>4</sub> Cl	- ammonium chloride
ZnO	- zinc oxide
ZnCl <sub>2</sub>	- zinc chloride
Zn	- zinc
NH <sub>3</sub>	- ammonia
NaOH	- sodium hydroxide
ZnCl <sub>2</sub> •2NH <sub>4</sub> Cl	- zinc ammonium chloride

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Includes NH<sub>4</sub>Cl, ZnO, ZnCl<sub>2</sub>, Zn, and NH<sub>3</sub>.

Dated July 30, 2009