

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 49126

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)
BGHSEW-1	West Baghouse Stack  (32' South Zinc Kettle and 32' North Zinc Kettle)	PM	0.05	<0.10
		PM <sub>10</sub>	0.05	<0.10
		PM <sub>2.5</sub>	<0.03	<0.05
		ZnO	<0.01	<0.02
		Zn	0.003	<0.005
		ZnCl <sub>2</sub>	0.002	0.004
		NH <sub>3</sub>	<0.001	<0.001
		NH <sub>4</sub> Cl	0.036	<0.07
BGHSEE-1	North Baghouse Stack  (42' North Zinc Kettle and 45' North Zinc Kettle)	PM	0.09	0.12
		PM <sub>10</sub>	0.09	0.12
		PM <sub>2.5</sub>	0.04	0.06
		ZnO	0.013	0.02
		Zn	0.004	<0.01
		ZnCl <sub>2</sub>	0.004	0.005
		NH <sub>3</sub>	<0.001	0.001
		NH <sub>4</sub> Cl	0.058	<0.09
NGCS-32S	32' South Kettle Burner Stack	PM	0.05	0.10
		PM <sub>10</sub>	0.05	0.10
		PM <sub>2.5</sub>	0.05	0.10
		SO <sub>x</sub>	<0.004	<0.01
		NO <sub>x</sub>	0.59	1.29
		CO	0.49	1.08
		VOC	<0.03	0.07

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NGCS-32N	32' North Kettle Burner Stack	PM	0.05	0.10
		PM <sub>10</sub>	0.05	0.10
		PM <sub>2.5</sub>	0.05	0.10
		SO <sub>x</sub>	<0.01	<0.01
		NO <sub>x</sub>	0.59	1.29
		CO	0.49	1.08
		VOC	<0.03	0.07
NGCS-42	42' North Kettle Burner Stack	PM	0.05	0.12
		PM <sub>10</sub>	0.05	0.12
		PM <sub>2.5</sub>	0.05	0.12
		SO <sub>x</sub>	<0.01	<0.01
		NO <sub>x</sub>	0.72	1.57
		CO	0.60	1.32
		VOC	0.04	0.09
NGCS-45	45' North Kettle Burner Stack	PM	0.05	0.10
		PM <sub>10</sub>	0.05	0.10
		PM <sub>2.5</sub>	0.05	0.10
		SO <sub>x</sub>	<0.01	<0.01
		NO <sub>x</sub>	0.62	1.40
		CO	0.52	1.14
		VOC	<0.04	0.07
BOILER-1	Boiler 1 Stack	PM	0.04	0.08
		PM <sub>10</sub>	0.04	0.08
		PM <sub>2.5</sub>	0.04	0.08
		SO <sub>x</sub>	<0.01	<0.01
		NO <sub>x</sub>	0.50	1.10
		CO	0.42	0.92
		VOC	0.28	0.06
SBGFUG-1	Outdoor Dry	PM	1.28	0.70

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		PM <sub>10</sub>	0.15	0.08
		PM <sub>2.5</sub>	0.08	0.04
ZMSFUG-1	Zinc Metal Spraying (5)	PM	0.48	0.44
		PM <sub>10</sub>	0.48	0.44
		PM <sub>2.5</sub>	0.24	0.22
		NO <sub>x</sub>	3.93	3.58
		CO	0.55	0.50
		SO <sub>x</sub>	<0.01	<0.01
		VOC	0.16	0.15
BLDGFUG	Building Fugitives (5)  (1 Caustic Tank, 6 Sulfuric Acid Tanks, 2 Pre-flux Tanks, 4 Zinc Kettles, and 2 Pre-flux Tank Heaters)	PM	0.08	0.12
		PM <sub>10</sub>	0.08	0.12
		PM <sub>2.5</sub>	0.04	0.06
		ZnO	0.01	<0.02
		Zn	<0.01	<0.01
		ZnCl <sub>2</sub>	<0.01	<0.01
		NH <sub>3</sub>	<0.001	<0.002
		NH <sub>4</sub> Cl <sub>2</sub>	0.05	<0.08
		NaOH	0.05	0.22
		H <sub>2</sub> SO <sub>4</sub>	<0.13	0.55
		ZnCl <sub>2</sub> •2NH <sub>4</sub> Cl	0.24	1.05
		SO <sub>x</sub>	<0.001	<0.001
		NO <sub>x</sub>	0.15	0.07
		CO	0.12	0.06
		VOC	<0.01	<0.01
EAB	Enclosed Steel Shot Blast Filter Stack	PM	<0.0001	<0.0002
		PM <sub>10</sub>	<0.0001	<0.0002
		PM <sub>2.5</sub>	<0.0001	<0.0001
WAB	Wheelabrator Filter Stack	PM	0.10	<0.10
		PM <sub>10</sub>	0.10	<0.10

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		PM <sub>2.5</sub>	<0.02	<0.02
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- (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<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- ZnO - zinc oxide
- Zn - zinc
- ZnCl<sub>2</sub> - zinc chloride
- NH<sub>3</sub> - ammonia
- NH<sub>4</sub>Cl - ammonium chloride
- ZnCl<sub>2</sub>•2NH<sub>4</sub>Cl - zinc ammonium chloride
- NaOH - sodium hydroxide
- H<sub>2</sub>SO<sub>4</sub> - sulfuric acid
- (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: April 26, 2016