

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1147A

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)	Emission Rates *	
			lb/hr	TPY
18	Hard Lead Ventilation Baghouse Stack	PM	0.98	3.38
		PM ₁₀	0.98	3.38
		Pb	0.06	0.24
		NO _x	11.28	0.60
		SO ₂	0.04	0.17
		CO	8.26	4.26
		VOC	1.65	4.85
		Trace Compounds	0.01	0.01
21	Soft Lead Refining Baghouse Stack	PM	1.58	5.99
		PM ₁₀	1.58	5.99
		SO ₂	5.33	12.49
		NO _x	11.92	9.33
		CO	26.44	64.14
		Pb	0.17	0.38
		VOC	15.39	48.23
		HCl	0.18	0.74
		H ₂ SO ₄	0.27	1.17
		Trace Compounds	0.01	0.01
22	Specialty Alloy Baghouse Stack	PM	1.28	4.51
		PM ₁₀	1.28	4.51
		Pb	0.02	0.08
		NO _x	11.03	0.58
		SO ₂	0.42	1.00
		CO	8.08	5.00
		VOC	1.62	4.75
		Trace Metals	0.04	0.10
23	Refining Building Vacuum Stack	PM	0.21	0.56
		PM ₁₀	0.21	0.56
		Pb	0.03	0.11

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
37	Reverberatory/Blast Furnaces Fugitives Baghouse Stack	PM	8.21	30.49
		PM ₁₀	8.21	30.49
		Pb	0.16	0.39
		NO _x	0.48	2.08
		SO ₂	21.68	68.31
		CO	8.75	28.32
		VOC	15.16	45.81
		HCl	0.21	0.92
		H ₂ SO ₄	2.82	12.34
		SiO ₂	0.02	0.03
		Trace Metals	0.01	0.04
38	Reverberatory/Blast Furnaces Metallurgical Scrubber Stack	PM	4.63	19.12
		PM ₁₀	4.63	19.12
		Pb	0.64	1.62
		NO _x	14.60	59.53
		SO ₂	445.59	1199.51
		CO	298.58	1190.35
		VOC	7.61	33.32
		Cd	0.02	0.05
		SiO ₂	0.09	0.41
		HCl	0.74	3.23
		H ₂ SO ₄	4.96	21.74
		Trace Metals	0.04	0.10
45	Raw Material Storage/Shredder Baghouse Stack	PM	2.85	10.57
		PM ₁₀	2.85	10.57
		Pb	0.20	0.77
48	Battery Breaker Scrubber Stack	PM	2.45	4.68
		PM ₁₀	2.45	4.68
		Pb	0.06	0.13
		H ₂ SO ₄	0.06	0.14
48FUG	Battery Breaker Scrubber	H ₂ SO ₄	0.05	0.22
51	Sodium Bicarbonate	PM	0.17	0.75

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			lb/hr	TPY
	Filter Vent	PM ₁₀	0.17	0.75
54	Soft Lead Kettle Heating	PM	0.07	0.32
		PM ₁₀	0.07	0.32
		VOC	0.03	0.14
		NO _x	0.60	2.63
		CO	0.50	2.21
		SO ₂	<0.01	0.02
55	Hard Lead Kettle Heating	PM	0.07	0.32
		PM ₁₀	0.07	0.32
		VOC	0.03	0.14
		NO _x	0.60	2.63
		CO	0.50	2.21
		SO ₂	<0.01	0.02
44	Raw Material Storage (4)	PM	1.43	5.72
		PM ₁₀	0.72	2.86
		Pb	0.03	0.11
10 and 35	Furnace Fugitives (4)	PM	1.83	8.00
		PM ₁₀	1.83	8.00
		Pb	0.27	1.20
		Cd	0.01	0.04
		Trace Metals	<0.01	<0.04
36	Refining/Casting (4)	PM	0.03	0.10
		PM ₁₀	0.03	0.10
		Pb	<0.01	<0.01
		Trace Metals	<0.01	<0.01
52	Slag Handling (4)	PM	0.07	0.31
		PM ₁₀	0.07	0.31
		Pb	0.01	0.05
		Trace Metals	<0.01	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
41, 42, and 43	Vehicle Traffic (4)	PM	--	0.63
		PM ₁₀	--	0.31
		Pb	--	0.31
53	Material Handling (4)	PM	4.51	1.38
		PM ₁₀	0.45	0.14
		Pb	0.32	0.10
39	Slag Fixation Baghouse Stack	PM	1.71	3.12
		PM ₁₀	1.71	3.12
		Pb	0.12	0.11
		Al	0.05	0.10
49	Reagent Silo No.1 Baghouse Stack	PM	0.36	0.38
		PM ₁₀	0.36	0.38
50	Reagent Silo No. 2 Baghouse Stack	PM	0.36	0.38
		PM ₁₀	0.36	0.38

(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.

Pb - lead and lead compounds as lead

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

HCl - hydrochloric acid mist/fumes

H₂SO₄ - sulfuric acid mist/fumes

SiO₂ - silica

Cd - cadmium and cadmium compounds as cadmium

Al - aluminum

Trace Compounds

Trace Metals

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year

Maximum Allowable Molten Lead Production Rates:

Reverberatory Furnace: 20 Tons/hour

Blast Furnace: 12 Tons/hour

Combined Maximum Molten Lead Production:

400 Tons/day and 72,000 Tons/year

Dated January 14, 2003