

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 40280

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**
SITE	Stockpile and Truck Traffic (4)	PM (Chrome)	0.016	0.071
		PM ₁₀ (Chrome)	5.0E-5	2.2E-4
		PM (Manganese)	0.021	0.092
		PM ₁₀ (Manganese)	3.6E-5	1.6E-4
		PM (Pig Iron)	0.052	0.228
		PM ₁₀ (Pig Iron)	1.6E-4	7.1E-4
		PM (Ferro Silicon)	0.052	0.228
		PM ₁₀ (Ferro Silicon)	1.6E-4	7.1E-4
		PM (Stone Agg)	0.002	0.007
		PM ₁₀ (Stone Agg)	0.001	0.003
S-1	Screening (4)	PM (Chrome)	0.070	0.001
		PM ₁₀ (Chrome)	2.2E-4	4.2E-6
		PM (Manganese)	0.092	0.002
		PM ₁₀ (Manganese)	1.6E-4	3.7E-6
		PM (Pig Iron)	0.223	4.6E-4
		PM ₁₀ (Pig Iron)	6.9E-4	1.4E-6
		PM (Ferro Silicon)	0.223	0.001
		PM ₁₀ (Ferro Silicon)	6.9E-4	3.8E-6
C-1	Crusher (4)	PM (Chrome)	8.7E-4	3.1E-7
		PM ₁₀ (Chrome)	2.7E-6	1.0E-8
		PM (Manganese)	0.012	9.6E-5
		PM ₁₀ (Manganese)	2.0E-6	2.0E-8
		PM (Ferro Silicon)	0.003	7.6E-6
		PM ₁₀ (Ferro Silicon)	8.7E-6	2.4E-8
B-1	Bagging (4)	PM (Manganese)	0.008	3.0E-5
		PM ₁₀ (Manganese)	1.4E-5	5.0E-8
		PM (Calcium Silicon)	0.020	4.9E-5
		PM ₁₀ (Calcium Silicon)	6.1E-5	1.5E-7
		PM (Vanadium)	0.020	7.6E-6
		PM ₁₀ (Vanadium)	6.1E-5	1.6E-4

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	
	TPY**			
B-2	Boxing (4)	PM (Chrome)	0.046	0.003
		PM ₁₀ (Chrome)	1.4E-4	8.3E-6
		PM (Manganese)	0.061	0.002
		PM ₁₀ (Manganese)	1.0E-4	2.7E-6
		PM (Pig Iron)	0.147	3.7E-4
		PM ₁₀ (Pig Iron)	4.6E-4	1.2E-6
		PM (Ferro Silicon)	0.147	0.002
		PM ₁₀ (Ferro Silicon)	4.6E-4	6.6E-6
BACKHOE	Ferrous Loading/Unloading (4)	PM (Chrome)	0.003	9.5E-5
		PM ₁₀ (Chrome)	1.1E-5	2.9E-7
		PM (Manganese)	0.005	8.4E-4
		PM ₁₀ (Manganese)	7.7E-6	1.4E-6
		PM (Pig Iron)	0.011	0.001
		PM ₁₀ (Pig Iron)	3.4E-5	3.8E-6
		PM (Ferro Silicon)	0.011	7.1E-5
		PM ₁₀ (Ferro Silicon)	3.4E-5	2.2E-7
		PM (Stone Agg)	0.011	1.3E-4
		PM ₁₀ (Stone Agg)	0.006	6.4E-5
BACKHOE	Ammonia Sulfate Loading and Unloading (4)	PM	1.02	0.045
		PM ₁₀	0.51	0.23
BACKHOE	Lime Loading/Unloading (4)	PM	0.94	0.57
		PM ₁₀	0.47	0.29
F-1	1,000 Gallon Tank Fuel	VOC	<0.001	<0.001
F-2	500 Gallon Tank Fuel	VOC	<0.001	<0.001

- (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 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.

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

(4) Fugitive emissions are an estimate only.

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

_____Hrs/day _____Days/week _____Weeks/year or _____Hrs/year

- ** Compliance with annual emission limits is based on a rolling 12-month period.

Material	Unloaded	Crushed	Screened	Bagged	Boxed	Loaded
Pig Iron	37,500	-	825	--	150	37,350
Manganese	63,500	1,600	9,450	30	1,570	61,900
NH ₂ SO ₄	15,000	-	-	-	-	15,000
Fe Chrome	9,500	970	7,700	--	3,475	6,025
Fe Silicon	2,200	545	2,200		860	1,340
Stone Agg	4,000	-	-	-	--	4,000
Ca Silicon	20	-	-	20	-	--
Vanadium	65	-	-	65	-	--
Totals tpy	131,785	3,115	20,175	115	6,055	125,615
Hrly, tph	170	320	4	30	200	