Emission Sources - Maximum Allowable Emission Rates

Permit Number 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, 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 (5) *	
			lbs/hour	TPY **
SITE-1	Stockpile (4)	Chrome PM	1.7E-2	5.9E-2
		Chrome PM_{10}	8.6E-3	3.0E-2
		Manganese PM	2.3E-2	7.8E-2
		Manganese PM_{10}	1.1E-2	3.9E-2
		Pig Iron PM	8.3E-2	2.9E-1
		Pig Iron PM_{10}	4.1E-2	1.4E-1
		Ferro Silicon PM	5.5E-2	1.9E-1
		Ferro Silicon PM_{10}	2.7E-2	9.5E-2
		Stone Agg. PM	2.0E-3	7.0E-3
		Stone Agg. PM_{10}	1.0E-3	3.0E-3
		Scrap Metal PM	8.3E-2	3.6E-1
		Scrap Metal PM_{10}	4.1E-2	1.8E-1
		Alumina Slag PM	8.3E-2	3.6E-1
		Alumina Slag PM_{10}	4.1E-2	1.8E-1
		Magnetite PM	5.1E-1	6.4E-1
		Magnetite PM_{10}	2.5E-1	3.2E-1
		Calcium Silicon PM	< 0.001	< 0.001
		Calcium Silicon PM_{10}	< 0.001	< 0.001
		Ceramic Furn. Slag PM	2.3E-3	9.9E-3
		Ceramic Furn. Slag PM_{10}	1.1E-3	5.0E-3
S-1	Screening (4)	Chrome PM	1.0E-1	8.8E-3
		Chrome PM_{10}	3.6E-2	3.1E-3
		Manganese PM	3.7E-5	1.5E-6
		Manganese PM_{10}	1.8E-5	7.1E-7
		Pig Iron PM	5.0E-2	1.5E-3
		Pig Iron PM_{10}	1.7E-2	5.2E-4

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		Ferro Silicon PM	3.3E-1	4.4E-3
		Ferro Silicon PM_{10}	1.2E-1	1.5E-3
C-1	Crusher (4)	Chrome PM	2.9E-3	8.7E-5
		Chrome PM_{10}	1.4E-3	4.1E-5
		Manganese PM	3.9E-3	1.5E-4
		Manganese PM_{10}	1.8E-3	7.3E-5
		Ferro Silicon PM	4.7E-3	3.0E-5
		Ferro Silicon PM_{10}	2.2E-3	1.4E-5
B-1	Bagger (4)	Chrome PM	2.5E-5	3.1E-7
		Chrome PM_{10}	9.1E-6	1.1E-7
		Manganese PM	2.3E-6	3.8E-8
		Manganese PM_{10}	1.1E-6	1.8E-8
		Ferro Silicon PM	4.0E-5	10.0E-7
		Ferro Silicon PM_{10}	1.5E-5	3.7E-7
		Calcium Silicon PM	2.4E-4	2.7E-6
		Calcium Silicon PM_{10}	8.8E-5	9.9E-7
		Ferro Molybdenum PM	8.0E-5	5.4E-6
		Ferro Molybdenum PM_{10}	2.9E-5	2.0E-6
		Nickel PM	2.0E-7	4.8E-9
		Nickel PM_{10}	9.6E-8	2.3E-9
		Vanadium PM	2.4E-4	8.6E-6
		Vanadium PM_{10}	8.8E-5	3.1E-6
B-2	Boxing (4)	Chrome PM	1.9E-4	1.1E-5
		Chrome PM_{10}	6.9E-5	4.0E-6
		Calcium Silicon PM	2.4E-4	4.8E-6
		Calcium Silicon PM_{10}	8.8E-5	1.8E-6
		Manganese PM	2.8E-6	1.4E-7
		Manganese PM_{10}	1.3E-6	6.7E-8
		Pig Iron PM	9.0E-4	7.5E-6
		Pig Iron PM_{10}	3.3E-4	2.8E-6
		Ferro Molybdenum PM	8.0E-5	1.5E-6
		Ferro Molybdenum PM_{10}	2.9E-5	1.5E-6
		Ferro Silicon PM	4.0E-4	6.0E-5

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		Ferro Silicon PM_{10}	1.5E-4	2.2E-5
		Nickel PM	2.0E-7	4.8E-9
		Nickel PM_{10}	9.6E-8	2.3E-9
		Vanadium PM	2.4E-4	8.6E-6
		Vanadium PM_{10}	8.8E-5	3.1E-6
BACKHOE-1	Ferrous Loading and Unloading	Chrome PM	9.8E-4	4.8E-5
		Chrome PM_{10}	4.7E-4	2.3E-5
		Manganese PM	1.5E-3	1.8E-4
		Manganese PM_{10}	7.1E-4	8.6E-5
		Pig Iron PM	1.8E-3	2.2E-4
		Pig Iron PM_{10}	8.4E-4	1.1E-4
		Ferro Molybdenum PM	1.8E-6	7.7E-8
		Ferro Molybdenum PM_{10}	8.5E-7	3.7E-8
		Ferro Silicon PM	1.6E-3	7.7E-5
		Ferro Silicon PM_{10}	7.5E-4	3.6E-5
		Nickel PM	4.0E-7	9.6E-9
		Nickel PM_{10}	1.9E-7	4.6E-9
		Scrap Metal PM	9.8E-4	1.8E-4
		Scrap Metal PM_{10}	4.6E-4	8.6E-5
		Magnetite PM	7.6E-2	3.4E-3
		Magnetite PM_{10}	3.6E-2	1.6E-3
BACKHOE-2	Non-Ferrous Loading and Unloading	Ammonia Sulfate PM	1.3E-1	3.9E-2
		Ammonia Sulfate PM_{10}	6.3E-2	1.9E-2
		Alumina Slag PM	1.8E-3	9.1E-5
		Alumina Slag PM_{10}	8.6E-4	4.3E-5
		Anthracite PM	1.3E-1	2.7E-3
		Anthracite PM_{10}	6.0E-1	1.3E-3
		Calcium Phosphate PM	1.7E-2	2.5E-4
		Calcium Phosphate PM_{10}	7.9E-3	1.2E-4
		Calcium Silicon PM	2.3E-3	1.8E-6
		Calcium Silicon PM_{10}	1.1E-3	8.4E-7
		Diammonium Phos. PM	2.1E-1	1.3E-3

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		Diammonium Phos. PM_{10}	9.9E-2	5.9E-4
		Ceramic Furn. Slag PM	7.7E-4	6.9E-5
		Ceramic Furn. Slag PM_{10}	2.4E-4	3.3E-5
		Lime PM	9.4E-1	5.7E-1
		Lime PM_{10}	4.7E-1	2.9E-1
		Potash PM	1.8E-1	9.0E-3
		Potash PM_{10}	9.0E-2	4.5E-3
		Stone Agg. PM	1.1E-2	1.3E-4
		Stone Agg. PM_{10}	6.0E-3	6.4E-5
		Synthetic Gypsum PM	1.3E-1	3.1E-2
		Synthetic Gypsum PM_{10}	5.9E-2	1.5E-2
		Urea PM	< 0.001	< 0.001
		Urea PM_{10}	< 0.001	< 0.001
		Vanadium PM	1.2E-3	5.5E-4
		Vanadium PM_{10}	1.2E-6	5.5E-7
		Vermiculite PM	1.50	2.3E-2
		Vermiculite PM_{10}	7.1E-1	1.1E-2
F-1	1000 Gallon Fuel Tank	VOC	1.0E-3	1.0E-3
F-2	500 Gallon Fuel Tank	VOC	1.0E-3	1.0E-3

(1) Emission point identification - either specific equipment designation or emission point number (EPN) from plot plan.
(2) Specific point source name. For fugitive sources, use area name or fugitive source name.
(3) PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
(4) Fugitive emissions are an estimate only.

(5) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

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

9 Hrs/day 6 Days/week 52 Weeks/year or 2,808 Hrs/year

24 Hrs/day 7 Days/week 52 Weeks/year or 8,760 Hrs/year for stockpile and fuel tanks

Emission Sources - Maximum Allowable Emission Rates

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

Date: March 22, 2013