

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 87155L001

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 (7) *	
			lb/hr	TPY
1,2,4,5,7,8,10,11, 13,14,16,17,19,20, 22,23,25,26, and LDG	Material Handling (4)	PM	0.57	0.47
		PM ₁₀	0.21	0.17
3	Crusher 1 (4)	PM	0.24	0.24
		PM ₁₀	0.11	0.11
6	Screen 1 (4)	PM	0.44	0.44
		PM ₁₀	0.15	0.15
9	John Deere 6081AF001 (275 hp) Diesel Engine (5)	NO _x	3.64	5.68
		CO	0.17	0.27
		SO ₂	0.56	0.88
		PM ₁₀	0.05	0.08
		VOC	0.17	0.27
12	Crusher 2 (4)	PM	0.24	0.24
		PM ₁₀	0.11	0.11
15	Screen 2 (4)	PM	0.44	0.44
		PM ₁₀	0.15	0.15
18	Cummins QSC280/3200 (280 hp) Diesel Engine (5)	NO _x	2.41	3.77
		CO	0.35	0.54
		SO ₂	0.57	0.90
		PM ₁₀	0.06	0.09
		VOC	0.07	0.12

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates (7) *	
			lb/hr	TPY
21	Crusher 3 (4)	PM	0.24	0.12
		PM ₁₀	0.11	0.05
24	Screen 3 (4)	PM	0.44	0.22
		PM ₁₀	0.15	0.07
27-31	Tanks (4)	VOC	<0.01	0.02
32	Perkins England (102 hp) (3181A081) Diesel Engine (5)	NO _x	3.16	4.94
		CO	0.68	1.06
		SO ₂	0.21	0.33
		PM ₁₀	0.22	0.35
		VOC	0.25	0.39
33-35	Deutz BF4M 2012C (100 hp) Diesel Engines (5)	NO _x	3.29	5.15
		CO	0.41	0.64
		SO ₂	0.62	0.96
		PM ₁₀	0.05	0.08
		VOC	0.07	0.12
36	CAT-3116 (160 hp) Diesel Engine (5)	NO _x	4.96	7.75
		CO	1.07	1.67
		SO ₂	0.33	0.51
		PM ₁₀	0.35	0.55
		VOC	0.40	0.62
STK	Stockpiles (4)(6)	PM	-.--	4.96
		PM ₁₀	-.--	2.48

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- (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 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.
NO_x - nitrogen oxides
CO - carbon monoxide
SO₂ - sulfur dioxide
VOC - volatile organic compounds
- (4) Fugitive emissions are an estimate only.
- (5) Generator emissions based on 3,125 hours of operation per year per engine.
- (6) Based on 2 acres of active stockpiles and 8 acres of inactive stockpiles.
- (7) 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 and production rates:

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

Crusher 1	200 Tons per hour	400,000 Tons per year.
Crusher 2	200 Tons per hour	400,000 Tons per year
Crusher 3	200 Tons per hour	200,000 Tons per year
Facility	600 Tons per hour	1,000,000 Tons per year

Date: March 27, 2019