

Emission Sources - Maximum Allowable Emission Rates

Permit Number 171383

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 (7)	
			lbs/hour	TPY (4)
B1	Boiler No. 1 Stack (60.27 MMBtu/hr) (Natural gas)	PM	0.45	--
		PM ₁₀	0.45	--
		PM _{2.5}	0.45	--
		SO ₂	0.04	--
		NO _x	0.63	--
		CO	2.26	--
		VOC	0.22	--
B2	Boiler No. 2 Stack (60.27 MMBtu/hr) (Natural gas)	PM	0.45	--
		PM ₁₀	0.45	--
		PM _{2.5}	0.45	--
		SO ₂	0.04	--
		NO _x	0.63	--
		CO	2.26	--
		VOC	0.22	--
B3	Boiler No. 3 Stack (60.27 MMBtu/hr) (Natural gas)	PM	0.45	--
		PM ₁₀	0.45	--
		PM _{2.5}	0.45	--
		SO ₂	0.04	--
		NO _x	0.63	--
		CO	2.26	--
		VOC	0.22	--
B4	Boiler No. 4 Stack (60.27 MMBtu/hr) (Natural gas)	PM	0.45	--
		PM ₁₀	0.45	--
		PM _{2.5}	0.45	--
		SO ₂	0.04	--
		NO _x	0.63	--
Project Number: 351945				

Emission Sources - Maximum Allowable Emission Rates

		CO	2.26	--
		VOC	0.22	--
	Total Annual Emissions from Natural Gas (Boiler Nos. B1, B2, B3, B4)	PM	--	2.63
		PM ₁₀	--	2.63
		PM _{2.5}	--	2.63
		SO ₂	--	0.21
		NO _x	--	3.68
		CO	--	13.13
		VOC	--	1.26
A1	Packed bed Scrubber No. 1 Stack (Room air and Meat and Bone Meal Hammermills 1 and 2)	PM	0.01	<0.01
		PM ₁₀	0.01	<0.01
		PM _{2.5}	<0.01	<0.01
A2	Packed Bed Scrubber No. 2 Stack (Room air, Blood System Hammermill, and Blood Dryer)	PM	1.77	3.30
		PM ₁₀	1.77	3.30
		PM _{2.5}	0.31	0.58
		SO ₂	<0.01	<0.01
		NO _x	0.22	0.41
		CO	1.77	3.32
		VOC	0.03	0.06
		H ₂ S	0.11	0.21
		NH ₃	0.86	1.61
		Odor (6)	--	--
BF1	Blood Meal Bin Vent Filter Stack No. 1	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
BF2	Blood Meal Bin Vent Filter Stack No. 2	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
LO1 Project Number: 351945	Truck Loadout (5)	PM	0.02	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01

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F1	Lagoon Process Flare with Propane Pilot	SO ₂	73.23	98.71
		NO _x	3.64	6.87
		CO	31.07	58.20
		VOC	<0.01	0.01
		H ₂ S	0.80	1.07
FUG1	Biogas System Fugitives (5)	H ₂ S	<0.01	0.01

- (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_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 H₂S - hydrogen sulfide
 NH₃ - ammonia
- (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) Odors shall be maintained at a minimum level.
- (7) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.
- (8) Quantified VOCs are products of natural gas combustion only.

Date: July 21, 2023