

Emission Sources - Maximum Allowable Emission Rates

Permit Number 112089

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	
			lbs/hour	TPY (4)
T-05	Tank 5 Oil-based Mud	VOC	0.16	<0.01
T-06	Tank 6 Oil-based Mud	VOC	0.16	<0.01
T-07	Tank 7 Oil-based Mud	VOC	0.16	<0.01
MIX2LOAD	Liquid Loading of Mud/Mix	VOC	0.12	<0.01
HOP1LOAD	Hopper 1 Water-based Mud Dry Additives Loading	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
HOP2LOAD	Hopper 2 Oil-based Mud Dry Additives Loading	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
BAGDC-1	Dry Bulk Additives Loading from Silos Controlled by Baghouse DC-1	PM	0.10	<0.01
		PM ₁₀	0.04	<0.01
		PM _{2.5}	0.04	<0.01
BAGDC-2	Dry Bulk Additives Loading from Silos Controlled by Baghouse DC-2	PM	0.08	<0.01
		PM ₁₀	0.05	<0.01
		PM _{2.5}	0.05	<0.01
FUG	Facility Piping Fugitives (5)	VOC	1.20	5.27

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ENG1-BAT	John Deere Engine Tier IV - BAT	NO _x	0.16	0.72
		CO	1.44	6.30
		SO ₂	0.09	0.42
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
		VOC	0.08	0.34
ENG2-JD	John Deere Engine Tier IV - Oil-based Mud Blending	NO _x	0.16	0.72
		CO	1.44	6.30
		SO ₂	0.09	0.42
		PM	0.01	0.04
		PM ₁₀	0.01	0.04
		PM _{2.5}	0.01	0.04
		VOC	0.08	0.34
ENG3-JD	John Deere Engine - Water-based Mud Blending	NO _x	2.30	10.08
		CO	2.01	8.82
		SO ₂	0.10	0.45
		PM	0.12	0.50
		PM ₁₀	0.12	0.50
		PM _{2.5}	0.12	0.50
		VOC	0.86	3.79

(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.

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- (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
- (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.

Date: May 13, 2016