Emission Sources - Maximum Allowable Emission Rates

Permit Number 3338A

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)
2	580-HP White Superior 8G825 Engine (6)	CO	3.84	16.80
		NO_x	2.56	11.20
		PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
		SO_2	0.01	0.01
		VOC	0.20	0.85
3	580-HP White Superior 8G825 Engine (6)	CO	3.84	16.80
		NO_x	2.56	11.20
		PM	0.09	0.38
		PM_{10}	0.09	0.38
		$PM_{2.5}$	0.09	0.38
		SO_2	0.01	0.01
		VOC	0.20	0.85
7	300-HP Waukesha L3711 Engine (6)	CO	0.66	2.90
		NO_x	13.23	57.94
		PM	0.05	0.22
		PM_{10}	0.05	0.22
		$PM_{2.5}$	0.05	0.22
		SO_2	0.01	0.01
		VOC	0.32	1.39
8	175-HP Caterpillar G342NA Engine (6)	CO	4.55	

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		NO_x	4.36	
		PM	0.03	
		PM_{10}	0.03	
		$PM_{2.5}$	0.03	
		SO_2	0.01	
		VOC	0.05	
9	175-HP Caterpillar G342NA Engine (6)	CO	4.55	
		NO_x	4.36	
		PM	0.03	
		PM_{10}	0.03	
		$PM_{2.5}$	0.03	
		SO_2	0.01	
		VOC	0.05	
10	175-HP Caterpillar G342NA Engine (6)	CO	4.55	
		NO_x	4.36	
		PM	0.03	
		PM_{10}	0.03	
		$PM_{2.5}$	0.03	
		SO_2	0.01	
		VOC	0.05	
	175-HP Caterpillar G342NA Engine Annual Cap (7)	CO		39.88
		NO_x		38.20
		PM		0.24
		PM_{10}		0.24
		$PM_{2.5}$		0.24
		SO_2		0.02
		VOC		0.42
11	Hot Oil Heater	CO	0.77	3.38
		NO_x	0.92	4.03

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		PM	0.07	0.31
		PM_{10}	0.07	0.31
		$PM_{2.5}$	0.07	0.31
		SO_2	0.01	0.03
		VOC	0.05	0.22
13	Process flare	NO_x	2.91	12.75
		CO	5.81	25.45
		VOC	1.04	4.55
		SO_2	0.05	0.21
		H_2S	0.01	0.01
15	Slop oil tank	VOC	0.54	1.86
16	Wastewater tank	VOC	0.24	0.01
18	Truck loading losses	VOC	51.71	0.81
19	Zink Thermal Oxider Vapor Combustor (ZTO VCU)	NO_x	0.08	0.35
		CO	0.59	2.60
		VOC	0.03	0.13
		SO_2	227.40	996.05
		H_2S	0.22	1.06
20	Gun Barrel Tank	VOC	50.01	4.33
14	Process Fugitives (5)	VOC	3.20	14.02
		H2S	0.18	0.77

(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
SO_2 - sulfur dioxide
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
$PM_{2.5}$ - particulate matter equal to or less than 2.5 microns in diameter
CO - carbon monoxide
H_2S - hydrogen sulfide

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(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) VOC emissions include formaldehyde.
(7) Total annual emissions from EPN 8 through 10 are from any two of the three Caterpillar G342NA engines operating at any one time.

Date: May 10, 2016