Emission Sources - Maximum Allowable Emission Rates

Permit Number 83822

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)
MSS-QE1E-VAC	QE-1 East Vacuum Trucks	VOC	1.01	--
		CO	<0.01	--
		NO_x	<0.01	--
		PM	<0.01	--
		PM_{10}	<0.01	--
		$PM_{2.5}$	<0.01	--
MSS-QE1W-VAC	QE-1 West Vacuum Trucks	VOC	1.01	--
		CO	<0.01	--
		NO_x	<0.01	--
		PM	<0.01	--
		PM_{10}	<0.01	--
		$PM_{2.5}$	<0.01	--
MSS-Q1-VAC	Q-1 Vacuum Trucks	VOC	1.18	--
MSS-ABIII-VAC	ABIII Vacuum Trucks	VOC	1.18	--
		CO	<0.01	--
		NO_x	<0.01	--
		PM	<0.01	--
		PM_{10}	<0.01	--
		$PM_{2.5}$	<0.01	--
MSS-QE1E-VAC, MSS-QE1W-VAC, MSS-Q1-VAC, and MSS-ABIII-VAC	Annual Vacuum Truck Limit (6)	VOC	--	0.10
		CO	--	0.13
		NO_x	--	0.22

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		PM	--	0.01
		PM_{10}	--	0.01
		$PM_{2.5}$	--	0.01
MSS-QE1E-FRAC	QE-1 East Frac Tanks	VOC	4.24	--
MSS-QE1W-FRAC	QE-1 West Frac Tanks	VOC	4.24	--
MSS-Q1-FRAC	Q-1 Frac Tanks	VOC	4.24	--
MSS-ABIII-FRAC	ABIII Frac Tanks	VOC	4.24	--
MSS-QE1E-FRAC, MSS-QE1W-FRAC, MSS-Q1-FRAC, and MSS-ABIII-FRAC	Annual Frac Tank Limit (7)	VOC	--	0.24
MSS-QE1E-RM	QE-1 East Routine Maintenance	VOC	0.16	<0.01
MSS-QE1W-RM	QE-1 West Routine Maintenance	PM	0.08	<0.01
		PM_{10}	0.08	<0.01
		$PM_{2.5}$	0.08	<0.01
		VOC	3.51	0.01
		NH3	<0.01	<0.01
MSS-QE1-MWW	QE-1 Maintenance Wastewater	VOC	0.03	0.01
MSS-QE1-VC	QE-1 Vessel Clearing	VOC	368.56	0.18
MSS-QE1E-TK	QE-1 East Tank - MSS	CO	1.21	0.02
		NO_X	2.09	0.03
		VOC	17.24	0.68
		PM	0.11	<0.01
		PM_{10}	0.11	<0.01
		$PM_{2.5}$	0.11	<0.01
MSS-QE1W-TK	QE-1 West Tank - MSS	CO	0.83	0.15
		NO_X	1.45	0.25
		VOC	134.06	1.03
		PM	0.08	0.04

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		PM_{10}	0.08	0.04
		$PM_{2.5}$	0.08	0.04
MSS-Q1-RM	Q-1 Routine Maintenance	VOC	0.25	<0.01
MSS-Q1-MWW	Q-1 Maintenance Wastewater	VOC	1.01	0.01
MSS-Q1-VC	Q-1 Vessel Clearing	VOC	36.95	0.07
MSS-ABIII-RM	AB-III Routine Maintenance	VOC	7.19	0.01
MSS-ABIII-MWW	AB-III Maintenance Wastewater	VOC	0.72	0.01
MSS-ABIII-VC	AB-III Vessel Clearing	VOC	15.96	0.14
MSS-ABIII-TK	AB-III Tank MSS	CO	0.40	0.04
		NO_X	0.70	0.06
		VOC	26.07	0.18
		PM	0.04	<0.01
		PM_{10}	0.04	<0.01
		$PM_{2.5}$	0.04	<0.01
L3FLARE	AB-III Tank Flare	CO	357.05	5.44
		NO_X	69.31	1.06
		VOC	457.00	6.95
		SO_2	0.18	<0.01
QE3050B	ARU Flare	CO	175.43	11.03
		NO_X	36.00	2.21
		VOC	155.47	5.66
		SO_2	0.05	0.01
QE8050B	Elevated Flare	CO	4065.48	70.50
		NO_X	808.02	14.45
		VOC	2250.00	27.82
		SO_2	79.13	2.34
QE1Furnaces	Furnace 1-9	CO	138.84	0.42

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		NO_X	161.20	0.48
QE1Boilers	Boiler A & B	CO	60.28	0.18
		NO_X	65.00	0.20
UTBLR	Utility Boiler G & H	CO	160.00	1.50
		NO_X	160.00	1.50

(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) CO - carbon monoxide
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
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
(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) Annual emission cap for emissions from all vacuum trucks.
(7) Annual emission cap for emissions from all frac tanks.

Date: June 30, 2022