Emission Sources - Maximum Allowable Emission Rates

Permit Number 165444

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)
FL-1	Flare (Routine)	VOC	15.30	--
		NO_x	2.37	--
		CO	12.20	--
		SO_2	0.06	--
FL-1	Flare (MSS)	VOC	437.79	--
		NO_x	33.47	--
		CO	172.41	--
		SO_2	0.06	--
FL-1	Flare (Routine and MSS) – Annual Emissions	VOC	--	18.33
		NO_x	--	2.29
		CO	--	11.83
		SO_2	--	0.05
TO-1	Thermal Oxidizer	VOC	1.25	3.35
		NO_x	1.86	5.04
		CO	2.55	6.92
		PM	0.23	0.63
		PM_{10}	0.23	0.63
		$PM_{2.5}$	0.23	0.63
		SO_2	0.21	0.50
BLR-1	Boiler 1 (ETE)	VOC	1.20	3.74
		NO_x	4.52	14.02
		CO	11.79	18.29
		PM	2.26	7.01
		PM_{10}	2.26	7.01

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		$PM_{2.5}$	2.26	7.01
		SO_2	1.59	4.93
		NH_3	1.43	4.44
BLR-1	Boiler 1 (ETE) – MSS	NO_x	13.55	--
		CO	94.29	--
BLR-2	Boiler 2 (OCU)	VOC	0.84	1.87
		NO_x	3.16	7.01
		CO	8.25	9.15
		PM	1.58	3.51
		PM_{10}	1.58	3.51
		$PM_{2.5}$	1.58	3.51
		SO_2	1.59	2.46
		NH_3	1.00	2.22
BLR-2	Boiler 2 (OCU) – MSS	NO_x	9.49	--
		CO	66.01	--
HTR-1	OCU Heater 1	VOC	0.14	0.59
		NO_x	1.00	4.38
		CO	0.92	4.38
		PM	0.19	0.82
		PM_{10}	0.19	0.82
		$PM_{2.5}$	0.19	0.82
		SO_2	0.13	0.51
HTR-2	OCU Heater 2	VOC	0.06	0.28
		NO_x	0.48	2.10
		CO	0.44	1.94
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		SO_2	0.06	0.28

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HTR-3	ETE Heater 3	VOC	0.36	1.3
		NO_x	0.4	1.44
		CO	2.44	8.87
		PM	0.50	1.8
		PM_{10}	0.50	1.8
		$PM_{2.5}$	0.50	1.8
		SO_2	0.35	1.27
HTR-4	ETE Heater 4	VOC	0.36	1.3
		NO_x	0.40	1.44
		CO	2.44	8.87
		PM	0.50	1.8
		PM_{10}	0.50	1.8
		$PM_{2.5}$	0.50	1.8
		SO_2	0.35	1.27
TK1	Tank 1	VOC	0.97	--
TK2	Tank 2	VOC	0.97	--
TK3	Tank 3	VOC	0.97	--
TK4	Tank 4	VOC	0.97	--
TKCAP A	Tank Emissions Cap A	VOC	--	2.29
TK5	Tank 5	H_2SO_4	<0.01	--
TK6	Tank 6	H_2SO_4	<0.01	--
TK7	Tank 7	H_2SO_4	<0.01	--
TKCAP B	Tank Emissions Cap B	H_2SO_4	--	<0.01
TK8	Tank 8	VOC	0.81	0.51
TK9	Tank 9	VOC	<0.01	<0.01
CT-1	Cooling Tower 1	VOC	2.80	6.14
		PM	0.88	3.84
		PM_{10}	0.27	1.18

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		$PM_{2.5}$	<0.01	<0.01
CT-2	Cooling Tower 2	VOC	1.00	2.19
		PM	0.31	1.37
		PM_{10}	0.10	0.42
		$PM_{2.5}$	<0.01	<0.01
FUG	Fugitive Area (5)	VOC	3.49	15.30
		NH_3	0.02	0.08
		SO_2	0.37	1.63
		H_2SO_4	0.20	0.85
FWP-1	Fire Water Pump 1	VOC	3.29	0.09
		NO_x	3.29	0.09
		CO	3.34	0.09
		PM	0.16	<0.01
		PM_{10}	0.16	<0.01
		$PM_{2.5}$	0.16	<0.01
		SO_2	0.01	<0.01
FWP-2	Fire Water Pump 2	VOC	3.29	0.09
		NO_x	3.29	0.09
		CO	3.34	0.09
		PM	0.16	<0.01
		PM_{10}	0.16	<0.01
		$PM_{2.5}$	0.16	<0.01
		SO_2	0.01	<0.01
FWP-3	Fire Water Pump 3	VOC	3.29	0.09
		NO_x	3.29	0.09
		CO	3.34	0.09
		PM	0.16	<0.01
		PM_{10}	0.16	<0.01
		$PM_{2.5}$	0.16	<0.01

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		SO_2	0.01	<0.01
TRK-LD	Wastewater Truck Loading	VOC	0.39	0.05
SUMP-1	Wastewater Sump	VOC	1.08	0.27
MSS-CONT	Controlled MSS	VOC	15.52	0.12
		NO_x	7.45	0.16
		CO	14.87	0.32
		PM	0.40	0.01
		PM_{10}	0.39	0.01
		$PM_{2.5}$	0.39	0.01
		SO_2	1.46	0.02
		H_2SO_4	0.02	<0.01
MSS-ATM	Uncontrolled MSS	VOC	49.38	1.5
		SO_2	0.01	<0.01
		H_2SO_4	0.02	<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
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_2SO_4 - sulfuric acid
(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: December 9, 2021