Emission Sources - Maximum Allowable Emission Rates

Permit Number 141097

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)
HAPCAP (10)	Hazardous Air Pollutant Cap	HAPs	-	<25(total HAPS) <10 (individual HAP)
T1-150	Storage Tank	VOC	13.31	(6)
		H_2S	<0.01	(6)
T2-150	Storage Tank	VOC	13.31	(6)
		H_2S	<0.01	(6)
T3-150	Storage Tank	VOC	13.31	(6)
		H_2S	<0.01	(6)
T4-150	Storage Tank	VOC	13.31	(6)
		H_2S	<0.01	(6)
T5-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T6-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T7-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T8-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T9-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T10-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T11-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)

Emission Sources - Maximum Allowable Emission Rates

T12-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T13-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T14-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T1-350	Storage Tank	VOC	8.67	(6)
		H_2S	<0.01	(6)
T2-350	Storage Tank	VOC	8.67	(6)
		H_2S	<0.01	(6)
T3-350	Storage Tank	VOC	8.67	(6)
		H_2S	<0.01	(6)
T4-350	Storage Tank	VOC	8.67	(6)
		H_2S	<0.01	(6)
T5-350	Storage Tank	VOC	8.67	(6)
		H_2S	<0.01	(6)
T6-350	Storage Tank	VOC	8.67	(6)
		H_2S	<0.01	(6)
T7-350	Storage Tank	VOC	8.67	(6)
		H_2S	<0.01	(6)
T8-350	Storage Tank	VOC	8.67	(6)
		H_2S	<0.01	(6)
T15-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T16-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T17-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T18-150	Storage Tank	VOC	12.31	(6)

Emission Sources - Maximum Allowable Emission Rates

		H_2S	<0.01	(6)
T19-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T20-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T21-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T22-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T23-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T24-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T25-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T26-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T27-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T28-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T29-150	Storage Tank	VOC	12.31	(6)
		H_2S	<0.01	(6)
T1-75	Storage Tank	VOC	17.39	(6)
		H_2S	<0.01	(6)
T2-75	Storage Tank	VOC	17.39	(6)
		H_2S	<0.01	(6)
T3-75	Storage Tank	VOC	17.39	(6)
		H_2S	<0.01	(6)

Emission Sources - Maximum Allowable Emission Rates

T4-75	Storage Tank	VOC	17.39	(6)
		H_2S	<0.01	(6)
T5-75	Storage Tank	VOC	17.39	(6)
		H_2S	<0.01	(6)
T1-30	Storage Tank	VOC	18.40	(6)
		H_2S	<0.01	(6)
T2-30	Storage Tank	VOC	18.40	(6)
		H_2S	<0.01	(6)
T1-5	Pipeline Surge Process Vessel	VOC	67.83	0.48
		H_2S	0.09	<0.01
T2-5	Pipeline Surge Process Vessel	VOC	67.83	0.48
		H_2S	0.09	<0.01
T3-5	Pipeline Surge Process Vessel	VOC	67.83	0.48
		H_2S	0.09	<0.01
T4-5	Pipeline Surge Process Vessel	VOC	67.83	0.48
		H2S	0.09	<0.01
TKCAP (6)	Storage Tank Emissions Cap	VOC	-	46.82
		H_2S	-	0.11
DOCK1	Dock 1 Uncollected Emissions	VOC	28.2	(7)
		H_2S	0.03	(7)
DOCK2	Dock 2 Uncollected Emissions	VOC	28.2	(7)
		H_2S	0.03	(7)
DOCK3	Dock 3 Uncollected Emissions	VOC	28.2	(7)
		H_2S	0.03	(7)
DOCK4	Dock 4 Uncollected Emissions	VOC	28.2	(7)
		H_2S	0.03	(7)
LDLAND	Truck Loading Uncollected Emissions	VOC	42.36	(7)
		H_2S	0.17	(7)

Emission Sources - Maximum Allowable Emission Rates

LDLAND	Rail Car Loading Uncollected Emissions	VOC	16.92	(7)
MVCU1	Marine Loading VCU 1	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)
		PM	0.71	(7)
		PM_{10}	0.71	(7)
		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO_2	37.51	(7)
MVCU2	Marine Loading VCU 2	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)
		PM	0.71	(7)
		PM_{10}	0.71	(7)
		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO_2	37.51	(7)
MVCU3	Marine Loading VCU 3	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)
		PM	0.71	(7)
		PM_{10}	0.71	(7)
		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO_2	37.51	(7)
MVCU4	Marine Loading VCU 4	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)

Emission Sources - Maximum Allowable Emission Rates

		PM	0.71	(7)
		PM_{10}	0.71	(7)
		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO_2	37.51	(7)
MVCU5	Marine Loading VCU 5	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)
		PM	0.71	(7)
		PM_{10}	0.71	(7)
		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO_2	37.51	(7)
MVCU6	Marine Loading VCU 6	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)
		PM	0.71	(7)
		PM_{10}	0.71	(7)
		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO_2	37.51	(7)
MVCU7	Marine Loading VCU 7	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)
		PM	0.71	(7)
		PM_{10}	0.71	(7)
		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO_2	37.51	(7)

Emission Sources - Maximum Allowable Emission Rates

MVCU8	Marine Loading VCU 8	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)
		PM	0.71	(7)
		PM_{10}	0.71	(7)
		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO_2	37.51	(7)
MVCU9	Marine Loading VCU 9	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)
		PM	0.71	(7)
		PM_{10}	0.71	(7)
		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO_2	37.51	(7)
MVCU10	Marine Loading VCU 10	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)
		PM	0.71	(7)
		PM_{10}	0.71	(7)
		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO2	37.51	(7)
MVCU11	Marine Loading VCU 11	VOC	5.11	(7)
		NO_x	9.50	(7)
		CO	14.25	(7)
		PM	0.71	(7)
		PM_{10}	0.71	(7)

Emission Sources - Maximum Allowable Emission Rates

		$PM_{2.5}$	0.71	(7)
		H_2S	0.02	(7)
		SO_2	37.51	(7)
LVCU	Land Loading VCU	VOC	3.64	(7)
		NO_x	7.00	(7)
		CO	10.50	(7)
		PM	0.52	(7)
		PM_{10}	0.52	(7)
		$PM_{2.5}$	0.52	(7)
		H_2S	0.01	(7)
		SO_2	24.01	(7)
LDCAP (7)	Loading Emissions Cap	VOC	-	33.93
		NO_x	-	40.77
		CO	-	61.15
		PM	-	3.04
		PM_{10}	-	3.04
		$PM_{2.5}$	-	3.04
		H_2S	-	0.03
		SO_2	-	29.74
BLR1	Steam Boiler 1	VOC	0.13	(8)
		NO_x	1.75	(8)
		CO	2.07	(8)
		PM	0.17	(8)
		PM_{10}	0.17	(8)
		$PM_{2.5}$	0.17	(8)
		SO_2	0.02	(8)

Emission Sources - Maximum Allowable Emission Rates

BLR2	Steam Boiler 2	VOC	0.13	(8)
		NO_x	1.75	(8)
		CO	2.07	(8)
		PM	0.17	(8)
		PM_{10}	0.17	(8)
		$PM_{2.5}$	0.17	(8)
		SO_2	0.02	(8)
BLR3	Steam Boiler 3	VOC	0.13	(8)
		NO_x	1.75	(8)
		CO	2.07	(8)
		PM	0.17	(8)
		PM_{10}	0.17	(8)
		$PM_{2.5}$	0.17	(8)
		SO_2	0.02	(8)
BLR (8)	Steam Boilers Emissions Cap	VOC	-	0.94
		NO_x	-	5.78
		CO	-	15.52
		PM	-	1.30
		PM_{10}	-	1.30
		$PM_{2.5}$	-	1.30
		SO_2	-	0.12
H-1	Heater	VOC	0.08	0.35
		NO_x	0.53	2.30
		CO	0.33	1.46
		PM	0.11	0.49
		PM_{10}	0.11	0.49
		$PM_{2.5}$	0.11	0.49
		SO_2	<0.01	0.04
FWP1	Fire Water Pump	VOC	3.97	0.20

Emission Sources - Maximum Allowable Emission Rates

		NO_x	3.97	0.20
		CO	4.01	0.20
		PM	0.20	<0.01
		PM_{10}	0.20	<0.01
		$PM_{2.5}$	0.20	<0.01
		SO_2	<0.01	<0.01
FWP2	Fire Water Pump	VOC	3.97	0.20
		NO_x	3.97	0.20
		CO	4.01	0.20
		PM	0.20	<0.01
		PM_{10}	0.20	<0.01
		$PM_{2.5}$	0.20	<0.01
		SO_2	<0.01	<0.01
Sump1	Underground Sump	VOC	0.28	<0.01
		H_2S	2.55	0.01
Sump2	Underground Sump	VOC	0.28	<0.01
		H_2S	2.55	0.01
Sump3	Underground Sump	VOC	0.28	<0.01
		H_2S	2.55	0.01
Sump4	Underground Sump	VOC	0.28	<0.01
		H_2S	2.55	0.01
Sump5	Underground Sump	VOC	0.28	<0.01
		H_2S	2.55	0.01
Sump6	Underground Sump	VOC	0.28	<0.01
		H_2S	2.55	0.01
Sump7	Underground Sump	VOC	0.28	<0.01
		H_2S	2.55	0.01
Sump8	Underground Sump	VOC	0.28	<0.01
		H_2S	2.55	0.01

Emission Sources - Maximum Allowable Emission Rates

Sump9	Underground Sump	VOC	0.28	<0.01
		H_2S	2.55	0.01
T1106	Slop Tank	VOC	0.28	<0.01
		H_2S	2.55	0.01
TRKLD	Truck Slop Oil Loading	VOC	26.68	0.06
		H_2S	10.51	0.03
FUG	Fugitives	VOC	1.44	6.31
		H_2S	<0.01	0.02
TKLAND	Routine Tank Landings Fugitive Emissions	VOC	21.15	(9)
		H_2S	<0.01	(9)
TKMSS	MSS Tank Landing Fugitive Emissions	VOC	47.70	(9)
		H_2S	0.12	(9)
TKVCU1	Tank Landing VCU No. 1	VOC	4.72	(9)
		NO_x	9.50	(9)
		CO	14.25	(9)
		PM	0.71	(9)
		PM_{10}	0.71	(9)
		$PM_{2.5}$	0.71	(9)
		H_2S	0.02	(9)
		SO_2	45.79	(9)
TKVCU2	Tank Landing VCU No. 2	VOC	4.72	(9)
		NO_x	9.50	(9)
		CO	14.25	(9)
		PM	0.71	(9)
		PM_{10}	0.71	(9)
		$PM_{2.5}$	0.71	(9)
		H_2S	0.02	(9)
		SO_2	45.79	(9)
TKVCU3	Tank Landing VCU No. 3	VOC	4.72	(9)

Emission Sources - Maximum Allowable Emission Rates

		NO_x	9.50	(9)
		CO	14.25	(9)
		PM	0.71	(9)
		PM_{10}	0.71	(9)
		$PM_{2.5}$	0.71	(9)
		H_2S	0.02	(9)
		SO_2	45.79	(9)
TKVCU4	Tank Landing VCU No. 4	VOC	4.72	(9)
		NO_x	9.50	(9)
		CO	14.25	(9)
		PM	0.71	(9)
		PM_{10}	0.71	(9)
		$PM_{2.5}$	0.71	(9)
		H_2S	0.02	(9)
		SO_2	45.79	(9)
TKVCU5	Tank Landing VCU No. 5	VOC	4.72	(9)
		NO_x	9.50	(9)
		CO	14.25	(9)
		PM	0.71	(9)
		PM_{10}	0.71	(9)
		$PM_{2.5}$	0.71	(9)
		H_2S	0.02	(9)
		SO_2	45.79	(9)
TKVCUCAP (9)	Tank Landing Emissions Cap	VOC	-	3.44
		NO_x	-	6.63
		CO	-	9.93
		PM	-	0.49
		PM_{10}	-	0.49
		$PM_{2.5}$	-	0.49

Emission Sources - Maximum Allowable Emission Rates

		H_2S	-	0.03
		SO_2	-	9.68
LDMSS	Temporary product Transfer	VOC	0.51	0.48
		NO_x	1.06	0.32
		CO	1.41	0.42
		PM	0.05	0.02
		PM_{10}	0.05	0.02
		$PM_{2.5}$	0.05	0.02
		H_2S	0.51	0.01
		SO_2	0.96	0.03
VPMSS	Vessel & Piping MSS	VOC	143.05	0.48
		NO_x	1.50	0.32
		CO	2.00	0.43
		PM	0.07	0.02
		PM_{10}	0.07	0.02
		$PM_{2.5}$	0.07	0.02
		H_2S	0.73	<0.01
		SO_2	1.05	1.01
PIGMSS	Pigging MSS Emissions	VOC	2.21	0.24
		H_2S	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
SO_2 - sulfur dioxide
H_2S - Hydrogen Sulfide
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
HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
(4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.

Emission Sources - Maximum Allowable Emission Rates

(5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
(6) Combined annual emissions shall not exceed the Storage Tank Emission Cap EPN: TKCAP.
(7) Combined annual emissions shall not exceed the Loading Emission Cap EPN: LDCAP.
(8) Combined annual emissions shall not exceed the Boiler Emission Cap EPN: BLR.
(9) Combined annual emissions shall not exceed the Tank Landing Emission Cap EPN: TKVCUCAP.
(10) Combined annual hazardous air pollutant (HAP) emission rates for all EPNs authorized by this permit shall not exceed the Hazardous Air Pollutant Emission Caps EPN: HAPCAP.

Date: January 8, 2020