

Emission Sources - Maximum Allowable Emission Rates

Permit Number 56470

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)
116	Tank No. 116	VOC (7)	1.16	1.07
		Benzene	0.82	0.17
117	Tank No. 117	VOC (7)	4.71	7.67
		Benzene	0.04	0.07
130	Tank No. 130	VOC (7)	3.05	3.84
		Benzene	0.04	0.06
131	Tank No. 131	VOC (7)	8.71	26.22
		Benzene	0.07	0.22
132	Tank No. 132	VOC (7)	1.09	0.25
		Benzene	1.07	0.15
133	Tank No. 133	VOC (7)	8.71	26.57
		Benzene	0.07	0.22
134	Tank No. 134	VOC (7)	7.67	4.01
		Benzene	0.06	0.05
142	Tank No. 142	VOC (7)	3.40	10.89
		Benzene	0.03	0.11
143	Tank No. 143	VOC (7)	3.40	10.89
		Benzene	0.03	0.11
144	Tank No. 144	VOC (7)	3.40	10.89
		Benzene	0.03	0.11

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145	Tank No. 145	VOC (7)	5.96	2.69
		Benzene	0.04	0.03
146	Tank No. 146	VOC (7)	5.96	2.69
		Benzene	0.04	0.03
147	Tank No. 147	VOC (7)	4.57	2.29
		Benzene	0.03	0.03
148	Tank No. 148	VOC (7)	4.57	2.29
		Benzene	0.03	0.03
153	Tank No. 153	VOC (7)	2.59	6.18
		Benzene	0.02	0.05
116-MSS	Tank 116 MSS	VOC (7)	7.16	0.27
		Benzene	4.39	0.16
132-MSS	Tank 132 MSS	VOC (7)	5.11	0.20
		Benzene	3.14	0.12
LOADFUG	Loading Fugitives (6)	VOC	53.86	18.00
VCU1	Vapor Combustor 1	CO	25.90	-
		NO _x	18.65	-
		SO ₂	0.28	-
		VOC (7)	17.12	-
		Benzene	3.71	-
		PM	0.23	-
		PM ₁₀	0.23	-
		PM _{2.5}	0.23	-
VCU2	Vapor Combustor 2	CO	25.90	-
		NO _x	18.65	-

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		SO ₂	0.28	-
		VOC (7)	17.12	-
		Benzene	3.71	-
		PM	0.23	-
		PM ₁₀	0.23	-
		PM _{2.5}	0.23	-
VCU1/VCU2	Vapor Combustor 1 / Vapor Combustor 2	CO	-	38.76
		NO _x	-	27.91
		SO ₂	-	0.52
		VOC (7)	-	22.83
		Benzene	-	0.52
		PM	-	0.43
		PM ₁₀	-	0.43
		PM _{2.5}	-	0.43
VCU-MSS	Controlled T-116 and T-132 MSS (Degasing and Refilling)	CO	3.24	0.04
		NO _x	1.62	0.02
		SO ₂	<0.01	<0.01
		VOC (7)	5.63	0.05
		Benzene	3.25	0.03
		PM	0.09	<0.01
		PM ₁₀	0.09	<0.01
		PM _{2.5}	0.09	<0.01
FUG1	Piping Fugitives (5)	VOC (7)	2.63	11.55
		Benzene	0.56	2.43
VAC-MSS	Vacuum Truck for T- 116 and T-132 MSS	VOC (7)	0.08	<0.01

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		Benzene	0.03	<0.01
FRAC-MSS	Frac Tank for T-116 and T-132 MSS	VOC (7)	0.06	0.07
		Benzene	0.04	0.04

- (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
- 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.
- (6) LOADFUG represents the authorized uncontrolled loading of low vapor pressure products.
- (7) The VOC rates include the benzene emission rates which follow.

Date: March 26, 2014