

# Emission Sources – Maximum Allowable Emission Rates

Permit Number 21356

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
T551	IFR Tank T551 (7)	VOC	5.79	21.26
		BZ	2.24	4.70
T552	IFR Tank T552 (7)	VOC	5.79	21.26
		BZ	2.24	4.70
T554	IFR Tank T554 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T556	IFR Tank T556 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T579	IFR Tank T579 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T580	IFR Tank T580 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T581	IFR Tank T581 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T582	IFR Tank T582 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T583	IFR Tank T583 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T584	IFR Tank T584 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T585	IFR Tank T585 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T586	IFR Tank T586 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T587	IFR Tank T587 (7)	VOC	5.76	20.94
		BZ	2.25	4.54

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T588	IFR Tank T588 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T589	IFR Tank T589 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T5100	IFR Tank T5100 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T5101	IFR Tank T5101 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T5102	IFR Tank T5102 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T5103	IFR Tank T5103 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T5104	IFR Tank T5104 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T5105	IFR Tank T5105 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T5106	IFR Tank T5106 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T5107	IFR Tank T5107 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T5108	IFR Tank T5108 (7)	VOC	5.76	20.94
		BZ	2.25	4.54
T546	FR Tank T546 (7)	VOC	484.57	95.74
		BZ	0.15	0.04
T590	FR Tank T590 (7)	VOC	33.17	4.74
T591	FR Tank T591 (7)	VOC	33.17	4.74
T592	FR Tank T592 (7)	VOC	33.17	4.74
T593	FR Tank T593 (7)	VOC	33.17	4.74
T595	FR Tank T595 (7)	VOC	33.17	4.74
T596	FR Tank T596 (7)	VOC	33.17	4.74
T597	FR Tank T597 (7)	VOC	33.17	4.74
T598	FR Tank T598 (7)	VOC	33.17	4.74
T599	FR Tank T599 (7)	VOC	33.17	4.74
	Hourly and Annual Tank Group 1 Compliance Caps	VOC	2,421.22 (5)	546.26 (5)
		BZ	29.97 (5)	14.38 (5)

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100-26	IFR Tank 100-26	VOC	7.36	8.12
		BZ	0.37	0.22
100-27	IFR Tank 100-27	VOC	7.36	8.12
		BZ	0.37	0.22
100-30	IFR Tank 100-30 (7)	VOC	7.55	7.96
		BZ	0.38	0.26
100-31	IFR Tank 100-31 (7)	VOC	7.55	7.96
		BZ	0.38	0.26
150-1	IFR Tank 150-1 (7)	VOC	6.13	9.40
		BZ	0.31	0.30
150-2	IFR Tank 150-2 (7)	VOC	6.13	9.40
		BZ	0.31	0.30
150-3	IFR Tank 150-3 (7)	VOC	6.13	9.40
		BZ	0.31	0.30
150-4	IFR Tank 150-4 (7)	VOC	6.37	10.06
		BZ	0.32	0.28
150-5	IFR Tank 150-5 (7)	VOC	6.37	10.06
		BZ	0.32	0.28
150-13	IFR Tank 150-13 (7)	VOC	6.43	10.58
		BZ	0.32	0.34
150-14	IFR Tank 150-14 (7)	VOC	6.43	10.58
		BZ	0.32	0.34
150-15	IFR Tank 150-15 (7)	VOC	6.43	10.58
		BZ	0.32	0.34
	Hourly and Annual MSS Tank Compliance Caps (6)	VOC	1,959.94	146.91
		BZ	8.35	6.56
	Hourly and Annual Tank Group 2 Compliance Caps (6)	VOC (5)	2,028.35	230.11
		BZ (5)	12.38	8.28
DKFUG	Dock Area Piping Fugitives (7)(9)	VOC	0.34	2.92
		BZ	0.34	2.80
FUG2	No. 2 Station Piping Fugitives (7)(9)	VOC	0.13	1.08
		BZ	0.11	0.92
FUG3	No. 3 Station Piping Fugitives (7)(9)	VOC	0.05	0.36
		BZ	0.01	0.10
FUG4	No. 4 Station Piping Fugitives	VOC	0.04	0.28

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		BZ	0.01	0.10
FUG5	No. 5 Station Piping Fugitives (7)(9)	VOC	0.37	3.18
		BZ	0.37	3.18
FUG6	No. 6 Station Piping Fugitives (7)(9)	VOC	0.05	0.40
		BZ	0.05	0.40
FUG7	BC Manifold Piping Fugitives (7)(9)	VOC	0.04	0.34
		BZ	0.01	0.01
FUG8	Clean 44 Junction Piping Fugitives (7)(9)	VOC	0.16	1.36
		BZ	0.16	1.36
METERSTAT1	Crude Oil Meter Station Piping Fugitives (7)(9)	VOC	0.12	1.02
		BZ	0.12	1.02
	Hourly and Annual Fugitives Group 1 Compliance Caps	VOC	1.30 (5)	10.94 (5)
		BZ	1.16	0.71
FUG11	No. 8 Station Piping Fugitives (7)(9)	VOC	0.40	3.54
		BZ	0.01	0.36
FUG13	No. 10 Station Piping Fugitives (7)(9)	VOC	0.60	5.26
		BZ	0.16	0.54
DKFUG	Dock Loading Arms Expansion Piping Fugitives (7)(9)	VOC	0.18	1.58
		BZ	0.12	0.16
	Hourly and Annual Fugitives Group 2 Compliance Caps	VOC	1.18 (5)	5.19 (5)
		BZ	0.12	0.53
NVESSEL1	North Dock Marine Loading (7)	VOC	109.77	36.12
		BZ	0.05	0.14
SVESSEL1	South Dock Marine Loading (7)	VOC	109.77	36.12
		BZ	0.05	0.14
	Uncontrolled Marine Loading Compliance Caps	VOC	219.54 (5)	36.12 (5)
		BZ	0.10	0.14

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VC-1	Vapor Combustor 1	VOC	4.55	1.34
		BZ	0.18	0.07
		NO <sub>x</sub>	12.75	9.75
		CO	25.49	19.48
		PM	0.68	0.52
		PM <sub>10</sub>	0.68	0.52
		PM <sub>2.5</sub>	0.68	0.52
		H <sub>2</sub> S	0.01	0.01
		SO <sub>2</sub>	0.01	0.01
PORTVC	Portable Vapor Combustors (controlled tank degassing and refilling) (8)	VOC	22.86	---
		NO <sub>x</sub>	4.56	5.06
		CO	4.11	4.56
		PM	0.27	0.05
		PM <sub>10</sub>	0.27	0.05
		PM <sub>2.5</sub>	0.27	0.05
		H <sub>2</sub> S	0.01	0.01
		SO <sub>2</sub>	0.01	0.01
MSS-U	Uncontrolled Other MSS Activity Cap (including uncontrolled tank venting)	VOC	579.32	20.22
MSS-C	Non-Tank Controlled MSS Activity Cap (Scrubber, Carbon Absorption, or a Closed Loop Refrigerated Vapor Recovery System)	VOC	15.88	4.64

Emission Sources - Maximum Allowable Emission Rates

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. 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<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide  
CO - carbon monoxide  
PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented  
PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  
PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter  
H<sub>2</sub>S - hydrogen sulfide  
BZ - benzene
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Hourly and annual compliance caps for VOC include the respective BZ hourly and annual compliance caps.
- (6) Hourly and Annual MSS Compliance Caps for MSS emissions from all IFR tanks in this permit included in Hourly and Annual Tank Group 2 Compliance Caps.
- (7) Emission sources included in VOC and BZ hourly and annual compliance caps.
- (8) PORTVC annual VOC emissions are included under the Hourly and Annual MSS Tank Compliance Caps (146.91 tpy).
- (9) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Dated: May 2, 2018