

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 6606

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)
FWP-A	Fire Water Pump Engine (6)	CO	0.54	0.47
		NO <sub>x</sub>	3.11	2.73
		PM	0.22	0.19
		PM <sub>10</sub>	0.22	0.19
		PM <sub>2.5</sub>	0.22	0.19
		SO <sub>2</sub>	0.48	0.42
		VOC	0.06	0.05
FWP-B	Fire Water Pump Engine (6)	CO	0.54	0.47
		NO <sub>x</sub>	3.11	2.73
		PM	0.22	0.19
		PM <sub>10</sub>	0.22	0.19
		PM <sub>2.5</sub>	0.22	0.19
		SO <sub>2</sub>	0.48	0.42
		VOC	0.06	0.05
TK-28082	Fire Water Pump Fuel Tank	VOC	0.03	0.01
TK-28083	Fire Water Pump Fuel Tank	VOC	0.03	0.01
MVCU1	Marine Vapor Combustion Unit No. 1	CO	5.40	--
		H <sub>2</sub> S	0.06	--
		NO <sub>x</sub>	4.14	--
		SO <sub>2</sub>	11.40	--
		PM	1.35	--
		PM <sub>10</sub>	1.35	--
		PM <sub>2.5</sub>	1.35	--

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		VOC	3.10	--
MVCU2	Marine Vapor Combustion Unit No. 2	CO	5.40	--
		H <sub>2</sub> S	0.06	--
		NO <sub>x</sub>	4.14	--
		SO <sub>2</sub>	11.40	--
		PM	1.35	--
		PM <sub>10</sub>	1.35	--
		PM <sub>2.5</sub>	1.35	--
		VOC	3.10	--
MVCU3	Marine Vapor Combustion Unit No. 3	CO	5.40	--
		H <sub>2</sub> S	0.06	--
		NO <sub>x</sub>	4.14	--
		SO <sub>2</sub>	11.40	--
		PM	1.35	--
		PM <sub>10</sub>	1.35	--
		PM <sub>2.5</sub>	1.35	--
		VOC	3.10	--
MVCU1 / MVCU2 / MVCU3	Combined Annual Emission Limit for MVCUs	CO	--	25.20
		H <sub>2</sub> S	--	0.19
		NO <sub>x</sub>	--	19.32
		SO <sub>2</sub>	--	35.40
		PM	--	6.30
		PM <sub>10</sub>	--	6.30
		PM <sub>2.5</sub>	--	6.30
		VOC	--	10.89
TK-28063	Tank No. 28063	H <sub>2</sub> S	0.06	0.04
		VOC	4.82	5.02
TK-28064	Tank No. 28064	H <sub>2</sub> S	0.08	0.05

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		VOC	5.04	5.71
TK-28067	Tank No. 28067	H <sub>2</sub> S	0.14	0.06
		VOC	9.83	9.20
TK-28068	Tank No. 28068	H <sub>2</sub> S	0.11	0.07
		VOC	8.56	7.66
TK-28069	Tank No. 28069	H <sub>2</sub> S	0.07	0.04
		VOC	7.98	5.84
TK-28070	Tank No. 28070	H <sub>2</sub> S	0.17	0.11
		VOC	5.50	10.67
TK-28071	Tank No. 28071	H <sub>2</sub> S	0.13	0.08
		VOC	7.78	6.00
TK-28072	Tank No. 28072	H <sub>2</sub> S	0.13	0.08
		VOC	8.32	7.71
TK-28073	Tank No. 28073	H <sub>2</sub> S	0.13	0.08
		VOC	8.26	7.53
TK-28074	Tank No. 28074	H <sub>2</sub> S	0.13	0.08
		VOC	8.37	7.89
TK-28075	Tank No. 28075	H <sub>2</sub> S	0.13	0.08
		VOC	8.32	7.71
TK-28076	Tank No. 28076	H <sub>2</sub> S	0.13	0.08
		VOC	8.35	7.82
TK-28077	Tank No. 28077	H <sub>2</sub> S	0.08	0.05
		VOC	9.06	6.76
TK-28080	Tank No. 28080	H <sub>2</sub> S	0.13	0.08
		VOC	8.32	7.72
TK-28086	Tank No. 28086	H <sub>2</sub> S	0.13	0.08
		VOC	7.96	7.56
TANKGRP1	Annual Tank Emission Cap for Tanks 28063, 28064, 28067-	VOC (7)	--	83.59

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	28077, 28080, 28086			
TK-28087	Tank 28087	H <sub>2</sub> S	0.02	--
		VOC	8.66	--
TK-28088	Tank 28088	H <sub>2</sub> S	0.02	--
		VOC	8.66	--
TK-28089	Tank 28089	H <sub>2</sub> S	0.02	--
		VOC	8.66	--
TK-28090	Tank 28090	H <sub>2</sub> S	0.02	-
		VOC	8.66	-
TK-28091	Tank 28091	H <sub>2</sub> S	0.02	-
		VOC	8.66	-
TK-28092	Tank 28092	H <sub>2</sub> S	0.02	-
		VOC	8.66	-
TANKGRP2	Annual Tank Emission Cap for Tanks 28087, 28088, 28089, 28090, 28091, 28092	H <sub>2</sub> S	-	0.05
		VOC (8)	-	10.24
FUG-1	Terminal Fugitives (5)	H <sub>2</sub> S	0.02	0.02
		VOC	0.30	1.30
DOCK	Ship and Barge Loading Dock	VOC	6.38	6.36
		H <sub>2</sub> S	0.02	0.02

- (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
  - H<sub>2</sub>S - hydrogen sulfide
  - NO<sub>x</sub> - total oxides of nitrogen
  - 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
  - SO<sub>2</sub> - sulfur dioxide
  - 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.

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- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) These emissions are for only for 876 hours per engine per rolling twelve months of operation. EPN FWP-A and EPN FWP-B shall not operate simultaneously. Only one fire water pump engine may operate at any one time and for no more than 30 minutes in any one-hour period on a rolling basis.
- (7) Tank numbers TK-280 (63, 64, 67 through 77, 80 and 86) are each subject to their individually listed hourly and annual VOC emission rates. In addition, the total annual VOC emission rate from these identified floating roof storage tanks shall not exceed the listed EPN TANKGRP1 emission limits.
- (8) Tank numbers TK-280 (87 through 92) are subject to its individually listed hourly and annual H<sub>2</sub>S and VOC emission rate. The total annual H<sub>2</sub>S and VOC emission rates from these identified floating roof storage tanks shall not exceed the listed EPN TANKGRP2 emission limits.

Date: January 25, 2019