

Emission Sources - Maximum Allowable Emission Rates

Permit Number 6256A

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

This MAERT becomes effective after the completion of construction and commencement of expanded operations of the Markham Terminal as described within the permit amendment application, PI-1 dated August 30, 2019 (TCEQ Project No. 306313) and subsequent updates.

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
12	Flare 1/Temporary Flare (6)	VOC	78.72	10.71
		NO _x	22.17	3.03
		CO	88.29	12.07
10	Flare 2/Temporary Flare (6)	VOC	5.55	4.83
		NO _x	1.58	1.37
		CO	6.27	5.44
11	Flare 3/Temporary Flare (6)	VOC	5.49	5.03
		NO _x	1.56	1.42
		CO	6.21	5.66
4	Heater	VOC	0.04	0.06
		NO _x	3.53	4.80
		CO	0.88	1.20
		SO ₂	0.04	0.05
		PM	0.58	0.79
		PM ₁₀	0.58	0.79
		PM _{2.5}	0.58	0.79
5	Diesel Tank	VOC	1.15	0.01
6	Unleaded Gasoline Tank	VOC	8.22	0.38
100	Fugitive Emissions (5)	VOC	29.12	127.54
8	E/P Analyzer Vents	VOC	0.01	0.01
9	Analyzer Vents	VOC	0.01	0.01

(1) Emission point identification - either specific equipment designation or emission point number from plot plan.

Emission Sources - Maximum Allowable Emission Rates

- (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. This footnote does not preclude the use of 30 TAC Chapter 106 as appropriate for the authorization of additional fugitive components.
- (6) Use of one temporary flare is authorized as a replacement to either Flare 1, Flare 2, or Flare 3, while down for maintenance. The temporary flare shall not simultaneously replace more than one flare.

Date: June 29, 2020

Attachment 1

Emission Sources - Maximum Allowable Emission Rates

Permit Number 6256A

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

This MAERT shall remain in effect until the completion of construction and commencement of expanded operations of the Markham Terminal as described within the permit amendment application, PI-1 dated August 30, 2019 (TCEQ Project No. 306313) and subsequent updates.

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lbs/hour	TPY (4)
12	Flare 1/Temporary Flare (6)	VOC	78.72	4.88
		NO _x	22.17	1.37
		CO	88.29	5.46
10	Flare 2/Temporary Flare (6)	VOC	5.55	4.83
		NO _x	1.58	1.37
		CO	6.27	5.44
4	Heater	VOC	0.04	0.03
		NO _x	3.55	2.00
		CO	0.89	0.50
		SO ₂	7.56	4.26
		PM	0.59	0.33
		PM ₁₀	0.59	0.33
		PM _{2.5}	0.59	0.33
5	Diesel Tank	VOC	1.15	0.01
6	Unleaded Gasoline Tank	VOC	8.22	0.38
100	Fugitive Emissions (5)	VOC	30.44	133.31
8	E/P Analyzer Vents	VOC	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

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented

Emission Sources - Maximum Allowable Emission Rates

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. This footnote does not preclude the use of 30 TAC Chapter 106 as appropriate for the authorization of additional fugitive components.
- (6) Use of a temporary flare is authorized as a replacement to Flare 1 or Flare 2, while down for maintenance.

Date: July 27, 2017