

Emission Sources - Maximum Allowable Emission Rates

Permit Number 52041

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)
26UTLFLR	Utilities Flare (9)	CO	72.43	32.52
		SO ₂	0.24	0.17
		NO _x	14.22	6.38
		VOC (8)	154.53	48.57
		HRVOC	47.61	11.90
26UTLFUG	Utilities Fugitives	VOC (8)	0.20	0.88
		HRVOC	0.20	0.88
30LRFLR	Loading Rack Flare	CO	28.51	1.66
		SO ₂	0.02	0.04
		NO _x	3.32	0.20
		VOC	93.49	0.64
47ANAL1ST	SouthAnalyzer Bldg / North Stack	VOC (8)	4.63	12.39
		HRVOC	4.63	12.39
47ANAL2ST	South Analyzer Bldg / South Stack	VOC (8)	0.73	2.10
		HRVOC	0.73	2.10
47HELD	Heavy Ends Loading	VOC	0.92	0.24
47MN528ST	Inhibitor Mix Tanks	VOC	12.02	2.28
47MT6FUG	VA Cooling Tower (5)	VOC (6)	2.35	10.30
		VOC (7) (8)	1.68	5.52
		HRVOC (7)	1.68	5.52
		PM (7)	0.33	1.44
		PM ₁₀ (7)	0.20	0.87
		PM _{2.5} (7)	< 0.01	< 0.01
47V240ST	Inhibitor Surge Tank	VOC	11.85	0.62

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47V243ST	Inhibitor Surge Tank	VOC	11.85	0.90
47V636ST/47V1296ST	Guard Beds	VOC	1.74	0.03
47VAFUG	VA Process Fugitives (5)	VOC (8)	4.63	20.39
		HRVOC	2.22	9.71
		CO	0.01	0.03
47VASTM	VA Steam Vent	VOC	3.67	4.83
47TOTE	Unloading	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
- HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10
- 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) Emission rates are effective until completion of the cooling tower cell replacement project started December 2015.
- (7) Emission rates to become effective following the cooling tower cell replacement project started December 2015 but no later than January 2018.
- (8) VOC emission rates include the ethylene HRVOC emissions.
- (9) Vinyl Acetate Unit contribution only. Emission Point is also on permits 260, 55046, and 83821.

Date: November 15, 2016