

Emission Sources - Maximum Allowable Emission Rates

Permit Number 98149

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)
Plant-MSS-1	External Floating Roof Tanks MSS Emissions	VOC	45.02	3.45
Plant-MSS-3	Frac Tanks - MSS Emissions	VOC	34.34	1.70
Plant-MSS-4	Heat Exchangers - MSS Emissions	VOC	1.46	0.02
Plant-MSS-5	Internal Floating Roof Tanks - MSS Emissions	VOC	519.20	2.12
Plant-MSS-6	Spheres - MSS Emissions	VOC	74.98	0.39
Plant-MSS-7	Towers - MSS Emissions	VOC	31.41	0.07
Plant-MSS-8	Vacuum Trucks - MSS Emissions	VOC	14.90	1.24
Plant-MSS-9	Attachment B MSS Activities	VOC	16.41	0.10
		PM	0.11	<0.01
		PM ₁₀	0.05	<0.01
		PM _{2.5}	<0.01	<0.01
Plant-MSS-10	Attachment A MSS Activities	VOC	0.85	0.65
Plant-MSS-11	Temporary Control Device - MSS Emissions	NO _x	3.28	2.13
		CO	6.43	4.50
		SO ₂	0.08	0.03
		VOC	3.30	0.17
		PM	0.26	0.18
		PM ₁₀	0.26	0.18

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		PM _{2.5}	0.26	0.18
Plant-MSS -12	Bullets	VOC	23.33	0.03
Plant-MSS -13	Poly Tank - MSS Emissions	VOC	6.17	0.03
Plant-MSS -14	Controlled Fixed Roof Tank - MSS Emissions	VOC	6.37	0.01
Plant-MSS -15	Plantwide Surface Coating	VOC	73.02	-
		Acetone	0.52	-
		PM	2.23	-
		PM ₁₀	0.20	-
		PM _{2.5}	0.20	-
Plant-MSS -16	EFR Tank Surface Coating	VOC	36.51	-
		Acetone	0.26	-
		PM	1.12	-
		PM ₁₀	0.10	-
		PM _{2.5}	0.10	-
Plant-MSS -17	Plantwide and EFR Surface Coating	VOC	-	6.28
		Acetone	-	0.10
		PM	-	0.07
		PM ₁₀	-	0.01
		PM _{2.5}	-	0.01
Plant-MSS	Plantwide Short-term Emission Rate Allowables for Individual Chemicals	1,3 butadiene	91.12	-
		butene	16.75	-
		diisobutylene	41.92	-
		dimethyl formamide	6.79	-
		ethyl tert-butyl ether	67.63	-
		ethanol	19.44	-
		furfural	3.67	-
		isobutane	50.57	-

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	isobutylene	78.34	-
	lean oil	61.60	-
	methanol	31.09	-
	methyl tert-butyl ether	95.77	-
	pentane	0.66	-
	polyisobutylene	2.86	-
	Quench oil	5.65	-
	Triethanolamine (TEA)	0.45	-
	Vinyl Acetylene	0.53	-
	Acetone	0.52	-
	Aqueous Ammonia	0.30	-

- (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
- (3) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (4) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

Date: February 24, 2015