

Emission Sources - Maximum Allowable Emission Rates

Permit Number 80493

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)
EXCH-MSS	Heat Exchanger MSS Emissions	VOC	17.35	1.81
		Benzene	0.10	0.01
SMALL-MSS	Small Equipment MSS Emissions	VOC	2.08	1.56
		Benzene	0.01	0.01
VAC-MSS	Vacuum Truck MSS Emissions	VOC	1.37	0.51
		Benzene	0.02	0.01
		NH ₃	0.01	0.01
		H ₂ S	0.01	0.01
FRAC-MSS	Frac Tank MSS Emissions	VOC	0.88	5.36
		Benzene	0.01	0.07
VACFR-MSS	Vacuum Truck/Frac Tank Cleaning MSS Emissions	VOC	2.93	0.11
		Benzene	0.05	0.01
		NH ₃	0.01	0.01
WW-MSS	Wastewater Treatment Plant MSS Activities	VOC	0.14	0.01
		Benzene	0.98	0.02
		NH ₃	0.05	0.01
		H ₂ S	0.01	0.01
TANK-MSS	Tank MSS Activities	VOC	529.27	-
		Benzene	8.07	-

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INSIG-MSS	Insignificant MSS Activities	VOC	23.82	4.15
		NOX	0.15	0.03
		SO2	0.15	0.03
		CO	0.15	0.03
		Benzene	0.01	0.01
		PM ₁₀	6.30	0.39
		PM _{2.5}	0.95	0.06
DEINV-MSS	Deinventory MSS Activities	VOC	4.11	0.16
		Benzene	0.05	0.01
FCCU-MSS	FCCU MSS Activities	CO	1,129.66	27.11
TO-MSS*	Thermal Oxidizer Controlled MSS Activities	VOC	5.21	5.70
		NO _x	6.12	0.58
		SO ₂	0.01	0.01
		CO	5.14	0.51
		Benzene	0.04	0.05
		NH ₃	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		H ₂ S	0.01	0.01

* The thermal oxidizer will control the emissions from tank MSS activities, frac tank activities, and vacuum truck activities.

- (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
 - CO - carbon monoxide
 - 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
 - NH₃ - ammonia
 - H₂S - hydrogen sulfide
- (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.

Date: June 25, 2012