

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 47170

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. 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 *	
			lb/hr	TPY**
E-1 through E-12	Thermal Treatment Units E-1 through E-12, combined)	NO _x	3.08	1.83
		CO	33.09	23.31
		PM/PM ₁₀ /PM _{2.5}	5.62	3.94
		VOC	29.82	21.16
		SO ₂	0.05	0.03
		Lead	0.06	0.04
		HCl	4.56	1.46
		Acetylene	0.019	0.006
		Aldehydes	0.31	0.22
		Benzene	0.016	0.005
		Cyclohexane	0.006	0.002
		n-Decane	0.367	0.106
		Ethylbenzene	0.011	0.004
		Ethylene	0.015	0.005
		m-Ethyltoluene	0.026	0.008
		p-Ethyltoluene	0.031	0.009
		o-Ethyltoluene	0.008	0.003
		n-Heptane	0.012	0.004
		Methylcyclohexane	0.033	0.010
		NO	0.163	0.047
		NO ₂	0.009	0.003
		n-Nonane	0.204	0.059
		n-Octane	0.051	0.015
		n-Pentane	0.031	0.009
		1-Pentene	0.009	0.003
		trans-2-Pentene	0.012	0.004
		PAH	0.003	0.002
		Sulfur trioxide	0.005	0.003
		Toluene	0.204	0.059
		Zinc	0.013	0.004

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Benzo(a)anthracene	1.62E-05	1.07E-05
Benzo(a)pyrene	9.36E-06	6.17E-06
1,3-Butadiene	2.45E-04	7.10E-05
i-Butane	2.45E-04	7.10E-05
n-Butane	9.38E-04	2.72E-04
i-Butene	4.08E-04	1.18E-04
trans-2-Butene	5.92E-04	1.72E-04
Cyclopentane	3.06E-04	8.87E-05
Dibenzofuran	3.00E-05	1.98E-05
2,4-Dinitrotoluene	1.85E-05	1.22E-05
2,6-Dinitrotoluene	1.62E-05	1.07E-05
Ethane	1.90E-03	5.50E-04
Formaldehyde	1.89E-04	5.85E-05
n-Hexane	3.26E-03	9.46E-05
1-Hexene	4.49E-04	1.30E-04
Methylcyclopentane	2.02E-03	5.86E-04
2-Nitronaphthalene	9.59E-06	6.32E-06
Naphthalene	1.73E-05	1.14E-05
Nitric Acid	6.10E-04	3.98E-04
N ₂ O	5.40E-04	3.24E-04
OCDD	2.04E-09	5.92E-10
Ozone	3.51E-06	1.69E-06
Phenol	9.24E-04	6.09E-04
Propane	3.26E-03	9.46E-04
Propene	4.49E-04	1.30E-04
Pyrene	3.70E-05	2.44E-05
1,3,5-Trinitrobenzene	6.12E-07	4.04E-07
2,4,6-Trinitrotoluene	7.39E-06	4.87E-06

- (1) Emission point identification - either specific equipment designation or emission point number from a plot plan.
- (2) Specific point source names. For fugitive sources, use an area name or fugitive source name.
- (3) Air Contaminant Name.

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VOC	- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
NO _x	- total oxides of nitrogen
NO	- nitrogen oxide
NO ₂	- nitrogen dioxide
N ₂ O	- nitrous oxide
SO ₂	- sulfur dioxide
PM	- particulate matter, suspended in the atmosphere, including PM ₁₀ and PM _{2.5}
PM ₁₀	- particulate matter equal to or less than 10 microns in diameter
PM _{2.5}	- particulate matter equal to or less than 2.5 microns in diameter
CO	- carbon monoxide
HCl	- hydrogen chloride
Pb	- lead
PAH	- total polycyclic aromatic hydrocarbons

- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

__Hrs/day __Days/week __Weeks/year or 8,760 Hrs/year

- ** Compliance with annual emission limits is based on a rolling 12-month period.

Dated July 30, 2008