

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 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)	<u>Emission Rates *</u>	
			lb/hr	TPY**
E-1 through E-12	Thermal Treatment Units (Emission Limits for all 12 units, E-1 through E-12, combined)	NO <sub>x</sub>	5.03	3.66
		CO	5.48	3.99
		PM	16.98	12.36
		VOC	4.95	3.6
		SO <sub>2</sub>	0.15	0.11
		Lead	0.05	0.04
		HCl	0.03	0.02
		THC	6.12	4.46
		PAH	4.0E-04	3.0E-04
		2,4-Dinitrotoluene	1.5E-03	1.1E-03
		2,6-Dinitrotoluene	1.3E-03	9.4E-04
		2,4,6-Trinitrotoluene	4.5E-05	3.3E-05
		2-Nitronaphthalene	4.9E-05	3.5E-05
		1,3,5-Trinitrobenzene	1.1E-05	7.7E-06
		Naphthalene	6.7E-04	4.8E-04
		Benzo(a)anthracene	2.9E-04	2.1E-04
		Pyrene	3.8E-05	2.8E-05
		Phenol	9.4E-04	6.8E-04
		Dibenzofuran	3.6E-04	2.6E-04
		N-nitrosodiphenylamine		6.5E-06
	4.7E-06	1-Nitropyrene	1.0E-05	7.3E-06
		Diphenylamine	5.6E-05	4.1E-05
		2-Nitrodiphenylamine	1.3E-05	9.4E-06
		Picric acid	9.0E-06	6.6E-06
		RDX (cyclonite)	3.8E-04	2.8E-04
		Formaldehyde	1.0E-04	1.0E-04
		Aldehydes	5.0E-02	4.0E-02
		Nitric Acid	9.6E-04	7.0E-04
		Nitrous oxide	8.9E-04	6.5E-04
		Ozone	5.8E-06	4.2E-06

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Sulfur trioxide                      2.0E-03                      2.0E-03

- (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) VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.
- PM<sub>10</sub> - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no particulate matter greater than 10 microns is emitted.
- CO - carbon monoxide
- HCl - hydrogen chloride
- THC - total hydrocarbons
- PAH - polyaromatic hydrocarbons

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

4 burns/day 12 units/day 7 Days/week 52 Weeks/year

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

Dated \_\_\_\_\_