

Emission Sources - Maximum Allowable Emission Rates

Permit Number 1834

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)
EC-25F	Waste Tank Backup Carbon System	VOC	0.71	0.12
		Methylene Chloride	0.63	0.12
LN-01(6)	Methomyl Vapor Incinerator (5)	CO	0.60	2.80
		CO (5)	0.62	2.72
		NO _x	316.00	31.60
		NO _x (5)	1.51	6.51
		SO ₂	58.00	74.00
		SO ₂ (5)	6.95	16.05
		VOC	2.00	1.00
		VOC (5)	0.07	0.25
		HCl	34.00	7.30
		HCl (5)	32.64	12.02
		PM/PM ₁₀ /PM _{2.5}	0.06	0.25
		PM/PM ₁₀ /PM _{2.5} (5)	0.06	0.25
LN-04	Hot Brine Tank	VOC	0.48	0.29
LN-05	Process Vent (5)	Methylene Chloride	30.50	37.90
LN-06	Methanol Tank	VOC	1.48	1.11
LN-07	Hot Brine Tank	VOC	0.76	0.59
LN-10	Lannate Cooling Tower	PM/PM ₁₀ /PM _{2.5}	0.04	0.18
LN-11	North Vydate Tank	VOC	4.50	0.67
LN-13	Dust Collector	PM/PM ₁₀ /PM _{2.5}	0.01	0.05
LN-21F	Fugitives (4)	VOC	0.80	3.50
		Methyl Mercaptan	0.07	0.32
		Chlorine	0.01	0.06
		HCl	0.07	0.30
		Methylene Chloride	1.96	8.60
LN-22	Acetaldoxime Mix Tank	VOC	1.01	0.04
LN-23	Process Heater	VOC	0.03	0.12
		NO _x	0.49	2.16
		SO ₂	0.01	0.01

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		CO	0.41	1.82
		PM/PM ₁₀ /PM _{2.5}	0.04	0.16
LN-24	MIC Vapor Incinerator (5)	VOC	1.00	1.00
		NO _x	3.80	16.50
		SO ₂	0.01	0.01
		CO	0.60	2.70
		HCl	4.00	9.40
LN-30	South Vydate Tank	VOC	4.50	0.67
LN-50	NRS Vapor Incinerator (5)	VOC	0.05	0.12
		Methylene Chloride	0.44	1.51
		NO _x	9.70	33.67
		CO	0.03	0.12
		SO ₂	0.42	0.94
		Cl ₂	0.01	0.01
		HCl	0.38	1.29
LNRMS	Equipment Opening	VOC	30.12	0.01
LN-TPVATM	Temporary Venting	VOC	0.03	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.
- 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
- HCl - hydrogen chloride
- Cl₂ - chlorine
- (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.
- (5) Upon successful startup (approximately October 2011) of the new NRS Incinerator (LN-50) and EPN Nos. LN 24 (MIC Vapor Incinerator) and EPN LN-05 shall be eliminated permanently. The EPN No. LN 01 will be limited to the new values denoted with "(5)".

Date: November 3, 2011