

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 1961

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)
E14A053	Acetic Acid Absorber	VOC	0.77	0.04
E14A030	Flare	VOC (6)	134.77	42.07
		Ethylene	39.52	20.80
		NO <sub>x</sub>	14.04	20.11
		CO	71.62	102.59
		SO <sub>2</sub>	1.17	3.63
E14A030	VA-5 Flare MSS Emissions	VOC (6)	6.44	<0.01
		Ethylene	5.13	<0.01
		NO <sub>x</sub>	11.24	<0.01
		CO	57.88	0.03
		Acetone	0.16	<0.01
		Methyl Acetate	0.39	<0.01
E14A050	KAC Mix Tank	VOC	0.89	0.01
E14NAST	Tank No. 112644	VOC	0.08	<0.01
E14OSST	Tank No. 112643	VOC	0.03	<0.01
F14A001	VA-5 Unit Fugitives (5)	VOC (6)	3.35	14.69
		Ethylene	1.01	4.42
L14A058	Polymer Uncollected Loading Losses	VOC	2.86	0.18
W14A001	B.111 WW Fugitives (5)	VOC (6)	0.17	0.76
		Ethylene	0.11	0.50
W14A002	B.110 WW Fugitives (5)	VOC	1.02	4.46

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VA5WMSS	VA-5 West MSS Emissions	VOC	4.17	0.10
		Ethylene	2.44	0.01
		Acetone	0.20	<0.01
		Methyl Acetate	0.26	<0.01
VA5EMSS	VA-5 East MSS Emissions	VOC	5.33	0.07
E14A064	Tank No. 11036	VOC	0.18	0.71
E14A064	Tank No. 11036 MSS	VOC	5.23	1.79
E14A067	Tank No. 11072	VOC	2.16	1.38
E14A067	Tank No. 11072 MSS	VOC	5.23	1.79

- (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<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
SO<sub>2</sub> - sulfur dioxide
- (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.
- (6) VOC includes ethylene.

Date: November 20, 2019