

# 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	1.01	0.08
E14A030	Flare	VOC (6)	116.86	36.04
		Ethylene	36.39	14.52
		NO <sub>x</sub>	12.44	17.20
		CO	63.59	88.61
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
E01A006	Tank No. 9701	VOC	0.81	-
E01A007	Tank No. 9702	VOC	0.81	-
	Total - Tank Nos. 9701 and 9702	VOC	-	2.75
E14A060	Tank No. 11010	VOC	1.51	-
E14A062	Tank No. 11020	VOC	1.51	-
	Total - Tank Nos. 11010 and 11020	VOC	-	7.28
E14A064	Tank No. 11036	VOC	0.36	0.95
E14A067	Tank No. 11072	VOC	2.33	1.55

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E14A050	KAC Mix Tank	VOC	0.99	0.03
		Inorganics	0.01	0.01
E14A022	Carbonate Tank	Inorganics	0.01	0.01
E14A049	Tank No. 11040	Inorganics	0.01	0.01
F01A006	IPD Tank Fugitives	VOC	0.21	0.90
F14A001	VA-5 Unit Fugitives (5)	VOC (6)	4.66	20.41
		Ethylene	1.86	8.17
L14A058	Polymer Uncollected Loading Losses	VOC	2.86	0.08
W14A001	B.111 WW Fugitives	VOC	0.01	0.04
W14A002	B.110 WW Fugitives	VOC	1.02	4.46
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 MSS	VOC	5.23	1.79
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
- HRVOC - highly reactive volatile organic compounds as defined in 30 TAC § 115.10
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide

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- (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: February 13, 2013