

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9597

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**
Y-C-1	Furnace F-9180	VOC	0.08	0.35
		NOx	0.48	2.10
		PM	0.26	1.14
		CO	0.08	0.35
Y-C-101	Furnace F-91180	VOC	0.03	0.15
		PM	0.03	0.14
		NOx	0.65	2.85
		CO	0.08	0.35
Y-D-1	Flare X-9845	VOC	5.60	11.72
		NOx	3.97	3.20
		PM	10.73	8.33
		CO	9.19	15.86
Y-D-2	Flare X-9846	VOC	2.50	0.20
		NOx	0.52	1.96
		PM	37.67	9.00
		CO	2.67	10.50
Y-D-3	Caustic Scrubber D-9455	VOC	<0.01	0.01
		Silane Compounds	9.80	5.40
Y-D-4	Lime Scrubber D-9847	VOC	0.74	10.80
		Silane Compounds	0.75	2.80
		Silicon Tetrafluoride	0.30	1.00
Y-E-1	Seal Pot D-9102 Vent	VOC	0.01	0.01
Y-E-2	Oil Scrubber D-9104 Vent	VOC	0.07	0.02
Y-E-3	Scrubber	HCl	0.04	0.08
Y-E-102	Oil Scrubber D-91104	PM	3.63	3.16

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			lb/hr	TPY**
Y-E-3	Scrubber S-9550	H2	2.76	0.71
Y-E-4	Baghouse SF-9620	PM	0.01	0.05
Y-E-5	Baghouse B-9420, SF-9420A/B	PM	0.10	0.37
Y-E-105	Baghouse B-94120, SF-94120A/B	PM 0.37		0.10
Y-E-6	Baghouse B-9440	PM	0.38	1.47
Y-E-7	Vent VP-9840	VOC	0.09	0.11
Y-E-8	Filter SF-9514	PM	<0.01	<0.01
Y-E-108	Filter SF-95114	PM		
Y-E-9	Filter SF-9524	PM	<0.01	<0.01
Y-E-109	Filter SF-95124	PM		
Y-E-10	Filter SF-9534	PM	<0.01	<0.01
Y-E-110	Filter SF-95134	PM		
Y-E-11	Filter SF-9624	PM	<0.01	<0.01
Y-E-12	Vent SF-9610	PM	<0.01	<0.01
Y-E-13	Filter SF-9160	PM	<0.01	<0.01
Y-E-14	Vent LE-14	PM	3.39	0.26
Y-E-15	Vent LE-7B	VOC	<0.01	0.02
Y-E-16	Vent K-9230	PM	<0.01	<0.01
Y-E-116	Vent K-92130	PM		
Y-E-17	Vent VP-9394	VOC	0.02	0.01

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	Vent VP-9395	PM	0.01	0.05
Y-E-18	Filter R-9510/9520/9530 Annulus	PM	0.26	0.81
Y-E-118	Filter R-95110/95120/ 95139 Annulus	PM		
Y-E-19	Vent K-9240	PM	<0.01	<0.01
Y-E-119	Vent K-92140	PM		
Y-E-20	Filter SF-9655	PM	<0.01	<0.01
Y-E-21	Filter SF-9615	PM	<0.01	<0.01
Y-E-22	Filter SF-9544	PM	<0.01	<0.01
Y-E-122	Filter SF-95144	PM		
Y-E-23	Vent K-9511	PM	0.02	0.03
Y-E-123	Vent K-95111	PM		
Y-E-24	Vent K-9521	PM	<0.01	0.02
Y-E-25	Filter LE-23	VOC	0.02	0.03
Y-E-26	Vent LE-42	VOC	<0.01	<0.01
Y-E-27	Vent LE-47	VOC	<0.01	<0.01
Y-E-28	Vent K-9250	PM	<0.01	<0.01
Y-E-129	Filter	PM	<0.01	<0.01
Y-GZ-1	Fugitives	VOC	3.86	16.62
		PM	0.87	
		Inorganic Acid	0.03	0.15

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		Methylene Chloride	0.10	0.44
		Silane Compounds	1.88	8.25
		Silicon Tetrafluoride	0.16	0.78
		HCl 0.14	0.53	

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(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

IOC-U - inorganic compounds (unspeciated)

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - particulate matter, suspended in the atmosphere, including PM₁₀.

PM₁₀ - 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

HF - hydrogen fluoride

HBr - hydrogen bromide

HI - hydrogen iodide

NaOH - sodium hydroxide

(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

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

____Hrs/day ____Days/week ____Weeks/year or ____Hrs/year

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