

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

HW-50084-001

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)	lb/hr	TPY	<u>Emission Rates *</u>
Currently Permitted Sources HW-50084 and 9607					
C-1	Carbon Bed	VOC	5.45	23.87	
2	T-1 Drum Inspection	VOC		0.13	
3**	A-20 Spent Naphtha Tanks	VOC		0.02	
4**	A-1 Spent Flammables Tanks	VOC		0.029	
5**	A-17 Spent Flammables Tanks	VOC		0.09	
6**	P-1 Drum Cleaning and Drumming	VOC	1.2	0.3	
7**	A-2 Drum Evac, Tank	VOC		0.06	
8	Filter Cleaning	VOC		0.01	
9**	A-3 Tank	VOC		0.024	
10**	A-4 Tanks	VOC		0.024	
12**	A-5 Evaporators, Vacuum Pump	VOC	0.9	0.05	
13**	A-10 Tanks	VOC		0.023	
14**	A-21 Naphtha Tanks	VOC		0.0036	

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15**	A-6 Blending Tanks	VOC		0.0184
16**	A-7 Fuel Blending Tanks	VOC		0.0121
17**	A-8 Fractionator Vacuum Pump Discharge	VOC	0.04	0.02
<u>Emission Point No. (1)</u>	<u>Source Name (2)</u>	<u>Air Contaminant Name (3)</u>	<u>lb/hr</u>	<u>Emission Rates * TPY</u>
18**	A-9 Product Tanks	VOC		0.0321
22	Boiler, B1	VOC	0.4	1.8
		NOx	12.0	52.6
		SO2	4.0	17.5
		CO	8.5	37.2
		HCl	0.24	1.2
23	5.85 MM BTU/Hr Boiler B2	VOC	0.03	0.13
		NOx	0.6	2.6
		SO2		<0.1
		PM	0.03	0.13
		CO	0.12	0.53
24	0.165 MM BTU/Hr Heater	VOC		<0.1
		NOx		0.1
		SO2		<0.1
		PM		<0.1
		CO		<0.1
25	No. 2 Fuel Tank Tk 59	VOC		<0.001
27	Drum Inspection	VOC		0.4
28**	A-11 Spent Freon Tanks	VOC		0.16
29**	A-18 Tanks	VOC		0.16
30	Filter Cleaning	VOC		0.04

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32**	A-12 Still	VOC	0.33	0.16
33**	A-13 Frac. Feed Tanks	VOC		0.15
34**	A-14 Freon Tanks	VOC		0.15
35**	A-19 Tanks	VOC		0.124
36**	A-16 Tanks	VOC		0.112
37**	A-15 Vacuum Pump Discharge	VOC	0.09	0.06

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	Emission Rates * TPY
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41**	P-2 Drum Cleaning	VOC	0.9	0.16
	Process Fugitives (4)	VOC		9.2

All of Above Sources To Be Replaced By the Following:

C-1	Control System A	VOC	8.88	38.89
C-2	Control System B	VOC	0.30	1.30
F-1	Fugitives (4)	VOC	0.53	2.32
B-1	Boiler	VOC	0.03	0.13
		NOx	0.60	2.60
		SO2	<0.10	<0.10
		CO	0.12	0.53

- (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 General Rule 101.1  
 NOx - total oxides of nitrogen  
 SO2 - sulfur dioxide  
 CO - carbon monoxide

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PM - particulate matter

HCl - hydrogen chloride

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

\*\* These sources are all currently routed to a control system consisting of an Edwards condenser and carbon canisters in series.

\* 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 8,760