

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 9074

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
94	PCE Barge Unloading	PCE	1.18	0.057
96	PCE Fugitives	PCE	0.107	0.467
102	PCE Tank	PCE	0.483	0.223
120	Emergency Generator No. 1	SO <sub>2</sub>	0.82	0.011
		NO <sub>x</sub>	11.6	0.151
		TSP	0.82	0.011
		CO	2.5	0.033
		VOC/TOC	0.95	0.012
121	Caustic Scrubber	HCl	0.998	0.62
		Cl <sub>2</sub>	0.29	0.011
		FC	84.0	18.4
122 0.09	Main Sniff Scrubber (5)	HCl		0.02
		Cl <sub>2</sub>	0.03	0.13
122	HCl Scrubber (6) (after scrubber project)	HCl	0.02	0.09
123	Fugitive Emissions (4)	HCl	0.0135	0.059
126	Fugitive Emissions (4)	HCl	0.0683	0.299
135 0.09	Backup Sniff Scrubber (5)	HCl		0.02

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			lb/hr	TPY
		Cl <sub>2</sub>	0.03	0.13
135 0.13	Backup Sniff Scrubber (6) (after scrubber changes)	Cl <sub>2</sub>	0.03	0.03
150	Fugitives (4)	FC	0.0126	0.0552
		HCl	0.0713	0.312
		Cl <sub>2</sub>	0.111	0.486
		H <sub>2</sub>	0.181	0.793
151	Sniff Scrubber	Cl <sub>2</sub>	0.305	0.51
		HCl	0.0221	0.047
		FC	0.95	1.68
152	98 percent Acid Tank	H <sub>2</sub> SO <sub>4</sub>	0.0034	0.000023
153	93 percent Acid Tank	H <sub>2</sub> SO <sub>4</sub>	0.0034	0.000023
154	H <sub>2</sub> Vent	H <sub>2</sub>	350	76.7
		HCl	0.0025	0.00055
166	H <sub>2</sub> O <sub>2</sub> Storage Tank	H <sub>2</sub> O <sub>2</sub>	0.32	0.0031
170	Boiler	SO <sub>2</sub>	8.33	32.84
		NO <sub>x</sub>	15.24	60.07
		TSP	0.8	3.16
		CO	7.77	30.62
		VOC	4.49	17.7
175	Fugitive Emissions (4)	FC	0.859	3.76
179	Cooling Tower	TSP	1.6	7.01
186	Neutralizer Vent	FC	0.20	0.90
187	Fugitive Emissions (4)	FC	1.74	7.62

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
		HF	0.0284	0.124
		HCl	0.0318	0.139
		VCM	0.0831	0.364
		H <sub>2</sub>	0.065	0.285
189	Sniff Scrubber Stack	FC	0.01	0.0025
		HCl	0.01	0.0005
		HF	0.01	0.0005
191	Carbon Canister 1	FC	5.00	0.5
192	Thermal Converter Stack	FC	1.87	8.19
		NO <sub>x</sub>	0.89	3.9
		CO	0.54	2.37
		TSP	0.23	1.01
		VOC	0.84	1.84
		SO <sub>2</sub>	0.12	0.53
		Benzene	<0.001	<0.001
		VCM	<0.001	0.002
		HF	0.192	0.84
		HCl	0.057	0.25
		Cl <sub>2</sub>	0.0033	0.0145
193	Fugitive Emissions (4)	FC	4.34	19.03
		Benzene	0.000023	0.000101
		HCl	0.00555	0.0243
		VCM	0.0168	0.00736
		H <sub>2</sub>	0.819	3.59
194	Emergency Generator No. 3	SO <sub>2</sub>	0.82	0.011
		NO <sub>x</sub>	11.6	0.151
		TSP	0.82	0.011
		CO	2.5	0.033
		VOC/TOC	0.95	0.012

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
197	Carbon Canister No. 2	FC	12.5	2.74
		HF	0.027	0.01
		Cl <sub>2</sub>	0.80	0.17
		HCl	8.04	1.76
210	Emergency Fire Pump No. 1	SO <sub>2</sub>	0.41	0.011
		NO <sub>x</sub>	5.81	0.151
		TSP	0.41	0.011
		CO	1.3	0.033
		VOC/TOC	0.47	0.012
215	Emergency Fire Pump No. 2	SO <sub>2</sub>	1.23	0.032
		NO <sub>x</sub>	17.4	0.453
		TSP	1.2	0.032
		CO	3.8	0.098
		VOC	1.4	0.037
231	Therminol Heater	SO <sub>2</sub>	1.559	6.828
		NO <sub>x</sub>	3.82	16.732
		TSP	0.374	1.638
		CO	0.955	4.183
		VOC	0.076	0.333
237	Hot Air Heater	SO <sub>2</sub>	0.43	1.9
		NO <sub>x</sub>	0.75	3.3
		TSP	0.09	0.40
		CO	0.16	0.692
		VOC	0.04	0.175
244	Emergency Generator No. 2	SO <sub>2</sub>	0.82	0.011
		NO <sub>x</sub>	11.6	0.151
		TSP	0.82	0.011
		CO	2.5	0.033
		VOC	0.95	0.012

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Emission * Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY
245	Fugitive Emissions (4) (after East Plant conversion)	FC	3.88	17.0
1.29		VOC		0.296
		HF	0.0703	0.308
		HCl	0.0881	0.386
		Cl <sub>2</sub>	0.0499	0.218
		H <sub>2</sub>	0.472	2.07
		PCE	0.133	0.582
247	Spray Scrubber	HF	0.106	0.038
		HCl	0.049	0.091
		Cl <sub>2</sub>	0.11	0.23
		FC	26.0	2.85
251	CC-97 Pilot Plant	HCl	0.0006	0.0026
		H <sub>2</sub>	7.00	30.70

(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) PCE - perchloroethylene

NO<sub>x</sub> - total oxides of nitrogen

CO - carbon monoxide

FC - fluorocarbons

HCl - hydrogen chloride

H<sub>2</sub>SO<sub>4</sub> - sulfuric acid

HF - hydrogen fluoride

Cl<sub>2</sub> - chlorine

TSP - total suspended particulate matter

SO<sub>2</sub> - sulfur dioxide

VOC - volatile organic compounds

TOC - total organic compounds

H<sub>2</sub>O<sub>2</sub> - hydrogen peroxide

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Emission *	Source	Air Contaminant	<u>Emission Rates</u>	
<u>Point No. (1)</u>	<u>Name (2)</u>	<u>Name (3)</u>	<u>lb/hr</u>	<u>TPY</u>

H<sub>2</sub> - hydrogen

VCM - vinyl chloride monomer

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

(5) Emission rates until the sniff scrubber changes are completed. These emission rates are valid through the construction period, which will end no later than September 30, 1997.

(6) Emission rates after the sniff scrubber changes are completed. These emission rates will begin in calendar year 1997.

\* 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

Dated \_\_\_\_\_