

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 ₂	0.82	0.011
		NO _x	11.6	0.151
		TSP	0.82	0.011
		CO	2.5	0.033
		VOC/TOC	0.95	0.012
121	Caustic Scrubber	HCl	0.92	0.28
		Cl ₂	0.29	0.011
		FC	84.0	18.4
122 0.09	Main Sniff Scrubber (5)	HCl		0.02
		Cl ₂	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
		Cl ₂	0.03	0.13

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
135 0.13	Backup Sniff Scrubber (6) (after scrubber changes)	Cl ₂		0.03
150	Fugitives (4)	FC	0.0126	0.0552
		HCl	0.0713	0.312
		Cl ₂	0.111	0.486
		H ₂	0.181	0.793
151	Sniff Scrubber	Cl ₂	0.305	0.51
		HCl	0.0221	0.047
		FC	0.95	1.68
152	98 percent Acid Tank	H ₂ SO ₄	0.0034	0.000023
153	93 percent Acid Tank	H ₂ SO ₄	0.0034	0.000023
154	H ₂ Vent	H ₂	350	76.7
		HCl	0.0025	0.00055
166	H ₂ O ₂ Storage Tank	H ₂ O ₂	0.32	0.0031
170	Boiler	SO ₂	8.33	32.84
		NO _x	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 ₂	0.065	0.285

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
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 8.19	Thermal Converter Stack	FC		1.87
		NO _x	0.89	3.9
		CO	0.54	2.37
		TSP	0.23	1.01
		VOC	0.84	1.84
		SO ₂	0.12	0.53
		Benzene	<0.001	<0.001
		VCM	<0.001	0.002
		HF	0.192	0.84
		HCl	0.135	0.59
		Cl ₂	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 ₂	0.819	3.59
194	Emergency Generator No. 3	SO ₂	0.82	0.011
		NO _x	11.6	0.151
		TSP	0.82	0.011
		CO	2.5	0.033
		VOC/TOC	0.95	0.012
197	Carbon Canister No. 2	FC	12.5	2.74
		HF	0.027	0.01
		Cl ₂	0.80	0.17
		HCl	8.04	1.76

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
210	Emergency Fire Pump No. 1	SO ₂	0.41	0.011
		NO _x	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 ₂	1.23	0.032
		NO _x	17.4	0.453
		TSP	1.2	0.032
		CO	3.8	0.098
		VOC	1.4	0.037
231	Therminol Heater	SO ₂	1.559	6.828
		NO _x	3.82	16.732
		TSP	0.374	1.638
		CO	0.955	4.183
		VOC	0.076	0.333
237	Hot Air Heater	SO ₂	0.43	1.9
		NO _x	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 ₂	0.82	0.011
		NO _x	11.6	0.151
		TSP	0.82	0.011
		CO	2.5	0.033
		VOC	0.95	0.012
245	Fugitive Emissions (4) FC (after East Plant conversion)		3.88	17.0
		VOC		0.296
1.29		HF	0.0703	0.308
		HCl	0.0881	0.386
		Cl ₂	0.0499	0.218
		H ₂	0.472	2.07
		PCE	0.133	0.582

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY
247	Spray Scrubber	HF	0.106	0.038
		HCl	0.049	0.091
		Cl ₂	0.11	0.23
		FC	26.0	2.85
251	CC-97 Pilot Plant	HCl	0.0006	0.0026
		H ₂	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_x - total oxides of nitrogen

CO - carbon monoxide

FC - fluorocarbons

HCl - hydrogen chloride

H₂SO₄ - sulfuric acid

HF - hydrogen fluoride

Cl₂ - chlorine

TSP - total suspended particulate matter

SO₂ - sulfur dioxide

VOC - volatile organic compounds

TOC - total organic compounds

H₂O₂ - hydrogen peroxide

H₂ - 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:

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AIR CONTAMINANTS DATA

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

Hrs/day _____ Days/week _____ Weeks/year _____ /or Hrs/year 8,760

Dated _____