

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19849

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 Number (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
A1301	M-Plant Vent to A&S Flare (6)	Acetone	0.42	1.33
		CO	8.96	36.51
		NO _x	1.24	5.05
		VOC	3.64	15.13
A1301	H-Plant Vent to A&S Flare (6)	CO	1.45	4.57
		NO _x	0.20	0.63
		VOC	0.22	0.69
A1333	Wet DMK Vent to HIPA Flare (6)	Acetone	0.15	<0.01
		CO	0.04	<0.01
		NO _x	0.01	<0.01
		VOC	0.01	<0.01
C39	Scrubber Column Vent	Acetone	0.52	1.43
		VOC	0.98	2.68
C803	Stabilizer Column Vent	Acetone	0.54	0.18
		VOC	4.32	1.44
D344	Finished MIBK (after seal upgrade) (before seal upgrade)	VOC	0.53	0.17
		VOC	0.53	0.22
D348	Finished MIBK (after tank upgrade) (before tank upgrade)	VOC	0.21	0.22
		VOC	41.46	9.11
D368	50 percent Caustic Solution	VOC	<0.01	<0.01
D382	50 percent Caustic Solution	VOC	<0.01	<0.01

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F20	Hot Oil Furnace	CO	1.06	2.65
		NO _x	1.26	3.15
		PM	0.10	0.24
		SO ₂	0.34	0.85
		VOC	0.07	0.17
FTRUCK	Truck Loading Fugitives (6)	VOC	0.55	0.18
HPLANTFE	H-Plant Fugitives (4)	Acetone	0.08	0.36
		VOC	1.25	5.47
J801	Column Accumulator Vent (5)	Acetone	7.17	31.40
		VOC	0.31	1.36
J802	Column Accumulator Vent	Acetone	0.23	1.02
		VOC	0.01	0.05
MPLANTFE	Plant Fugitives (4)	Acetone	0.97	4.23
		VOC	3.25	14.23
NAOHREGEN	Converter NaOH Stack	Acetone	<0.01	<0.01
		VOC	<0.01	<0.01
S414	Citric Acid Solution	VOC	<0.01	<0.01
SCRWRTC/SCRWRTT		Condenser/Scrubber (6)	VOC	0.67
SE243	Scrubber Vent	Acetone	2.88	12.49
		VOC	<0.01	<0.01
T140B	Tank T-140B (after seal upgrade)	Acetone	0.03	0.05
		VOC	0.27	0.52
	(before seal upgrade)	VOC	0.27	0.56
T181	Tank T-181	VOC	1.33	1.44

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T183	Tank T-183	VOC	0.04	0.01
T185B	Tank T-185B	VOC Acetone 0.53	0.19 0.37	0.27
T189	Tank T-189	VOC	6.14	0.34
T198	Tank T-198	VOC	0.04	0.01
T199	Tank T-199	VOC	0.07	0.01
T200	Tank T-200	VOC Acetone 0.66	0.34 0.70	0.36
T2406C	Tank T-2406C	VOC	<0.01	<0.01
T3	Tank T-3	VOC Acetone 0.02	0.16 0.03	0.35
T303R1	Tank T-303R1	VOC Acetone 0.03	0.03 0.06	0.06
T309R1	Tank T-309R1	VOC	0.17	0.11
T310R1	Tank T-310R1	VOC	0.17	0.10
T3150	Tank T-3150	VOC	0.43	0.12
T3222	Tank T-3222	VOC Acetone 0.55	2.11 0.05	0.19
T3227	Tank T-3227	Acetone	2.00	0.19

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			lb/hr	TPY**
		VOC 0.52	0.05	
T344	Tank T-344	VOC	6.14	0.34
T4	Tank T-4	Acetone VOC <0.01	0.39 <0.01	0.80
T6251	Tank T-6251	VOC	<0.01	<0.01
T654B	Tank T-654B	Acetone VOC 0.11	0.93 0.02	0.17
T655	Tank T-655	VOC	1.03	0.06
T656	Tank T-656	VOC	1.03	0.06
T65C	Tank T-65C (after seal upgrade)	Acetone VOC 0.04	0.38 0.08	0.72
	(before seal upgrade)	VOC	0.04	0.08
T65D	Tank T-65D	Acetone VOC 0.03	0.32 0.07	0.65
T661	Tank T-661	VOC	0.08	0.10
T663	Tank T-663	Acetone VOC 0.92	0.16 0.19	0.03
T664	Tank T-664	VOC	1.03	1.07
T666R1	Tank T-666R1	VOC	0.13	0.14
T667	Tank T-667	VOC	0.07	0.13
T70A	Tank T-70A	Acetone	4.24	0.20

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		VOC 4.99	0.23	
T70B	Tank T-70B	Acetone	4.24	0.20
		VOC 4.99	0.23	
T723	Tank T-723	VOC	0.02	<0.01
T724	Tank T-724	VOC	0.02	<0.01
T738	Tank T-738	VOC	<0.01	<0.01
T739	Tank T-739	VOC	<0.01	<0.01
T74C	Tank T-74C (after seal upgrade)	Acetone	0.48	0.83
		VOC 0.02	0.03	
	(before seal upgrade)	VOC	0.02	0.03
T74D	Tank T-74D	Acetone	0.48	0.65
		VOC 0.02	0.02	
T765	Tank T-765	VOC	<0.01	<0.01
T77B	Tank T-77B	VOC	0.43	0.12
T780	Tank T-780	VOC	<0.01	<0.01
T781	Tank T-781	VOC	0.02	<0.01
T788	Tank T-788	VOC	<0.01	<0.01
T801	Tank T-801	Acetone	0.03	0.01
		VOC 0.18	0.06	
T802	Tank T-802	Acetone	0.03	0.01
		VOC 0.18	0.06	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
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T803	Tank T-803	Acetone	0.03	0.01
		VOC 0.18	0.06	
T804	Tank T-804	Acetone	0.14	0.03
		VOC 0.80	0.18	
T805	Tank T-805	Acetone	0.14	0.03
		VOC 0.80	0.16	
T806	Tank T-806	Acetone	2.26	0.64
		VOC 0.83	0.24	
T88	Tank T-88	VOC	0.27	0.09
T89	Tank T-89	Acetone	0.16	0.28
		VOC 0.02	0.03	
T8B	Tank T-8B	Acetone	0.59	1.20
		VOC <0.01	<0.01	
V274	Vessel V274 Vent	Acetone	0.09	<0.01
		VOC 0.01	<0.01	
WRTC/WRTT	Tank Truck/RailCar Loading (6)	VOC	13.46	1.22
		Acetone	0.07	0.03
WRTT	Tank Truck Loading (6)	VOC	6.75	0.18
		Acetone	3.93	0.13

(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) CO - carbon monoxide

NO_x - total oxides of nitrogen

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

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

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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.

SO₂ - sulfur dioxide

- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) These emission rates are valid until December 31, 2002 at which point these vents will be routed to control.
- (6) Contributions from M and H Plant only.

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

_____Hrs/day ____Days/week ____Weeks/year or 8,760 Hrs/year

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

Dated December 17, 2002