

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 and S Flare (5) (FIN MPLANTFL)	CO	8.87	36.11	
		NO _x	1.74	7.09	
		VOC	3.64	15.13	
	H-Plant Vent to A and S Flare (5) (FIN HPLANTFL)	CO	1.45	4.57	
		NO _x	0.20	0.63	
		VOC	0.22	0.69	
		Acetone	0.42	1.33	
	A1333	Wet DMK Vent to HIPA Flare (5)	Acetone	0.15	0.01
			CO	0.04	0.01
			NO _x	0.01	0.01
VOC			0.15	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	VOC	0.53	0.17	
D348	Finished MIBK	VOC	0.21	0.22	
D368	50 percent Caustic Solution	NaOH	0.01	0.01	
D382	50 percent Caustic Solution	NaOH	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 (5)	VOC	0.55	0.18
HPLANTFE	H-Plant Fugitives (4)	Acetone	0.08	0.36
		VOC	1.25	5.47
J801	Column Accumulator Vent	Acetone	1.99	3.10
		VOC	0.01	0.01
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	0.02	0.01
S414	Citric Acid Solution	VOC	0.01	0.01
SCRWRTC and SCRWRTT	Condenser/Scrubber (5)	VOC	0.67	0.22
SE243	Scrubber Vent (FIN C47)	Acetone	2.88	12.59
		VOC	0.01	0.01
T140B (6)	Tank T-140B	Acetone	1.10	3.33
		VOC	0.28	0.56
T181	Tank T-181	VOC	1.42	1.52

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			<u>lb/hr</u>	<u>TPY**</u>
T183	Tank T-183	VOC	0.05	0.01
T185B	Tank T-185B	Acetone	0.51	0.41
		VOC 1.22	0.80	
T189 (6)	Tank T-189	VOC	6.12	0.39
T198	Tank T-198	VOC	0.23	0.02
T199	Tank T-199	VOC	0.10	0.01
T200	Tank T-200	Acetone	0.68	0.51
		VOC 1.62	1.00	
T2406C	Tank T-2406C	VOC	0.01	0.01
T3	Tank T-3	Acetone	0.18	0.41
		VOC 0.02	0.03	
T303R1	Tank T-303R1	Acetone	0.04	0.08
		VOC 0.04	0.08	
T309R1	Tank T-309R1	VOC	0.20	0.86
T310R1	Tank T-310R1	VOC	0.20	0.15
T3150 (6)	Tank T-3150	VOC	0.85	0.13
T3222	Tank T-3222	Acetone	5.63	0.20
		VOC 2.64	0.07	
T3227	Tank T-3227	Acetone	5.64	0.19
		VOC 2.65	0.07	

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T344 (6)	Tank T-344	VOC	4.21	0.54
T4	Tank T-4	Acetone	0.37	0.76
		VOC 0.01	0.01	
T6251	Tank T-6251	VOC	0.01	0.01
T654B	Tank T-654B	Acetone	0.92	0.21
		VOC 0.12	0.03	
T655 (6)	Tank T-655	VOC	1.22	0.15
T656 (6)	Tank T-656	VOC	1.22	0.15
T65C	Tank T-65C	Acetone	0.37	0.69
		VOC 0.04	0.07	
T65D	Tank T-65D	Acetone	0.30	0.62
		VOC 0.04	0.07	
T661	Tank T-661	VOC	0.08	0.09
T663 (6)	Tank T-663	Acetone	0.39	0.04
		VOC 3.28	0.21	
T664	Tank T-664	VOC	1.49	1.17
T666R1	Tank T-666R1	VOC	0.15	0.19
T667	Tank T-667	VOC	0.07	0.12
T70A	Tank T-70A	Acetone	4.38	0.24
		VOC 5.05	0.19	

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T70B	Tank T-70B	Acetone VOC 5.05	4.38 0.19	0.24
T723	Tank T-723	VOC	0.09	0.01
T724	Tank T-724	VOC	0.08	0.01
T738	Tank T-738	VOC	0.01	0.01
T739	Tank T-739	VOC	0.01	0.01
T74C	Tank T-74C	Acetone VOC 0.01	0.46 0.02	0.83
T74D	Tank T-74D	Acetone VOC 0.01	0.40 0.02	0.65
T765	Tank T-765	VOC	0.01	0.01
T77B (6)	Tank T-77B	VOC	0.82	0.19
T780	Tank T-780	VOC	0.01	0.01
T781	Tank T-781	VOC	1.12	1.10
T788	Tank T-788	VOC	0.01	0.01
T801	Tank T-801	Acetone VOC 0.92	0.13 0.06	0.01
T802	Tank T-802	Acetone VOC 0.92	0.13 0.06	0.01
T803	Tank T-803	Acetone VOC 0.92	0.13 0.06	0.01

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			<u>lb/hr</u>	<u>TPY**</u>
T804	Tank T-804	Acetone	0.26	0.03
		VOC 1.84	0.16	
T805	Tank T-805	Acetone	0.26	0.03
		VOC 1.84	0.16	
T806	Tank T-806	Acetone	2.18	0.68
		VOC 0.92	0.25	
T89	Tank T-89	Acetone	0.16	0.28
		VOC 0.01	0.03	
T8B	Tank T-8B	Acetone	0.56	1.15
		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 (5)	VOC	13.43	1.22
		Acetone	0.07	0.04
WRTT	Tank Truck Loading (5)	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.

PM₁₀ - particulate matter equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.

SO₂ - sulfur dioxide

NaOH - sodium hydroxide

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- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Contributions from M and H Plant only.
- (6) Portion of these emissions for these facilities are authorized under Permits by Rule (PBR) and incorporated by reference only into this permit. The PBR utilized and emission rates are listed below: portion of these emissions for these facilities were authorized under PBR and incorporated by reference only into this permit. PBR utilized and emission rates are listed below:

EPN No.	PBR Registration No.	PBR Claimed	Total Portion of Emissions
T140B	Filed Only	\$106.478	Acetone 1.08 lb/hr, 3.28 tpy
T189	Filed Only	\$106.478	VOC 0.15 tpy
T3150	Filed Only	\$106.478	VOC 0.06 tpy
T344	Filed Only	\$106.478	VOC 0.15 tpy
T77B	Filed Only	\$106.478	VOC 0.06 tpy
T655	55869	\$106.478	VOC 0.03 lb/hr
T656	55869	\$106.478	VOC 0.03 lb/hr
T663	55869	\$106.478	Acetone 0.02 lb/hr; VOC 0.11 lb/hr

- * 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 September 21, 2007