

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 2590

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**
INCIN1	Incinerator No. 1	CO	1.40	*
		NO _x	0.83	*
		PM	0.13	*
		SO ₂	0.01	*
		VOC	4.33	*
INCIN2	Incinerator No. 2	CO	1.40	*
		NO _x	0.83	*
		PM	0.13	*
		SO ₂	0.01	*
		VOC	4.33	*
Total INCIN1 and INCIN2		CO	*	12.22
		NO _x	*	7.28
		PM	*	1.10
		SO ₂	*	0.08
		VOC	*	2.66
TNK-1	WW Collection Tank	VOC	0.23	1.00
TNK-2	WW Collection Tank	VOC	0.23	1.00
BIO-TNK	Bio Treat Tank	VOC	0.23	1.00
CL-1	Clarifier	VOC	0.01	0.02
R-104	Reactor	VOC	5.29	0.03
M-203	Blender	VOC	4.83	0.04
FUG	Plant Fugitives (4)	VOC	1.98	8.68

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			<u>lb/hr</u>	<u>TPY**</u>
AREA-1	Loading	VOC	6.00	2.24
AREA-2	Loading	VOC	6.00	0.08
AREA-3	Loading	VOC	6.00	4.17
AREA-4	Loading	VOC	6.00	2.84
AREA-5	Loading	VOC	7.80	6.11
AREA-6	Loading	VOC	6.00	2.02
AREA-7	Loading	VOC	6.00	17.22
AREA-8	Loading	VOC	6.00	3.67
AREA-9	Loading	VOC	6.00	3.92
CS-1	Carbon Loading	PM	<0.01	<0.01
S-144	Storage Tank	VOC	1.95	0.03
S-145	Storage Tank	VOC	1.95	0.12
S-602	Storage Tank	VOC	<0.01	0.03
S-603	Storage Tank	VOC	1.95	0.36
S-604	Storage Tank	VOC	7.47	0.46
S-605	Storage Tank	VOC	11.02	0.72
S-606	Storage Tank	VOC	0.59	0.46
S-608	Storage Tank	VOC	69.21	<0.01
S-610	Storage Tank	VOC	0.30	<0.01

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			<u>lb/hr</u>	<u>TPY**</u>
S-611	Storage Tank	VOC	0.05	<0.01
S-612	Storage Tank	VOC	<0.01	<0.01
S-613	Storage Tank	VOC	<0.01	<0.01
S-618	Storage Tank	VOC	1.25	0.02
S-619	Storage Tank	VOC	<0.01	<0.01
S-621	Storage Tank	VOC	<0.01	<0.01
S-622	Storage Tank	VOC	<0.01	<0.01
S-623	Storage Tank	VOC	1.29	0.01
S-624	Storage Tank	VOC	1.29	0.01
S-625	Storage Tank	VOC	0.71	0.01
S-626	Storage Tank	VOC	1.38	0.01
S-627	Storage Tank	VOC	0.21	<0.01
S-628	Storage Tank	VOC	0.75	<0.01
S-629	Storage Tank	VOC	0.76	0.01
S-630	Storage Tank	VOC	0.76	<0.01
S-631	Storage Tank	VOC	0.02	<0.01
S-632	Storage Tank	VOC	0.01	<0.01
S-633	Storage Tank	VOC	0.42	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
S-634	Storage Tank	VOC	0.23	<0.01
S-635	Storage Tank	VOC	0.17	<0.01
S-636	Storage Tank	VOC	1.38	0.02
S-637	Storage Tank	VOC	<0.01	<0.01
S-638	Storage Tank	VOC	0.95	0.01
S-639	Storage Tank	VOC	0.81	0.01
S-640	Storage Tank	VOC	0.84	0.01
S-641	Storage Tank	VOC	1.33	0.01
S-642	Storage Tank	VOC	9.96	0.15
S-643	Storage Tank	VOC	15.13	0.21
S-644	Storage Tank	aq. AlCl ₃	3.47	0.08
S-645	Storage Tank	VOC	4.75	*
S-646	Storage Tank	VOC	21.57	*
Total S-645 and S-646		VOC	*	1.51
S-647	Storage Tank	aq. NaOH	0.58	0.03
S-655	Storage Tank	VOC	8.07	0.26
S-656	Storage Tank	VOC	8.07	0.29

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
S-663	Storage Tank	VOC	0.04	0.01
S-665	Storage Tank	VOC	0.04	<0.01
S-666	Storage Tank	VOC	0.04	<0.01
S-669	Storage Tank	VOC	2.88	0.10
S-670	Storage Tank	VOC	0.56	0.01
S-671	Storage Tank	VOC	1.77	0.03
S-672	Storage Tank	VOC	0.95	0.02
S-673	Storage Tank	VOC	1.18	0.04
S-676	Storage Tank	VOC	<0.01	<0.01
S-680	Storage Tank	VOC	32.09	0.24
S-686	Storage Tank	VOC	1.65	0.01
S-690	Storage Tank	VOC	20.83	0.29
S-691	Storage Tank	VOC	0.44	0.01
S-692	Storage Tank	VOC	0.85	0.01
S-693	Storage Tank	VOC	0.03	<0.01
S-694	Storage Tank	aq. ZnCl ₂	1.13	0.02
S-695	Storage Tank	VOC	0.44	0.01
S-696	Storage Tank	aq. NH ₃	0.03	<0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
S-701	Storage Tank	VOC	6.91	0.08
S-703	Storage Tank	VOC	6.91	0.08
S-704	Storage Tank	VOC	4.33	0.07
S-705	Storage Tank	VOC	2.42	0.04
S-706	Storage Tank	VOC	1.47	0.07
S-707	Storage Tank	VOC	6.68	0.02
S-708	Storage Tank	aq. HCl	1.24	0.03
S-710	Storage Tank	VOC	0.05	<0.01
S-711	Storage Tank	VOC	6.10	0.03
S-712	Storage Tank	VOC	0.04	<0.01
S-713	Storage Tank	VOC	2.52	0.05
S-714	Storage Tank	VOC	4.75	0.82
S-715	Storage Tank	VOC	0.56	0.01
S-716	Storage Tank	VOC	0.21	<0.01
S-717	Storage Tank	VOC	0.75	0.02
S-718	Storage Tank	VOC	<0.01	<0.01
S-719	Storage Tank	VOC	1.78	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
S-720	Storage Tank	VOC	6.70	0.43
S-721	Storage Tank	VOC	1.73	0.03
S-722	Storage Tank	VOC	0.54	0.02
S-723	Storage Tank	VOC	1.25	0.03
S-724	Storage Tank	VOC	32.59	0.99
S-725	Storage Tank	VOC	2.75	0.02
S-726	Storage Tank	VOC	1.23	0.03
S-727	Storage Tank	VOC	1.23	0.03
S-728	Storage Tank	VOC	1.03	0.02
S-729	Storage Tank	VOC	3.18	0.13
S-730	Storage Tank	VOC	1.65	0.02
S-731	Storage Tank	VOC	1.21	0.01
S-732	Storage Tank	VOC	5.73	0.03
S-733	Storage Tank	VOC	0.41	0.03
S-734	Storage Tank	aq. NaHSO ₃	<0.01	<0.01
S-735	Storage Tank	VOC	1.42	0.05
S-736	Storage Tank	VOC	2.24	0.02
S-737	Storage Tank	VOC	0.65	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
S-741A	Storage Tank	VOC	0.59	0.01
S-741B	Storage Tank	VOC	0.09	<0.01
S-741C	Storage Tank	VOC	<0.01	<0.01
S-742A	Storage Tank	VOC	1.79	0.03
S-742B	Storage Tank	VOC	0.04	<0.01
S-742C	Storage Tank	VOC	<0.01	<0.01
S-743A	Storage Tank	VOC	0.80	0.02
S-743B	Storage Tank	VOC	0.80	0.02
S-743C	Storage Tank	VOC	0.80	0.02
S-744A	Storage Tank	VOC	0.71	0.02
S-744B	Storage Tank	VOC	0.58	0.01
S-744C	Storage Tank	VOC	0.88	0.01
S-745A	Storage Tank	VOC	1.12	0.01
S-745B	Storage Tank	VOC	1.08	0.01
S-745C	Storage Tank	VOC	0.60	0.07
S-746A	Storage Tank	VOC	0.66	0.01
S-746B	Storage Tank	VOC	0.60	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
S-746C	Storage Tank	VOC	0.80	0.02
S-747A	Storage Tank	VOC	0.64	0.01
S-747B	Storage Tank	VOC	0.64	0.01
S-747C	Storage Tank	VOC	0.64	0.01
S-748A	Storage Tank	VOC	0.66	0.01
S-748B	Storage Tank	VOC	0.66	0.01
S-748C	Storage Tank	VOC	0.37	0.01
S-749	Storage Tank	aq. NaOH	0.63	0.04
S-750	Storage Tank	VOC	4.58	0.35
S-751	Storage Tank	VOC	<0.01	<0.01
S-752	Storage Tank	VOC	0.25	<0.01
S-753	Storage Tank	VOC	0.74	0.03
S-754	Storage Tank	VOC	0.47	0.02
S-760	Storage Tank	VOC	1.92	0.02
S-761	Storage Tank	VOC	0.42	0.01
S-762	Storage Tank	VOC	0.11	0.01
S-773	Storage Tank	VOC	1.32	0.01
S-774	Storage Tank	VOC	0.71	0.02

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
S-775	Storage Tank	VOC	1.22	0.02
S-776	Storage Tank	VOC	0.26	<0.01
S-777	Storage Tank	VOC	0.90	0.02
S-778	Storage Tank	VOC	1.12	0.02
S-779	Storage Tank	VOC	1.13	0.02
S-780	Storage Tank	VOC	1.25	0.06
S-781	Storage Tank	VOC	1.95	0.01
S-785	Storage Tank	VOC	2.18	0.02
S-786	Storage Tank	VOC	0.32	0.01
S-789	Storage Tank	VOC	5.61	0.02
S-790	Storage Tank	VOC	0.11	<0.01
S-791	Storage Tank	VOC	5.61	0.02
S-792	Storage Tank	VOC	<0.01	<0.01
S-793	Storage Tank	VOC	0.04	<0.01
S-794	Storage Tank	VOC	1.73	0.02
S-795	Storage Tank	VOC	1.72	0.03
S-796	Storage Tank	VOC	1.21	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			<u>lb/hr</u>	<u>TPY**</u>
S-797	Storage Tank	VOC	<0.01	<0.01
S-798	Storage Tank	VOC	<0.01	<0.01
S-799	Storage Tank	VOC	0.42	0.01
S-801	Storage Tank	VOC	0.84	0.01
S-802	Storage Tank	VOC	17.96	0.19
S-803	Storage Tank	VOC	1.72	0.04
S-804	Storage Tank	VOC	4.87	0.27
S-810	Storage Tank	VOC	1.05	0.02
S-811	Storage Tank	VOC	4.56	0.95
S-812	Storage Tank	VOC	5.33	0.87
S-813	Storage Tank	VOC	4.86	0.26
S-815	Storage Tank	aq. H ₃ PO ₄	0.33	0.02
S-816	Storage Tank	VOC	1.95	0.10
S-817	Storage Tank	aq. H ₃ PO ₃	<0.01	<0.01
S-818	Storage Tank	aq. H ₃ PO ₄	1.56	0.04
S-820	Storage Tank	VOC	2.13	0.17
S-821	Storage Tank	VOC	1.40	0.03
S-822	Storage Tank	VOC	<0.01	<0.01

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			<u>lb/hr</u>	<u>TPY**</u>
S-823	Storage Tank	VOC	6.04	0.05
S-824	Storage Tank	VOC	1.32	0.40
S-825	Storage Tank	VOC	4.75	0.93
S-836	Storage Tank	aq. H ₃ PO ₃	0.01	<0.01
S-837	Storage Tank	aq. AlCl ₃	1.10	0.07
S-838	Storage Tank	aq. AlCl ₃	1.10	0.07
S-844	Storage Tank	VOC	2.29	0.02
S-845	Storage Tank	VOC	1.87	0.02
S-846	Storage Tank	VOC	0.04	<0.01
S-847	Storage Tank	VOC	0.92	<0.01
S-848	Storage Tank	VOC	0.25	0.01
S-859	Storage Tank	VOC	0.06	<0.01
S-860	Storage Tank	VOC	<0.01	<0.01
S-782	Storage Tank	VOC	6.91	0.14
S-783	Storage Tank	VOC	6.91	0.14
S-863	Storage Tank	VOC	2.45	0.02
T-115	Storage Tank	VOC	6.91	0.01

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			<u>lb/hr</u>	<u>TPY**</u>
CAS	Carbon Adsorber	VOC	0.58	0.04
PFCLN	Cleaning Station	VOC	1.71	1.00
BOILER	Boiler	CO	0.37	1.60
		NO _x	1.47	6.42
		PM	0.05	0.23
		SO ₂	0.01	0.03
		VOC	0.03	0.13
D2	Boiler	CO	0.07	0.31
		NO _x	0.35	1.53
		PM	0.02	0.08
		SO ₂	<0.01	0.01
		VOC	0.02	0.08
D4	Boiler D4	CO	0.57	0.01
		NO _x	2.27	9.93
		PM	0.08	0.36
		SO ₂	0.01	0.04
		VOC	0.05	0.20
D3	Vaporizer D3	CO	0.47	2.04
		NO _x	1.87	8.17
		PM	0.07	0.29
		SO ₂	0.01	0.04
		VOC	0.04	0.16
CT-1	Cooling Tower	VOC	0.17	0.74
ADM-FUG	Adomite Building Fugitives (4)	PM	0.01	0.01
ADMDC	Dust Collector	PM	0.01	0.01

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			<u>lb/hr</u>	<u>TPY**</u>

- (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) AlCl_3 - aluminum chloride
 aq. - substance is in an aqueous solution
 CO - carbon monoxide
 HCl - hydrogen chloride
 H_3PO_3 - phosphorous acid
 H_3PO_4 - phosphoric acid
 NaHSO_3 - sodium bisulfite
 NaOH - sodium hydroxide
 NH_3 - ammonia
 NO_x - total oxides of nitrogen
 PM - particulate matter, suspended in the atmosphere, including PM_{10}
 PM_{10} - 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.
 SO_2 - sulfur dioxide
 VOC - volatile organic compounds as defined in 30 Texas Administrative Code Section 101.1
 ZnCl_2 - zinc chloride
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

* Emission rates are based on operating 8,760 hours per year.

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

Dated October 25, 2002