

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

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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)	<u>Emission Rates *</u>	
			lb/hr	TPY
INCIN1	Incinerator No. 1	NOx	2.70	11.83
		CO	0.54	2.37
		SO2	0.02	0.07
		VOC	5.14	0.90
		PM	0.14	0.59
INCIN2	Incinerator No. 2	NOx	2.70	11.83
		CO	0.54	2.37
		SO2	0.02	0.07
		VOC	5.14	0.90
		PM	0.14	0.59
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
M-205	Blender	VOC	9.66	0.47
M-214	Blender	VOC	19.32	0.12
M-215	Blender	VOC	6.75	0.08
M-216	Blender	VOC	16.94	0.23
M-226	Blender	VOC	12.20	0.12
FUG	Plant Fugitives (4)	VOC	12.34	54.03
AREA-1	Loading	VOC	6.00	2.24
AREA-2	Loading	VOC	6.00	0.08
AREA-3	Loading	VOC	6.000	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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates*</u> TPY	
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
M-222	Storage Tank		VOC	21.46	0.21
M-224	Storage Tank		VOC	21.46	0.09
S-602	Storage Tank		VOC	<0.01	0.03
S-603	Storage Tank		VOC	1.95	0.36
S-604	Storage Tank		VOC	15.59	0.62
S-605	Storage Tank		VOC	16.75	0.02
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
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	1.27	0.01
S-627	Storage Tank		VOC	0.21	<0.01
S-628	Storage Tank		VOC	0.74	0.01
S-629	Storage Tank		VOC	0.76	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates*</u> TPY	
S-630	Storage Tank		VOC	0.79	0.01
S-631	Storage Tank		VOC	0.36	<0.01
S-632	Storage Tank		VOC	0.01	<0.01
S-633	Storage Tank		VOC	0.42	<0.01
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	0.66	0.01
S-638	Storage Tank		VOC	0.95	0.01
S-639	Storage Tank		VOC	0.95	0.01
S-640	Storage Tank		VOC	0.84	0.01
S-641	Storage Tank		VOC	1.56	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	1.51
S-646	Storage Tank		VOC	21.57	0.13
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
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

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates*</u> TPY	
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	13.44	0.17
S-692	Storage Tank		VOC	0.85	0.01
S-693	Storage Tank		VOC	0.03	<0.01
S-694	Storage Tank		aq. ZnCl2	1.13	0.02
S-695	Storage Tank		VOC	0.45	0.01
S-696	Storage Tank		aq. NH3	0.03	<0.01
S-698	Storage Tank		VOC	10.96	0.24
S-699	Storage Tank		VOC	13.15	0.22
S-701	Storage Tank		VOC	21.57	0.09
S-703	Storage Tank		VOC	21.57	0.13
S-704	Storage Tank		VOC	<0.01	0.04
S-705	Storage Tank		VOC	4.85	0.04
S-706	Storage Tank		VOC	2.48	0.05
S-707	Storage Tank		VOC	6.68	0.02
S-708	Storage Tank		aq. HCl	2.51	0.04
S-710	Storage Tank		VOC	0.42	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	5.43	0.04
S-714	Storage Tank		VOC	4.75	0.82
S-715	Storage Tank		VOC	0.56	0.01
S-716	Storage Tank		VOC	0.37	<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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DATA				AIR CONTAMINANTS	
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates*</u> TPY	
S-720	Storage Tank		VOC	1.99	0.02
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	19.20	0.27
S-727	Storage Tank		VOC	1.23	0.03
S-728	Storage Tank		VOC	1.03	0.02
S-729	Storage Tank		VOC	5.00	0.04
S-730	Storage Tank		VOC	<0.01	<0.01
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. NaHSO3	<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	0.66	0.01
S-741A	Storage Tank		VOC	0.92	0.02
S-741B	Storage Tank		VOC	0.07	<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

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DATA				AIR CONTAMINANTS	
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates*</u> TPY	
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	0.56	0.01
S-746A	Storage Tank		VOC	0.66	0.01
S-746B	Storage Tank		VOC	<0.01	<0.01
S-746C	Storage Tank		VOC	0.80	0.02
S-747A	Storage Tank		VOC	1.95	0.03
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	1.051	0.07
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-767	Storage Tank		VOC	4.86	0.60
S-768	Storage Tank		VOC	4.75	0.91
S-769	Storage Tank		VOC	4.75	0.68
S-773	Storage Tank		VOC	1.64	0.02
S-774	Storage Tank		VOC	0.71	0.02
S-775	Storage Tank		VOC	1.32	0.02

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DATA				AIR CONTAMINANTS	
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates*</u>		
		lb/hr	TPY		
S-776	Storage Tank	VOC	1.14	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	0.42	0.01	
S-789	Storage Tank	VOC	5.61	0.02	
S-790	Storage Tank	VOC	0.07	<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	1.73	0.02	
S-796	Storage Tank	VOC	1.21	0.03	
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	1.20	0.03	
S-804	Storage Tank	VOC	0.66	0.02	
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. H3PO4	0.33	0.02	
S-816	Storage Tank	VOC	1.95	0.10	

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DATA				AIR CONTAMINANTS	
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	lb/hr	<u>Emission Rates*</u> TPY	
S-817	Storage Tank	aq. H3PO3		<0.01	<0.01
S-818	Storage Tank	aq. H3PO4		1.56	0.04
S-820	Storage Tank	VOC		2.13	0.17
S-821	Storage Tank	VOC		1.00	0.02
S-822	Storage Tank	VOC		<0.01	<0.01
S-823	Storage Tank	VOC		6.04	0.05
S-824	Storage Tank	VOC		1.95	0.34
S-825	Storage Tank	VOC		4.75	0.93
S-836	Storage Tank	aq. H3PO3		<0.01	<0.01
S-837	Storage Tank	aq. AlCl3		1.10	0.07
S-838	Storage Tank	aq. AlCl3		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		<0.01	<0.01
S-848	Storage Tank	VOC		0.25	0.01
CAS	Carbon Adsorber	VOC		0.01	0.04
BOILER	Boiler	PM		0.05	0.23
		SO2		0.01	0.03
		NOx		1.47	6.42
		CO		0.37	1.60
		VOC		0.03	0.13
D2	Boiler	PM		0.02	0.08
		SO2		<0.01	0.01
		NOx		0.35	1.53
		CO		0.07	0.31
		VOC		0.02	0.08
D4	Boiler D4	PM		0.08	0.36
		SO2		0.01	0.04
		NOx		2.27	9.93
		CO		0.57	0.01
		VOC		0.05	0.20
D3	Vaporizer D3	PM		0.07	0.29
		SO2		0.01	0.04
		NOx		1.87	8.17
		CO		0.47	2.04

		VOC	0.04	0.16
CT-1	Cooling Tower	VOC	0.17	0.74
D4	Boiler D4	PM	0.08	0.36
		SO2	0.01	0.04
		NOx	2.27	9.93
		CO	0.57	0.01
		VOC	0.05	0.20
D3	Vaporizer D3	PM	0.07	0.29
		SO2	0.01	0.04
		NOx	1.87	8.17
		CO	0.47	2.04
		VOC	0.04	0.16

- (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.

(Continued)

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

- (3) PM - particulate matter
VOC - volatile organic compounds as defined in General Rule 101.1
NOx - total oxides of nitrogen
SO₂ - sulfur dioxide
CO - carbon monoxide
NaHSO₃ - sodium bisulfite
H₃PO₃ - phosphorous acid
H₃PO₄ - phosphoric acid
AlCl₃ - aluminum chloride
ZnCl₂ - zinc chloride
NH₃ - ammonia
HCl - hydrogen chloride
NaOH - sodium hydroxide
aq. - substance is in an aqueous solution
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- * 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