

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 21731

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, sources, and related activities. 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	
			lbs/hour	TPY (4)
1	Scrubber Stack	HCl	0.19	0.05
		Al(OH) <sub>3</sub>	0.01	0.01
2	AlCl <sub>3</sub> Tank Vents (T-4901, T-4902, T-4903, T-4906 and T-4909)	AlCl <sub>3</sub>	0.04	0.04
3	Fugitives (5)	IOC-U	0.77	3.34
4	Boilers	NO <sub>x</sub>	0.50	2.19
		CO	0.42	1.84
		SO <sub>2</sub>	0.01	0.01
		PM	0.04	0.17
		PM <sub>10</sub>	0.04	0.17
		PM <sub>2.5</sub>	0.04	0.17
		VOC	0.03	0.12
5	Aluminum Melter	NO <sub>x</sub>	0.15	0.65
		CO	0.13	0.55
		SO <sub>2</sub>	0.01	0.01
		PM	0.02	0.05
		PM <sub>10</sub>	0.02	0.05
		PM <sub>2.5</sub>	0.02	0.05
		VOC	0.01	0.04
6	Kettle No. 1	Aluminum Salts	0.01	0.05

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7	Kettle No. 2	Aluminum Salts	0.01	0.05
8	Kettle No. 3	Aluminum Salts	0.01	0.05
9	Kettle No. 4	Aluminum Salts	0.01	0.05
10	Silo	Al(OH) <sub>3</sub>	0.01	0.05
11	Water White ACS Tanks (T-4907 and T-4908)	AlCl <sub>3</sub>	0.02	0.01
12	Filtered ACH Tanks (T-7903, T-7904, T-7905 and T-7907)	Aluminum Salts	0.11	0.13
13	Slurry Pots (B-202-1 and BB-202-2)	Aluminum Salts	0.24	1.94
14	Unfiltered ACH Tanks (T-7901, T-7902, T-7906 and T-7908)	Aluminum Salts	0.24	0.23
15	Weak ACS (T-4910)	AlCl <sub>3</sub>	0.02	0.01
16	Boiler 2	NO <sub>x</sub>	0.98	4.30
		CO	0.83	3.61
		SO <sub>2</sub>	0.01	0.03
		PM	0.08	0.33
		PM <sub>10</sub>	0.08	0.33
		PM <sub>2.5</sub>	0.08	0.33
		VOC	0.06	0.24
17-a	PPAC Tank 1	Aluminum Salts	0.04	0.17
17-b	PPAC Tank 2	Aluminum Salts	0.04	0.17
17-c	PPAC Tank 3	Aluminum Salts	0.04	0.17
17-d	PPAC Tank 4	Aluminum Salts	0.04	0.17
17-e	PPAC Tank 5	Aluminum Salts	0.04	0.17
17-f	PPAC Tank 6	Aluminum Salts	0.04	0.17

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18	Cooling Tower	PM	0.01	0.04
		PM <sub>10</sub>	0.01	0.04
		PM <sub>2.5</sub>	0.01	0.04
19-2	Silos 2	Alumina Trihydrate	0.02	0.08
19-3	Silos 3	Alumina Trihydrate	0.02	0.08
19-4	Silos 4	Alumina Trihydrate	0.02	0.08
20	Kettle No. 5	Aluminum Salts	0.01	0.05
21	Kettle No. 6	Aluminum Salts	0.01	0.05
22	Kettle No. 7	Aluminum Salts	0.01	0.05
23-a	Blend Tank 1	Aluminum Salts	0.04	0.01
23-b	Blend Tank 2	Aluminum Salts	0.04	0.01
LOAD 1	Truck Loading	Aluminum Salts	0.68	0.69
LOAD 2	Container Loading	HCl	5.96	0.86
LOAD 3	Truck Loading	Aluminum Salts	0.59	0.09
LOAD 4	Tote/Drum Loading	Aluminum Salts	0.46	0.06

- (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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- IOC-U - inorganic compounds (unspeciated)
- NO<sub>x</sub> - total oxides of nitrogen
- SO<sub>2</sub> - sulfur dioxide
- PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented
- PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented
- PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- AlCl<sub>3</sub> - aluminum chloride
- Al(OH)<sub>3</sub> - aluminum hydroxide
- HCl - hydrogen chloride
- (4) Compliance with annual emission limits (tons per year) is based on a 12 month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

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Date: March 10, 2015