

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 650

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.

CONTAMINANTS DATA			AIR	
Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr	
<u>TPY</u>				
BR1-V065	Reactor No. 1	IOA	<0.01	<0.01
BR2-V064	Reactor No. 2	VOC	0.44	0.06
BR3-V070	Reactor No. 3	VOC	<0.01	<0.01
		IOA	<0.01	<0.01
BR4-V071	Reactor No. 4	VOC	<0.01	<0.01
		IOA	<0.01	<0.01
BB1-V065	Blender No. 1	VOC	0.44	0.02
		IOA	<0.01	<0.01
BB2-V077	Blender No. 2	IOA	<0.01	<0.01
BB3-078	Blender No. 3	IOA	<0.01	<0.01
BTL-V073	Loading Pad No. 1	VOC	<0.01	<0.01
BTL-V079	Loading Pad No. 2	VOC	<0.01	<0.01
BTL-V080	Loading Pad No. 3	VOC	0.07	0.05
BTL-V073	Drum Washing	VOC	0.06	0.05
BCO-V072	Condenser	VOC	<0.01	<0.01

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<u>TPY</u>				
BCY-V088	Cyclone	VOC	<0.01	<0.01
		PM	0.03	<0.01
BSC-S062	Packed Tower Scrubber	VOC	0.44	0.20
		IOA	<0.01	<0.01
		NH <sub>3</sub>	<0.01	<0.01
BSC-S063	Caustic Scrubber	SO <sub>2</sub>	5.31	3.01
		VOC	<0.01	<0.01
		H <sub>2</sub> O <sub>2</sub>	<0.01	<0.01
BSC-S070	Truck Loading Scrubber	VOC	0.08	0.06
BVS-V075	Carbon Canister	VOC	<0.01	<0.01
BVS-V090	Organic PAA CAS	VOC	<0.01	<0.01
		H <sub>2</sub> O <sub>2</sub>	<0.01	<0.01
AFP-V087	Diesel Tank	VOC	0.02	<0.01
BT1-V002	Storage Tank	VOC	<0.01	<0.01
BT1-V003	Blender Tank	VOC	<0.01	<0.01
BT1-V004	Storage Tank	VOC	<0.01	<0.01
BT1-V005	Storage Tank	VOC	<0.01	<0.01
BT1-V006	Storage Tank	VOC	<0.01	<0.01
BT1-V007	Storage Tank	VOC	<0.01	<0.01

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			<u>lb/hr</u>	
BT1-V008	Storage Tank	VOC	<0.01	<0.01
BT1-V009	Storage Tank	VOC	<0.01	<0.01
BT2-V011	Storage Tank	VOC	<0.01	<0.01
BT2-V012	Storage Tank	VOC	<0.01	<0.01
BT2-V013	Storage Tank	VOC	<0.01	<0.01
BT2-V014	Storage Tank	VOC	<0.01	<0.01
BT2-V015	Storage Tank	VOC	<0.01	<0.01
BT2-V016	Storage Tank	VOC	<0.01	<0.01
BT2-V017	Storage Tank	VOC	<0.01	<0.01
BT2-V018	Storage Tank	VOC	<0.01	<0.01
BT2-V019	Storage Tank	VOC	<0.01	<0.01
BT2-V020	Storage Tank	VOC	<0.01	<0.01
BT2-V021	Storage Tank	VOC	<0.01	<0.01
BT2-V022	Storage Tank	VOC	<0.01	<0.01
BT2-V023	Storage Tank	VOC	<0.01	<0.01
BT2-V024	Storage Tank	VOC	<0.01	<0.01
BT2-V025	Storage Tank	VOC	<0.01	<0.01
BT2-V026	Storage Tank	VOC	<0.01	<0.01

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<u>TPY</u>				
BT2-V027	Phosphoric Acid Tank	H <sub>3</sub> PO <sub>4</sub>	0.44	0.07
BT2-V028	Acrylic Acid CAS	VOC	<0.01	<0.01
BT2-V029	Acrylamide Tank	VOC	0.18	0.04
BT2-V030	Polyphosphoric Acid Tank <0.01		PPA	<0.01
BT2-V031	Storage Tank	VOC	<0.01	<0.01
BT2-V059	Sodium Bisulfite Tank Seal Pot	SO <sub>2</sub>	0.06	<0.01
BT2-V060	Storage Tank	VOC	<0.01	<0.01
BT3-V034	Cyclohexylamine Tank	VOC	0.55	0.19
BT3-V035	Storage Tank	VOC	6.95	0.08
BT3-V036	Methoxypropylamine Tank 0.05		VOC	0.28
BT3-V037	Storage Tank	VOC	6.95	0.08
BT3-V040	Storage Tank	VOC	6.95	0.08
BT3-V041	Storage Tank	VOC	6.95	0.08
BT3-V061	Dimethylamine Tank	VOC	1.10	0.05
BT4-V094	NaHSO <sub>3</sub> Tank 1	SO <sub>2</sub>	0.06	<0.01

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			<u>lb/hr</u>	
<u>TPY</u>				
BT4-V095	NaHSO <sub>3</sub> Tank 2	SO <sub>2</sub>	0.03	<0.01
BT4-V096	H <sub>2</sub> O <sub>2</sub> Feed Tank	H <sub>2</sub> O <sub>2</sub>	0.01	<0.01
MFP-V086	Diesel Tank	VOC	0.04	<0.01
MFS-V007	Gasoline Tank	VOC	2.77	0.14
MFS-V008	Diesel Tank	VOC	0.06	<0.01
RT4-V001	Storage Tank R-1	VOC	<0.01	<0.01
RT4-V002	Storage Tank R-2	VOC	<0.01	<0.01
RT4-V003	Storage Tank R-3	VOC	<0.01	<0.01
BBR-S049	Boiler	PM <sub>10</sub>	<0.01	<0.01
		VOC	<0.01	<0.01
		SO <sub>2</sub>	<0.01	<0.01
		NO <sub>x</sub>	0.02	0.09
		CO	<0.01	0.02
BBR-S096	Boiler	PM <sub>10</sub>	0.02	0.09
		VOC	0.02	0.09
		SO <sub>2</sub>	<0.01	0.01
		NO <sub>x</sub>	0.39	1.72
		CO	0.08	0.34
APW-V085	Potable Water Treatment	Cl <sub>2</sub>	0.15	0.07
BSU-V081	Sump	VOC	<0.01	<0.01
BSU-V082	Sump	VOC	<0.01	<0.01

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<u>TPY</u>				
BEF-S054	Clarifier	VOC	<0.01	<0.01
BS4-V103	PE/Blend Room Scrubber No. 4	VOC	0.28	0.11
BB4-F104	Blender No. 4	VOC	<0.01	<0.01
M00-V084	Fugitives (4)	VOC	0.05	0.22
B00-E076	Fugitives - Flammable Blend Building (4)	VOC	0.01	0.04
B00-E074	Fugitives - WMD Warehouse (4)	VOC	3.92	2.35
B00-V083	Fugitives - Dedicated Tank Farm (4)	VOC	0.71	3.12
B00-V091	Organic Bulk Storage Fugitives (4)	VOC	0.01	0.03
B00-V092	Raw Material Unload Fugitives (4)	VOC	0.06	0.21
B00-V093	Organic Feed Tank Fugitives (4)	VOC	0.01	0.03
T00-E029	Fugitives (4)	VOC	<0.01	<0.01

(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

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TPY			

fugitive source name.

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- (3) IOA - inorganic acids  
VOC - volatile organic compounds as defined in 30 TAC Section 101.1  
PM - particulate matter  
PM<sub>10</sub> - particulate matter less than 10 microns  
NH<sub>3</sub> - ammonia  
SO<sub>2</sub> - sulfur dioxide  
H<sub>2</sub>O<sub>2</sub> - hydrogen peroxide  
H<sub>3</sub>PO<sub>4</sub> - phosphoric acid  
PPA - polyphosphoric acid  
NO<sub>x</sub> - total oxides of nitrogen  
CO - carbon monoxide  
Cl<sub>2</sub> - chlorine
- (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

Dated\_\_\_\_\_