

# Emission Sources - Maximum Allowable Emission Rates

Permit Number 3715A

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)
<b><u>Multi-Purpose Emission Sources</u></b>				
C-899	Final Product Loading	PM <sub>10</sub>	0.72	3.05
		PM <sub>2.5</sub>	0.72	3.05
K-740	Thermal Oxidizer System	VOC	0.87	0.50
		NO <sub>x</sub>	2.52	3.73
		CO	0.80	1.79
		SO <sub>2</sub>	0.05	0.22
		PM <sub>10</sub>	0.04	0.04
		PM <sub>2.5</sub>	0.04	0.04
		NH <sub>3</sub>	0.14	0.23
		HCl	3.02	0.01
		H <sub>2</sub> SO <sub>4</sub>	0.23	0.01
FUG-1	Fugitives (5)	VOC	1.87	8.18
		Cl <sub>2</sub>	0.01	0.06
		NH <sub>3</sub>	0.16	0.70
C-818	Solid Raw Material Charging	PM <sub>10</sub>	0.02	0.03
		PM <sub>2.5</sub>	0.02	0.03
EK-830	Cooling Tower (5)	VOC	0.32	1.40
		PM	0.006	0.026
		PM <sub>10</sub>	0.006	0.026

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		PM <sub>2.5</sub>	0.006	0.026
ED-802	Drum Charging Vent	VOC	0.12	0.04
		PM <sub>10</sub>	0.07	0.29
		PM <sub>2.5</sub>	0.07	0.29
C-896A	Rework System Vent	PM <sub>10</sub>	0.06	0.01
		PM <sub>2.5</sub>	0.06	0.01
J-173	Tank J-173	NaCl	0.47	0.01
J-110	Tank J-110	NaOH	0.01	0.01
<b><u>Packout Emission Sources</u></b>				
K-1891	Tank B-246-A, and B-253-A Carbon Drum	VOC	0.08	0.01
B-256	Storage Tank	VOC	4.10	0.16
B-257	Storage Tank	VOC	4.10	0.16
B-258	Storage Tank	VOC	4.10	1.93
B-259	Storage Tank	VOC	4.10	1.93
B-260	Storage Tank	VOC	0.27	0.02
K-1890	Tank J-1874, 1875, and 1879 Carbon Drum	VOC	0.01	<0.01
K-1878	Tank J-1878 Carbon Drum	VOC	0.01	<0.01
K-1892	Tank J-1880 Carbon Drum	VOC	0.04	<0.01
K-1881	Tank J-1881 Carbon Drum	VOC	0.06	<0.01
K-1882	Tank J-1882 Carbon Drum	VOC	0.06	<0.01
J-218	Storage Tank	VOC	5.12	0.53
J-219	Storage Tank	VOC	5.12	0.26
J-220	Storage Tank	VOC	4.92	0.23

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B-246-B	Storage Tank	VOC	4.10	1.92
B-253-B	Storage Tank	VOC	4.10	1.92
E-1800TKF	PO Piping Fugitives (5)	VOC	0.06	0.31
E-1800LF	PO Loading Fugitives (5)	VOC	6.38	0.40
<b><u>Planned Maintenance, Startup, and Shutdown (MSS) Emission Rate Limits</u></b>				
MSS-PO	Sludge Management	VOC		
	Small Equipment	VOC		
	Process Vessel	VOC		
	Tanks	VOC		
	Vacuum Trucks	VOC		
	Maintenance, Start-Up, and Shut-Down for the Pack-Out Plant	VOC	57.91	0.05
MSS-MPP	K-740 Downtime	VOC		
	Sludge Management	VOC		
	Small Equipment	VOC		
	Process Vessel	VOC		
	Tanks	VOC		
	Vacuum Trucks	VOC		
	Loading Fugitive Dust	PM <sub>10</sub>		
		PM <sub>2.5</sub>		
	Maintenance, Start-Up, and Shut-Down for the Multi Purpose Plant (MPP)	VOC	1.96	0.03
		PM <sub>10</sub>	0.06	0.01
		PM <sub>2.5</sub>	0.06	0.01

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- (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  
NO<sub>x</sub> - total oxides of nitrogen  
SO<sub>2</sub> - sulfur dioxide  
PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, as represented  
CO - carbon monoxide  
HCl - hydrogen chloride  
H<sub>2</sub>SO<sub>4</sub> - sulfuric acid  
NH<sub>3</sub> - ammonia  
Cl<sub>2</sub> - chlorine  
NaOH - sodium hydroxide  
NaCl - sodium 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.

Date July 9, 2014  
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