

# Emission Sources - Maximum Allowable Emission Rates

Special Permit Number 18847

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 (6)	
			lbs/hour	TPY (4)
CRUSHER	P1 Crusher Operation (5) FINs (P1-HOP1, P1-FEED1, P1-CONV 1, P1-CRUSH1, P1-CONV2, P1-CONV3)	PM	0.13	0.27
		PM <sub>10</sub>	0.05	0.10
		PM <sub>2.5</sub>	0.03	0.07
FUG-BLDG1	P1/P2 Building 1 Fugitives (5) FINs (P1-BAGM1, P2-BAG2, P2-HOP3, P2-HOP2, P1-HOP5, P1-CONV5, P1-CONV4, P1-HOP3, P1-HOP2, P2-BAG1)	PM	0.03	0.13
		PM <sub>10</sub>	0.01	0.05
		PM <sub>2.5</sub>	0.01	0.03
FUG-BLDG5	P3/P4/P5 Building 5 Fugitives (5) FINs (P3-HOP2, P3B-HOP6, P3A-CONV5, P5-BAGM1, P3A-BAGM5, P3B-HOP1, P3B-ELEV1, P3B-CONV1, P3B-SCRN1, P4A-HOP1, P4B-CONV2, P4B-SCRN1, P4-HOP1, P4B-BAG1, P4A-BAG1, P3B-BAGM6, P4C-CONV2, P4C-HOP1, P4C-BAG1)	PM	0.15	0.60
		PM <sub>10</sub>	0.06	0.25
		PM <sub>2.5</sub>	0.04	0.18
MATLHANDP1	P1 Material Handling Barite Ore (5) FIN (P1-MH1)	PM	0.05	0.11
		PM <sub>10</sub>	0.02	0.04
		PM <sub>2.5</sub>	0.01	0.03
MATLHANDP2	P2 Material Handling (5) FINs (P2-PIT1, P2-MH1, P2-TRK2, P2-RAIL1)	PM	0.03	0.11
		PM <sub>10</sub>	0.01	0.03
		PM <sub>2.5</sub>	<0.01	0.02

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MATLHANDP4	P4 Material Handling (5) FINs (P4B-ELEV1, P4B-CONV1, P4C- RAIL1, P4B-HOP1, P4C-TRK1, P4C- PIT1)	PM	0.10	0.43
		PM <sub>10</sub>	0.02	0.10
		PM <sub>2.5</sub>	0.01	0.06
STOCKPILE1	P1 Barite Ore Stockpile (5) FIN (P1-SP-1)	PM	0.18	0.37
		PM <sub>10</sub>	0.03	0.06
		PM <sub>2.5</sub>	0.01	0.02
VENT-A	P1 Rotary Kiln Dryer Baghouse Stack  FIN (P1-DRY1)	PM	0.31	1.29
		PM <sub>10</sub>	0.13	0.54
		PM <sub>2.5</sub>	0.07	0.31
		CO	0.74	3.25
		NO <sub>x</sub>	0.88	3.87
		VOC	0.05	0.21
		SO <sub>2</sub>	<0.01	0.02
VENT-B	P1 Ring Roller Mill 1 Baghouse Stack FINs (P1-CONV 7,P1- HOP4, P1-FEED2, P1- RM1, P1-CONV6, P1- ELEV2, P1-SILO9, P1- SILO1, P1-ELEV1)	PM	0.46	1.89
		PM <sub>10</sub>	0.32	1.32
		PM <sub>2.5</sub>	0.11	0.47
VENT-C	P2-Silo2/Silo10 Bin Vent Filter FINs (P2-TRK1, P2- CONV1, P2-ELEV1, P2-SILO10, P2-SILO2)	PM	0.01	0.04
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
VENT-D	P2 Ring Roller Mill 2 Baghouse Stack FINs (P2-RM2, P2- HOP1, P2-CONV2)	PM	0.24	1.00
		PM <sub>10</sub>	0.20	0.84
		PM <sub>2.5</sub>	0.07	0.30

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VENT-E	P2 Silo3 Bin Vent Filter FINs (P2-CONV3, P2-CONV4, P2-SILO3)	PM	0.03	0.13
		PM <sub>10</sub>	<0.01	0.02
		PM <sub>2.5</sub>	<0.01	0.01
VENT-F	P2 Silo 4 Bin Vent Filter FINs (P2-SILO4)	PM	0.03	0.12
		PM <sub>10</sub>	<0.01	0.02
		PM <sub>2.5</sub>	<0.01	0.01
VENT-G	P3 Silo 6 Bin Vent Filter FINs (P3A-CONV4, P4A-SILO6, P4A-CONV1, P3A-SILO6)	PM	0.18	0.74
		PM <sub>10</sub>	0.03	0.12
		PM <sub>2.5</sub>	0.01	0.05
VENT-H	P3 FEM Mill 1 Baghouse Stack FINs (P3-FEED1, P3-FEM1-5)	PM	0.26	1.08
		PM <sub>10</sub>	0.22	0.91
		PM <sub>2.5</sub>	0.08	0.32
VENT-I	P3 FEM Mill 5 Baghouse Stack FINs (P3-FEED1, P3-FEM1-5)	PM	0.26	1.08
		PM <sub>10</sub>	0.22	0.91
		PM <sub>2.5</sub>	0.08	0.32
VENT-J	P3 Bagging Hopper 5 Bin Vent Filter FINs (P3-CONV6, P3A-HOP5)	PM	<0.01	0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
VENT-K	P3 Silo 11 Bin Vent Filter FIN (P3B-SILLO11)	PM	0.02	0.08
		PM <sub>10</sub>	<0.01	0.01
		PM <sub>2.5</sub>	<0.01	<0.01
VENT-M	P4 Bagging Hopper 2 Bin Vent Filter FINs (P4A- HOP2)	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<0.01	<0.01
VENT-N	P4 Silo 2/Silo 10 Bin Vent Filter FINs (P4C-CONV1, P4C-ELEV1, P4C-SILO 2, P4C-SILO10)	PM	0.06	0.25
		PM <sub>10</sub>	0.01	0.04
		PM <sub>2.5</sub>	<0.01	0.02
VENT-Q	P4 Bagging Hopper 3 Bin Vent Filter FINs (P4C-HOP2)	PM	<0.01	0.01
		PM <sub>10</sub>	<0.01	<0.01

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		PM <sub>2.5</sub>	<0.01	<0.01
VENT-R	P4 Bagging Hopper 4 Bin Vent Filter FIN (P4B-HOP2)	PM	<0.01	<0.01
		PM <sub>10</sub>	<0.01	<0.01
		PM <sub>2.5</sub>	<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 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 - 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
- (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.
- (6) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: January 27, 2017