

Emission Sources - Maximum Allowable Emission Rates

Permit Number 73233

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 (5)	
			lbs/hour	TPY (4)
M1	Main Elevator, Elevator No. 1 Truck Receiving Pit	PM	2.55	0.89
		PM ₁₀	0.38	0.13
		PM _{2.5}	0.06	0.02
M2	Main Elevator, Elevator No. 2 Truck Receiving Pit	PM	4.08	0.89
		PM ₁₀	0.60	0.13
		PM _{2.5}	0.10	0.02
M3	Main Elevator, Elevator No. 3 North Truck Receiving Pit	PM	3.57	0.89
		PM ₁₀	0.53	0.13
		PM _{2.5}	0.09	0.02
M4	Main Elevator, Elevator No. 3, South Truck Receiving Pit	PM	3.57	0.89
		PM ₁₀	0.53	0.13
		PM _{2.5}	0.09	0.02
M5	Main Elevator, Elevator No. 3, Truck Receiving Pit No. 4	PM	3.57	0.89
		PM ₁₀	0.53	0.13
		PM _{2.5}	0.09	0.02
M6	Main Elevator, Elevator No. 3, North Rail/Truck Receiving Pit	PM	1.53	0.89
		PM ₁₀	0.23	0.13
		PM _{2.5}	0.04	0.02
M7	Main Elevator, Elevator No. 3, South Rail/Truck Receiving Pit	PM	1.53	0.89
		PM ₁₀	0.23	0.13
		PM _{2.5}	0.04	0.02

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M8	Main Elevator, Portable Belt Conveyor Receiving (Shed)	PM	0.51	0.89
		PM ₁₀	0.08	0.13
		PM _{2.5}	0.01	0.02
	Main Elevator Total Receiving	PM	--	0.89
		PM ₁₀	--	0.13
		PM _{2.5}	--	0.02
Dryer M1	Main Elevator Grain Dryer	PM	26.54	11.62
		PM ₁₀	6.74	2.96
		PM _{2.5}	1.27	0.56
		VOC	0.10	0.05
		NO _x	1.80	0.95
		CO	1.52	0.80
		SO ₂	0.01	0.01
M9	Main Elevator, Elevator No. 1 Truck Loadout Spout	PM	12.90	4.52
		PM ₁₀	4.35	1.52
		PM _{2.5}	0.74	0.26
M10	Main Elevator, Elevator No. 2 Truck Loadout Spout	PM	20.64	4.52
		PM ₁₀	6.96	1.52
		PM _{2.5}	1.18	0.26
M11	Main Elevator, Elevator No. 2 Rail/ Truck Loadout Spout	PM	5.16	4.52
		PM ₁₀	1.74	1.52
		PM _{2.5}	0.29	0.26
M12	Main Elevator, Elevator No. 3 Truck Loadout Spout	PM	10.32	4.52
		PM ₁₀	3.48	1.52
		PM _{2.5}	0.59	0.26
M13	Main Elevator, Elevator No. 3, Scale and Delivery Leg Truck Loadout Spout	PM	18.06	4.52
		PM ₁₀	6.09	1.52
		PM _{2.5}	1.03	0.26

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M14	Main Elevator, Elevator No. 3, Inside Rail/Truck Loadout Spout	PM	7.74	4.52
		PM ₁₀	2.61	1.52
		PM _{2.5}	0.44	0.26
M15	Main Elevator, Elevator No. 3, Outside Rail/Truck Loadout Spout	PM	7.74	4.52
		PM ₁₀	2.61	1.52
		PM _{2.5}	0.44	0.26
M16	Main Elevator, Elevator No. 3, Bins 148 & 149, Truck Loadout Spout	PM	15.48	4.52
		PM ₁₀	5.22	1.52
		PM _{2.5}	0.88	0.26
M17	Main Elevator, Elevator No. 3 Gluten Truck Loadout Spout	PM	7.74	4.52
		PM ₁₀	2.61	1.52
		PM _{2.5}	0.44	0.26
M18	Main Elevator, Front End Loader, Truck Loadout	PM	10.32	4.52
		PM ₁₀	3.48	1.52
		PM _{2.5}	0.59	0.26
M19	Main Elevator, Grain Vacuum, Truck Loadout Spout	PM	15.48	4.52
		PM ₁₀	5.22	1.52
		PM _{2.5}	0.88	0.26
	Main Elevator Total Loadout	PM	--	4.52
		PM ₁₀	--	1.52
		PM _{2.5}	--	0.26
C1	Castro Elevator, Concrete Bins, Truck Receiving Pit	PM	2.55	0.54
		PM ₁₀	0.38	0.08
		PM _{2.5}	0.06	0.01
C2	Castro Elevator, Steel Bins, Inside Truck Receiving Pit	PM	1.53	0.54
		PM ₁₀	0.23	0.08
		PM _{2.5}	0.04	0.01
C3	Castro Elevator, Steel Bins, Outside Truck	PM	1.02	0.54

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		PM ₁₀	0.15	0.08
		PM _{2.5}	0.03	0.01
C4	Castro Elevator, Portable Belt Conveyor Receiving	PM	0.51	0.54
		PM ₁₀	0.08	0.08
		PM _{2.5}	0.01	0.01
	Castro Elevator Total Receiving	PM	--	0.54
		PM ₁₀	--	0.08
		PM _{2.5}	--	0.01
Dryer C5	Castro Elevator Grain Dryer	PM	13.27	3.98
		PM ₁₀	3.37	1.01
		PM _{2.5}	0.63	0.19
		VOC	0.05	0.02
		NO _x	0.90	0.30
		CO	0.76	0.25
		SO ₂	0.01	<0.01
C6	Castro Elevator, Concrete Bins, Inside Truck Loadout Spout	PM	12.90	2.71
		PM ₁₀	4.35	0.91
		PM _{2.5}	0.74	0.15
C7	Castro Elevator, Concrete Bins Outside Truck Loadout Spout	PM	7.74	2.71
		PM ₁₀	2.61	0.91
		PM _{2.5}	0.44	0.15
C8	Castro Elevator, Steel Bins, Inside Truck Loadout Spout	PM	7.74	2.71
		PM ₁₀	2.61	0.91
		PM _{2.5}	0.44	0.15
C9	Castro Elevator, Steel Bins, Outside Truck Loadout Spout	PM	7.74	2.71
		PM ₁₀	2.61	0.91
		PM _{2.5}	0.44	0.15
C10	Castro Elevator, Steel Bins, Bin 24, Truck	PM	6.45	2.71

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		PM ₁₀	2.18	0.91
		PM _{2.5}	0.37	0.15
C11	Castro Elevator, Front End Loader, Truck Loadout	PM	10.32	2.71
		PM ₁₀	3.48	0.91
		PM _{2.5}	0.59	0.15
C12	Castro Elevator, Grain Vacuum, Truck Loadout Spout	PM	15.48	2.71
		PM ₁₀	5.22	0.91
		PM _{2.5}	0.88	0.15
	Castro Elevator Total Loadout	PM	--	2.71
		PM ₁₀	--	0.91
		PM _{2.5}	--	0.15
W1	W&C Elevator, Concrete Bins, Truck Receiving Pit	PM	1.28	0.25
		PM ₁₀	0.19	0.04
		PM _{2.5}	0.03	0.01
W2	W&C Elevator, Steel Bins, Truck Receiving Pit	PM	2.55	0.25
		PM ₁₀	0.38	0.04
		PM _{2.5}	0.06	0.01
W3	W&C Elevator, Portable Belt Conveyor Receiving	PM	0.51	0.25
		PM ₁₀	0.08	0.04
		PM _{2.5}	0.01	0.01
	W&C Elevator Total Receiving	PM	--	0.25
		PM ₁₀	--	0.04
		PM _{2.5}	--	0.01
W4	W&C Elevator, Concrete Bins, Truck Loadout Spout (Overhead Bins)	PM	1.94	1.27
		PM ₁₀	0.65	0.43
		PM _{2.5}	0.11	0.07
W5	W&C Elevator, Steel Bins, Truck Loadout Spout (Bin 20)	PM	9.03	1.27
		PM ₁₀	3.05	0.43

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		PM _{2.5}	0.51	0.07
W6	W&C Elevator, Steel Bins, Truck Loadout Spout (Overhead Bins)	PM	12.90	1.27
		PM ₁₀	4.35	0.43
		PM _{2.5}	0.74	0.07
W7	W&C Elevator, Front End Loader, Truck Loadout	PM	10.32	1.27
		PM ₁₀	3.48	0.43
		PM _{2.5}	0.59	0.07
W8	W&C Elevator, Grain Vacuum, Truck Loadout	PM	15.48	1.27
		PM ₁₀	5.22	0.43
		PM _{2.5}	0.88	0.07
	W&C Elevator Total Loadout	PM	--	1.27
		PM ₁₀	--	0.43
		PM _{2.5}	--	0.07
CE1	Castro East Elevator Truck Receiving Pit	PM	3.57	0.15
		PM ₁₀	0.53	0.02
		PM _{2.5}	0.09	<0.01
CE2	Castro East Elevator Portable Belt Conveyor Receiving	PM	0.51	0.15
		PM ₁₀	0.08	0.02
		PM _{2.5}	0.01	<0.01
	Castro East Elevator Total Receiving	PM	--	0.15
		PM ₁₀	--	0.02
		PM _{2.5}	--	<0.01
CE3	Castro East Elevator, Bin 11, Truck Loadout Spout	PM	2.58	0.75
		PM ₁₀	0.87	0.25
		PM _{2.5}	0.15	0.04
CE4	Castro East Elevator, Bin 12, Truck Loadout Spout	PM	2.58	0.75
		PM ₁₀	0.87	0.25
		PM _{2.5}	0.15	0.04

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CE5	Castro East Elevator, Front End Loader, Truck Loadout	PM	10.32	0.75
		PM ₁₀	3.48	0.25
		PM _{2.5}	0.59	0.04
CE6	Castro East Elevator, Grain Vacuum, Truck Loadout Spout	PM	15.48	0.75
		PM ₁₀	5.22	0.25
		PM _{2.5}	0.88	0.04
	Castro East Elevator Total Loadout	PM	--	0.75
		PM ₁₀	--	0.25
		PM _{2.5}	--	0.04
S1	South Elevator, North Annex, Truck Receiving Pit	PM	1.79	0.51
		PM ₁₀	0.26	0.08
		PM _{2.5}	0.04	0.01
S2	South Elevator, South Annex, Truck Receiving Pit	PM	2.55	0.51
		PM ₁₀	0.38	0.08
		PM _{2.5}	0.06	0.01
S3	South Elevator, South Annex, Rail Receiving Pits (two pits)	PM	0.48	0.51
		PM ₁₀	0.12	0.08
		PM _{2.5}	0.02	0.01
S4	South Elevator, Portable Belt Conveyor Receiving	PM	0.51	0.51
		PM ₁₀	0.08	0.08
		PM _{2.5}	0.01	0.01
	South Elevator Total Receiving	PM	--	0.51
		PM ₁₀	--	0.08
		PM _{2.5}	--	0.01
S5	South Elevator, North Annex, Bins 6 & 7, Truck Loadout Spout	PM	12.90	2.58
		PM ₁₀	4.35	0.87
		PM _{2.5}	0.74	0.15
S6	South Elevator, North Annex, Bin 9, Truck	PM	12.90	2.58

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		PM ₁₀	4.35	0.87
		PM _{2.5}	0.74	0.15
S7	South Elevator, North Annex, Bin 13, Truck Loadout Spout	PM	12.90	2.58
		PM ₁₀	4.35	0.87
		PM _{2.5}	0.74	0.15
S8	South Elevator, North Annex, Conveyor to Pile, Truck Loadout Spout	PM	12.90	2.58
		PM ₁₀	4.35	0.87
		PM _{2.5}	0.74	0.15
S9	South Elevator, South Annex, Bin 4, Rail Loadout Spout	PM	3.24	2.58
		PM ₁₀	0.26	0.87
		PM _{2.5}	0.04	0.15
S10	South Elevator, South Annex, Bin 8, Truck Loadout Spout	PM	5.16	2.58
		PM ₁₀	1.74	0.87
		PM _{2.5}	0.29	0.15
S11	South Elevator, Front End Loader, Truck Loadout	PM	10.32	2.58
		PM ₁₀	3.48	0.87
		PM _{2.5}	0.59	0.15
S12	South Elevator, Grain Vacuum, Truck Loadout Spout	PM	15.48	2.58
		PM ₁₀	5.22	0.87
		PM _{2.5}	0.88	0.15
S13	South Elevator, South Annex, Bin 13, Truck Loadout Spout	PM	20.64	2.58
		PM ₁₀	6.96	0.87
		PM _{2.5}	1.18	0.15
	South Elevator Total Loadout	PM	--	2.58
		PM ₁₀	--	0.87
		PM _{2.5}	--	0.15

- (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

Emission Sources – Maximum Allowable Emission Rates

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}, as represented

PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}, as represented

PM_{2.5} - total 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) Planned startup and shutdown emissions are included. Maintenance activities are not authorized by this permit.

Date: May 26, 2020