

Emission Sources - Maximum Allowable Emission Rates

Permit Number 36297

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 (7)	
			lbs/hour	TPY (4)
WB1-RTO	Wheelabrator 1 Painting	VOC	0.54	1.22
		Lead	<0.01	<0.01
		PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		VOC (8)	<0.01	0.01
		PM (8)	<0.01	0.02
		PM ₁₀ (8)	<0.01	0.02
		PM _{2.5} (8)	<0.01	0.02
		SO ₂	<0.01	<0.01
		NO _x	0.02	0.11
		CO	0.04	0.18
WB2-RTO	Wheelabrator 2 Painting	VOC	1.32	2.91
		Lead	<0.01	<0.01
		PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
		VOC (8)	0.03	0.12
		PM (8)	0.04	0.16
		PM ₁₀ (8)	0.04	0.16
		PM _{2.5} (8)	0.04	0.16
		SO ₂	<0.01	0.01
		NO _x	0.25	1.07
		CO	0.41	1.80
WB1-LFUG	Wheelabrator 1 Loading	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
WB1-BAG	Wheelabrator 1 Blasting	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01

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WB1-HEAT	Wheelabrator 1 Preheater Stack	PM	0.01	0.01
		PM ₁₀	0.01	0.01
		PM _{2.5}	0.01	0.01
		SO ₂	<0.01	<0.01
		NO _x	0.10	0.18
		CO	0.08	0.15
		VOC	0.01	0.01
WB2-LDFUG	Wheelabrator 2 Loading	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
WB2-BAG	Wheelabrator 2 Blasting	PM	0.02	0.03
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
WB2-DRY	Wheelabrator 2 Dryer Stack	PM	0.01	0.02
		PM ₁₀	0.01	0.02
		PM _{2.5}	0.01	0.02
		SO ₂	<0.01	<0.01
		NO _x	0.13	0.24
		CO	0.11	0.20
		VOC	0.01	0.01
WB3-LDFUG	Wheelabrator 3 Loading	PM	<0.01	<0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
WB3-BAG	Wheelabrator 3 Blasting	PM	0.01	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
YE-FUG	Hopper Loading, Blast Pot Loading, Stockpiling/Spent Material Handling, and Spent Media Off-Site Disposal	PM	0.15	(5)
		PM ₁₀	0.07	
		PM _{2.5}	0.07	
	Blasting Operations	PM	98.84	(5)
		PM ₁₀	11.75	
		PM _{2.5}	1.76	
	Painting Operations 8am – 9am	PM	4.41	(5)
		PM ₁₀	0.40	
		PM _{2.5}	<0.01	
		VOC	281.25	

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	Painting Operations 9am – 5pm	PM	17.63	(5)
		PM ₁₀	1.59	
		PM _{2.5}	<0.01	
		VOC	1125.00	
	Painting Operations 5pm – 8am	PM	3.39	(5)
		PM ₁₀	0.31	
		PM _{2.5}	<0.01	
		VOC	360.00	
YW-FUG	Hopper Loading, Blast Pot Loading, Stockpiling/Spent Material Handling, and Spent Media Off-Site Disposal	PM	0.15	(5)
		PM ₁₀	0.07	
		PM _{2.5}	0.07	
	Painting Operations 8am – 9am	PM	4.41	(5)
		PM ₁₀	0.40	
		PM _{2.5}	<0.01	
		VOC	281.25	
	Painting Operations 9am – 5pm	PM	17.63	(5)
		PM ₁₀	1.59	
		PM _{2.5}	<0.01	
		VOC	1125.00	
	Painting Operations 5pm – 8am	PM	3.39	(5)
		PM ₁₀	0.31	
		PM _{2.5}	<0.01	
		VOC	360.00	
YWK-FUG	Hopper Loading, Blast Pot Loading, Blasting Operations, Stockpiling/Spent Material Handling, and Spent Media Off-Site Disposal	PM	13.22	(5)
		PM ₁₀	1.59	
		PM _{2.5}	0.26	
	Painting Operations 8am – 9am	PM	0.74	(5)
		PM ₁₀	0.07	
		PM _{2.5}	<0.01	
		VOC	47.25	
	Painting Operations 9am – 5pm	PM	2.96	(5)
		PM ₁₀	0.27	
		PM _{2.5}	<0.01	
		VOC	189.00	
	Painting Operations 5pm – 8am	PM	0.85	(5)

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D1-FUG	Hopper Loading, Blast Pot Loading, Blasting Operations, Vessel Tank Cleaning, and Marine Vessel Fuel Loading/Unloading	PM ₁₀	0.08	(5)
		PM _{2.5}	<0.01	
		VOC	108.00	
	Painting Operations 8am – 9am	PM	9.09	(5)
		PM ₁₀	1.09	
		PM _{2.5}	0.18	
		VOC	12.85	
	Painting Operations 9am – 5pm	PM	0.71	(5)
		PM ₁₀	0.06	
		PM _{2.5}	<0.01	
		VOC	67.50	
	Painting Operations 5pm – 8am	PM	2.82	(5)
		PM ₁₀	0.25	
		PM _{2.5}	<0.01	
		VOC	270.00	
D2-FUG	Hopper Loading, Blast Pot Loading, Blasting Operations, Vessel Tank Cleaning, and Marine Vessel Fuel Loading/Unloading	PM	0.85	(5)
		PM ₁₀	0.08	
		PM _{2.5}	<0.01	
		VOC	90.00	
	Painting Operations 8am – 9am	PM	9.09	(5)
		PM ₁₀	1.09	
		PM _{2.5}	0.18	
		VOC	12.85	
	Painting Operations 9am – 5pm	PM	0.71	(5)
		PM ₁₀	0.06	
		PM _{2.5}	<0.01	
		VOC	67.50	
	Painting Operations 5pm – 8am	PM	2.82	(5)
		PM ₁₀	0.25	
		PM _{2.5}	<0.01	
		VOC	270.00	
D3-FUG	Hopper Loading, Blast Pot Loading,	PM	0.85	(5)
		PM ₁₀	0.08	
		PM _{2.5}	<0.01	
		VOC	90.00	

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	Blasting Operations, Vessel Tank Cleaning, and Marine Vessel Fuel Loading/Unloading	PM ₁₀	1.09	
		PM _{2.5}	0.18	
		VOC	12.85	
	Painting Operations 8am – 9am	PM	0.71	(5)
		PM ₁₀	0.06	
		PM _{2.5}	<0.01	
		VOC	67.50	
	Painting Operations 9am – 5pm	PM	2.82	(5)
		PM ₁₀	0.25	
		PM _{2.5}	<0.01	
		VOC	270.00	
	Painting Operations 5pm – 8am	PM	0.85	(5)
		PM ₁₀	0.08	
		PM _{2.5}	<0.01	
		VOC	90.00	
D4-FUG	Hopper Loading, Blast Pot Loading, Blasting Operations, Vessel Tank Cleaning, and Marine Vessel Fuel Loading/Unloading	PM	9.09	(5)
		PM ₁₀	1.09	
		PM _{2.5}	0.18	
		VOC	12.85	
	Painting Operations 8am – 9am	PM	0.71	(5)
		PM ₁₀	0.06	
		PM _{2.5}	<0.01	
		VOC	67.50	
	Painting Operations 9am – 5pm	PM	2.82	(5)
		PM ₁₀	0.25	
		PM _{2.5}	<0.01	
		VOC	270.00	
	Painting Operations 5pm – 8am	PM	0.85	(5)
		PM ₁₀	0.08	
		PM _{2.5}	<0.01	
		VOC	90.00	
D5-FUG	Hopper Loading, Blast Pot Loading, Blasting Operations, Vessel Tank Cleaning, and Marine Vessel Fuel Loading/Unloading	PM	9.09	(5)
		PM ₁₀	1.09	
		PM _{2.5}	0.18	
		VOC	12.85	
	Painting Operations 8am – 9am	PM	0.71	(5)

Emission Sources - Maximum Allowable Emission Rates

		PM ₁₀	0.06	
		PM _{2.5}	<0.01	
		VOC	67.50	
	Painting Operations 9am – 5pm	PM	2.82	(5)
		PM ₁₀	0.25	
		PM _{2.5}	<0.01	
		VOC	270.00	
	Painting Operations 5pm – 8am	PM	0.85	(5)
		PM ₁₀	0.08	
		PM _{2.5}	<0.01	
		VOC	90.00	
D6-FUG	Hopper Loading, Blast Pot Loading, Blasting Operations, Vessel Tank Cleaning, and Marine Vessel Fuel Loading/Unloading	PM	9.09	(5)
		PM ₁₀	1.09	
		PM _{2.5}	0.18	
		VOC	12.85	
	Painting Operations 8am – 9am	PM	0.71	(5)
		PM ₁₀	0.06	
		PM _{2.5}	<0.01	
		VOC	67.50	
	Painting Operations 9am – 5pm	PM	2.82	(5)
		PM ₁₀	0.25	
		PM _{2.5}	<0.01	
		VOC	270.00	
	Painting Operations 5pm – 8am	PM	0.85	(5)
		PM ₁₀	0.08	
		PM _{2.5}	<0.01	
		VOC	90.00	
YD-FUG (Includes YE-FUG, YW-FUG, YWK-FUG, DI-FUG, D2-FUG, D3-FUG, D4-FUG, D5-FUG, and D6-FUG)	Painting Operations 8am – 9am	PM	4.41	(5)
		PM ₁₀	0.40	
		PM _{2.5}	<0.01	
		VOC	281.25	
	Painting Operations 9am – 5pm	PM	17.63	(5)
		PM ₁₀	1.59	
		PM _{2.5}	<0.01	
		VOC	1125.00	
	Painting Operations 5pm – 8am	PM	3.39	(5)

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		PM ₁₀	0.31	
		PM _{2.5}	<0.01	
		VOC	360.00	
	Yards and Docks Fugitives Non-Painting	PM	219.62	(5)
		PM ₁₀	26.30	
		PM _{2.5}	4.16	
		VOC	85.49	
	Yards and Docks Fugitives Painting and Non-Painting	PM	--	45.16
		PM ₁₀		5.40
		PM _{2.5}		0.88
		VOC		178.63
BH-BAG1	Blast House – Baghouse 1 Stack Steel Shot Loading and Blasting Operations	PM	0.02	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
BH-BAG2	Blast House – Baghouse 2 Stack Steel Shot Loading and Blasting Operations	PM	0.02	0.01
		PM ₁₀	<0.01	<0.01
		PM _{2.5}	<0.01	<0.01
BH-P1a	Blast House – Paint Booth 1 Stack a	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P1b	Blast House – Paint Booth 1 Stack b	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P1c	Blast House – Paint Booth 1 Stack c	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P1d	Blast House – Paint Booth 1 Stack d	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P1e	Blast House – Paint Booth 1 Stack e	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	

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		VOC	16.88	
BH-P1f	Blast House – Paint Booth 1 Stack f	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P1g	Blast House – Paint Booth 1 Stack g	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P1h	Blast House – Paint Booth 1 Stack h	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P2a	Blast House – Paint Booth 2 Stack a	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P2b	Blast House – Paint Booth 2 Stack b	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P2c	Blast House – Paint Booth 2 Stack c	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P2d	Blast House – Paint Booth 2 Stack d	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P2e	Blast House – Paint Booth 2 Stack e	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P2f	Blast House – Paint Booth 2 Stack f	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	

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		VOC	16.88	
BH-P2g	Blast House – Paint Booth 2 Stack g	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P2h	Blast House – Paint Booth 2 Stack h	PM	0.01	(6)
		PM ₁₀	<0.01	
		PM _{2.5}	<0.01	
		VOC	16.88	
BH-P1a THROUGH BH-P1h and BH-P2a THROUGH BH-P2h	Blast House – Paint Booth 1 and Blast House - Paint Booth 2	PM	--	0.01
		PM ₁₀		<0.01
		PM _{2.5}		<0.01
		VOC		31.50
DTANK	Diesel Tank	VOC	0.39	0.01
GTANK	Gasoline Tank	VOC	7.98	0.30

- (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_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM - total particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
 PM₁₀ - total particulate matter equal to or less than 10 microns in diameter, including PM_{2.5}
 PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
 CO - carbon monoxide
 HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Included in EPN YD-FUG annual emission rates.
- (6) Included in EPNs BH-P1a - BH-P1h and BH-P2a - BH-P2h
- (7) The allowable emission rates include planned maintenance, startup, and shutdown activities.
- (8) Products of Combustion

Date: October 23, 2018