

Emission Sources - Maximum Allowable Emission Rates

Special Permit Number 18925

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)
EP-1	Processing Area Stack A	VOC	<0.01	<0.01
EP-2	Processing Area Stack B	VOC	<0.01	<0.01
		Inorganics	0.25	0.50
EP-5	Fugitives - Tank Farm (5)	VOC	0.09	0.25
		Inorganics	0.02	<0.01
EP-7A/B/C/D	Truck Loading	VOC	<0.01	<0.01
		Inorganics	0.01	<0.01
EP-8	Fugitives - Manufacturing Building (5)	VOC	1.29	0.98
		Inorganics	0.05	0.03
		PM	0.06	0.02
		PM ₁₀	0.06	0.02
		PM _{2.5}	0.06	0.02
EP-9-1	Regenerative Thermal Oxidizer - Normal Operations	VOC	3.62	1.98
		Inorganics	0.40	0.83
		CO	0.04	0.18
		NO _x	0.20	0.88
		PM	0.02	0.11
		PM ₁₀	0.02	0.11
		PM _{2.5}	0.02	0.11
		SO ₂	<0.01	<0.01
EP-9-2	Carbon Adsorption System (CAS) Scrubber	VOC	<0.01	<0.01
		Inorganics	<0.01	<0.01
EP-12	Boiler No. 2	VOC	0.11	0.50
		CO	1.73	7.58
		NO _x	1.03	4.51
		PM	0.16	0.68
		PM ₁₀	0.16	0.68
		PM _{2.5}	0.16	0.68
		SO ₂	0.01	0.05

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EP-24	Equalization Tank No. 1	VOC	<0.01	<0.01
EP-24A	Equalization Tank No. 2	VOC	<0.01	<0.01
EP-25	Fugitives - Production and Cell Building No. 1 (5)	VOC	0.02	<0.01
		Inorganics	0.29	1.13
EP-25A	Fugitives - Production and Cell Building No. 2 (5)	VOC	0.09	0.03
		Inorganics	<0.01	<0.01
EP-30	Waste Anolyte Tank No. 2	VOC	0.03	<0.01
EP-31	QAS Product Tank No. 3	VOC	0.09	<0.01
EP-32	QAS Product Tank No. 1	VOC	0.10	<0.01
EP-33	QAS Product Tank No. 2	VOC	0.05	<0.01
EP-34	QAS Product Tank No. 4	VOC	0.05	<0.01
EP-35	Conversion Storage Tank No. 1	VOC	<0.01	<0.01
EP-37	Fugitives - HMW Building (5)	VOC	<0.01	<0.01
		Inorganics	0.25	0.07
EP-38	Catholyte Tank Vent	VOC	0.01	0.05
EP-39	Dilute Acid/Sodium Bromide Tank	Inorganics	<0.01	0.02
EP-40	Fugitives - FCP Tank Farm (5)	VOC	<0.01	<0.01
		Inorganics	<0.01	<0.01
EP-41	TPH Product Tank	VOC	<0.01	<0.01
EP-42	QAS Product Tank No. 5	VOC	0.06	<0.01
EP-43	CleanFlex Building Fugitives (5)	VOC	0.32	0.13
EP-44	CleanFlex Tank Farm Fugitives (5)	VOC	0.02	0.08
Planned Maintenance, Startup and Shutdown (MSS) Emissions				
EP-9-1	Demister Pad Replacement	VOC	<0.01	<0.01
	Reactor Inspection	VOC	0.03	<0.01
	RTO Weekly Maintenance	VOC	<0.01	<0.01
		CO	0.07	<0.01
		NO _x	0.08	<0.01
		PM	0.06	<0.01
		PM ₁₀	0.06	<0.01
		PM _{2.5}	0.06	<0.01
		SO ₂	<0.01	<0.01
MSS-CR	Cell Rebuilds	VOC	<0.01	<0.01
		Inorganics	<0.01	<0.01

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MSS-FR	Filter Replacements	VOC	<0.01	<0.01
		Inorganics	<0.01	<0.01
MSS-PM	Pump Maintenance	VOC	<0.01	<0.01
		Inorganics	<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
- CO - carbon monoxide
- NO_x - total oxides of nitrogen
- 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} - particulate matter equal to or less than 2.5 microns in diameter
- SO₂ - sulfur dioxide
- Inorganics include:
- HBr - hydrogen bromide
- HCl - hydrogen chloride
- HF - hydrogen fluoride
- HI - hydrogen iodine
- H₂O₂ - hydrogen peroxide
- Cl₂ - chlorine
- NH₂OH - hydroxylamine
- H₂SO₄ - sulfuric acid
- (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: March 22, 2019