

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19169

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 (1)	Source Name (2)	Air Contaminant (3)	Emission Rates	
			lbs/hour	TPY (4)
VCM-1	Incinerator	Cl <sub>2</sub>	3.88	17.01
		NO <sub>x</sub>	3.74	16.36
		CO	13.67	9.19
		HCl	1.00	4.38
		PM	1.75	7.65
		PM <sub>10</sub>	1.75	7.65
		PM <sub>2.5</sub>	1.75	7.65
		SO <sub>2</sub>	0.24	1.05
		VOC	0.21	0.88
VCM-2	Incinerator	Cl <sub>2</sub>	3.88	17.01
		NO <sub>x</sub>	3.74	16.36
		CO	13.67	9.19
		HCl	1.00	4.38
		PM	1.75	7.65
		PM <sub>10</sub>	1.75	7.65
		PM <sub>2.5</sub>	1.75	7.65
		SO <sub>2</sub>	0.24	1.05
		VOC	0.21	0.88
VCM-3	Lime Neutralization Vent	HCl	0.02	0.10
VCM-4	VCM Furnaces	NO <sub>x</sub>	5.18	11.93
		CO	12.89	56.45
		PM	2.00	8.76
		PM <sub>10</sub>	2.00	8.76
		PM <sub>2.5</sub>	2.00	8.76
		SO <sub>2</sub>	1.00	4.38
		VOC	1.45	6.35
		NH <sub>3</sub>	1.41	6.17
VCM-5	Decoke Drum	CO	40.73	---
		VOC	2.42	---

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		PM	1.24	---
		PM <sub>10</sub>	1.24	---
		PM <sub>2.5</sub>	1.24	---
		HCl	0.45	---
VCM-6	Decoke Drum	CO	40.73	---
		VOC	2.42	---
		PM	1.24	---
		PM <sub>10</sub>	1.24	---
		PM <sub>2.5</sub>	1.24	---
		HCl	0.45	---
VCM-22	Decoke Drum	CO	40.73	---
		VOC	2.42	---
		PM	1.24	---
		PM <sub>10</sub>	1.24	---
		PM <sub>2.5</sub>	1.24	---
		HCl	0.45	---
VCM-5, 6, and 22	Decoke Drums	CO	---	14.67
		VOC	---	0.87
		PM	---	0.45
		PM <sub>10</sub>	---	0.45
		PM <sub>2.5</sub>	---	0.45
		HCl	---	0.15
VCM-8	Cooling Tower	VOC	17.95	7.86
		VCM	17.95	7.86
		PM	4.08	11.92
		PM <sub>10</sub>	1.22	4.77
		PM <sub>2.5</sub>	0.04	0.12
		Cl <sub>2</sub>	0.01	0.01
VCM-9	Fugitives (5)	VOC	3.19	13.93
		VCM	0.60	2.63
		Cl <sub>2</sub>	0.17	0.73
		HCl	0.40	1.75
		NH <sub>3</sub>	0.13	0.58
VCM-9-MSS	Equipment Opening (6)	VCM	6.77	0.77
VCM-20	Limestone Unloading	PM	2.34	0.29
VCM-21	VCM Furnaces	NOx	2.59	5.96

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		CO	6.44	28.21
		PM	1.00	4.38
		PM <sub>10</sub>	1.00	4.38
		PM <sub>2.5</sub>	1.00	4.38
		SO <sub>2</sub>	0.50	2.20
		VOC	0.72	3.17
		NH <sub>3</sub>	0.70	3.09
VCM-23	Incinerator	Cl <sub>2</sub>	3.85	16.87
		NO <sub>x</sub>	2.93	12.83
		CO	12.68	4.63
		HCl	0.95	4.15
		PM	1.30	5.68
		PM <sub>10</sub>	1.30	5.68
		PM <sub>2.5</sub>	1.30	5.68
		SO <sub>2</sub>	0.10	0.44
		VOC	0.15	0.64
VCM-24	Cooling Tower	VOC	13.20	5.80
		VCM	13.20	5.80
		PM	3.00	8.77
		PM <sub>10</sub>	0.90	3.51
		PM <sub>2.5</sub>	0.03	0.09
		Cl <sub>2</sub>	0.01	0.01
COOLTWR-4	Wastewater Cooling Tower	VOC	0.90	3.94
		PM	0.11	0.47
		PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01
		Cl <sub>2</sub>	0.01	0.01

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) 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>
- PM<sub>10</sub> - particulate matter, equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>
- PM<sub>2.5</sub> - particulate matter, equal to or less than 2.5 microns in diameter
- CO - carbon monoxide
- HCl - hydrogen chloride
- Cl<sub>2</sub> - chlorine
- NH<sub>3</sub> - ammonia

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VCM - vinyl chloride monomer

- (4) Compliance with annual emission limits is based on a rolling 12-month period
- (5) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (6) Planned MSS activities. Based on one sphere opening at a time and three sphere openings a year.

Date: June 29, 2018