Emission Sources - Maximum Allowable Emission Rates

Permit Number 7195A

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)
1000-Series Tanks	Tank 1001 through 1019 Annual Cap	VOC	---	51.18
1001	Tank 1001	VOC	5.14	---
1002	Tank 1002	VOC	4.40	---
1003	Tank 1003	VOC	1.37	---
1004	Tank 1004	VOC	1.37	---
1005	Tank 1005	VOC	9.39	---
1006	Tank 1006	VOC	9.39	---
1007	Tank 1007	VOC	9.39	---
1008	Tank 1008	VOC	9.39	---
1009	Tank 1009	VOC	1.51	---
1010	Tank 1010	VOC	9.39	---
1011	Tank 1011	VOC	9.39	---
1012	Tank 1012	VOC	2.30	---
1013	Tank 1013	VOC	9.39	---
1014	Tank 1014	VOC	2.01	---
1015	Tank 1015	VOC	9.39	---
1016	Tank 1016	VOC	0.71	---
1017	Tank 1017	VOC	1.17	---
1018	Tank 1018	VOC	2.36	---
1019	Tank 1019	VOC	2.36	---
2100-Series Tank Cap	Tank 2100 through Tank 2158 Annual Cap	VOC	---	34.43
2100	Tank 2100	VOC	3.15	---
2103	Tank 2103	VOC	1.18	---

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2104	Tank 2104	VOC	1.18	---
2105	Tank 2105	VOC	1.18	---
2106	Tank 2106	VOC	1.18	---
2107	Tank 2107	VOC	1.18	---
2108	Tank 2108	VOC	1.18	---
2117	Tank 2117	VOC	9.40	---
2118	Tank 2118	VOC	9.40	---
2119	Tank 2119	VOC	9.39	---
2120	Tank 2120	VOC	9.39	---
2121	Tank 2121	VOC	9.39	---
2122	Tank 2122	VOC	9.39	---
2123	Tank 2123	VOC	9.39	---
2124	Tank 2124	VOC	9.40	---
2125	Tank 2125	VOC	9.39	---
2126	Tank 2126	VOC	9.39	---
2127	Tank 2127	VOC	9.39	---
2128	Tank 2128	VOC	9.39	---
2129	Tank 2129	VOC	0.05	---
2130	Tank 2130	VOC	14.12	---
2131	Tank 2131	VOC	14.12	---
2132	Tank 2132	VOC	14.12	---
2140	Tank 2140	VOC	2.35	---
2141	Tank 2141	VOC	9.39	---
2142	Tank 2142	VOC	2.35	---
2143	Tank 2143	VOC	9.39	---
2144	Tank 2144	VOC	2.35	---
2145	Tank 2145	VOC	9.39	---
2146	Tank 2146	VOC	2.35	---
2148	Tank 2148	VOC	2.35	---

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2150	Tank 2150	VOC	2.35	---
2151	Tank 2151	VOC	1.81	---
2152	Tank 2152	VOC	1.81	---
2153	Tank 2153	VOC	1.81	---
2154	Tank 2154	VOC	1.81	---
2155	Tank 2155	VOC	1.81	---
2156	Tank 2156	VOC	1.81	---
2157	Tank 2157	VOC	1.88	---
2158	Tank 2158	VOC	1.88	---
3200-Series Tank Cap	Tank 3200 through Tank 3207 Annual Cap	VOC	---	37.78
3200	Tank 3200	VOC	0.23	---
3201	Tank 3201	VOC	0.23	---
3202	Tank 3202	VOC	0.23	---
3203	Tank 3203	VOC	3.34	---
3204	Tank 3204	VOC	5.18	---
3205	Tank 3205	VOC	5.05	---
3206	Tank 3206	VOC	0.72	---
3207	Tank 3207	VOC	2.36	---
TNKFUG1	1000-Series Tank Farm – Fugitives (5)	VOC	1.08	4.73
TNKFUG2	Tank 3200 to 3202 - Fugitives (5)	VOC	0.22	0.94
TNKFUG3	Tank 2100 to 2108 - Fugitives (5)	VOC	0.39	1.71
TNKFUG4	Tank 2117 to 2158 - Fugitives (5)	VOC	2.23	9.77
TNKFUG5	Tank 3203 to 3206 - Fugitives (5)	VOC	0.82	3.59

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BLR-1	York Shipley Boiler, 16.7 MMBtu/hr	CO	1.37	6.02
		NO_X	1.64	7.16
		VOC	0.09	0.39
		PM	0.12	0.54
		PM_{10}	0.12	0.54
		$PM_{2.5}$	0.12	0.54
		SO_2	0.01	0.04
BLR-2	Eclipse Boiler, 10.5 MMBtu/hr	CO	0.87	3.79
		NO_X	1.03	4.51
		VOC	0.06	0.25
		PM	0.08	0.34
		PM_{10}	0.08	0.34
		$PM_{2.5}$	0.08	0.34
		SO_2	0.01	0.03
BLR-3	Williams & Davis Boiler, 9.7 MMBtu/hr	CO	0.80	3.51
		NO_X	0.95	4.18
		VOC	0.05	0.23
		PM	0.07	0.32
		PM_{10}	0.07	0.32
		$PM_{2.5}$	0.07	0.32
		SO_2	0.01	0.03
BLR-4	Cleaver Brooks Boiler, 4.2 MMBtu/hr	CO	0.31	0.68
		NO_X	0.16	0.72
		VOC	0.02	0.10
		PM	0.03	0.14
		PM_{10}	0.03	0.14
		$PM_{2.5}$	0.03	0.14
		SO_2	0.01	0.01
H.O. - 1	American Heating Hot Oil Heater, 12 MMBtu/hr	CO	0.99	4.33

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		NO_X	1.18	5.15
		VOC	0.07	0.28
		PM	0.09	0.39
		PM_{10}	0.09	0.39
		$PM_{2.5}$	0.09	0.39
		SO_2	0.01	0.03
H.O. - 2	Heat Tec Hot Oil Heater, 4 MMBtu/hr	CO	0.34	1.47
		NO_X	0.40	1.75
		VOC	0.02	0.10
		PM	0.03	0.13
		PM_{10}	0.03	0.13
		$PM_{2.5}$	0.03	0.13
		SO_2	0.01	0.01
H.O. - 3	America Heating Hot Oil Heater, 8 MMBtu/hr	CO	0.59	1.31
		NO_X	0.32	1.38
		VOC	0.04	0.19
		PM	0.06	0.26
		PM_{10}	0.06	0.26
		$PM_{2.5}$	0.06	0.26
		SO_2	0.01	0.02
Flare 1A	Truck Rack 1 Flare	CO	55.40	6.04
		NO_X	27.75	3.03
		VOC	6.01	6.26
		SO_2	0.05	0.03
Flare 7A	Truck Rack 7 Flare	CO	55.40	6.04
		NO_X	27.75	3.03
		VOC	18.02	6.26
		SO_2	0.05	0.03
VCU1	Marine VCU	CO	35.07	10.44

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		NO_X	14.03	4.18
		VOC	35.07	10.44
		PM	0.59	2.59
		PM_{10}	0.59	2.59
		$PM_{2.5}$	0.59	2.59
		SO_2	0.05	0.20
Load Leaks (LR-1)	Loading Losses from LR-1 (5)	VOC	9.16	7.32
Load Leaks (LR-7)	Loading Losses from LR-7 (5)	VOC	9.16	7.32
Load Leaks (OD-2)	Loading Losses from OD-2 (5)	VOC	41.10	5.63
Load Leaks (OD-5)	Loading Losses from OD-5 (5)	VOC	41.10	5.63
LR-1	Truck Loading Rack 1	VOC	(6)	(6)
LR-2	Truck Loading Rack 2	VOC	2.40	0.19
LR-3	Truck Loading Rack 3	VOC	2.40	0.19
LR-4	Truck Loading Rack 4	VOC	2.40	0.19
LR-5	Truck Loading Rack 5	VOC	4.79	0.19
LR-6	Truck Loading Rack 6	VOC	2.40	0.19
LR-7	Truck Loading Rack 7	VOC	(6)	(6)
LR-8	Truck Loading Rack 8	VOC	0.01	< 0.01
LR-9	Truck Loading Rack 9	VOC	1.20	0.19
LR-10	Truck Loading Rack 10	VOC	4.79	0.19
OD-1	Oil Dock 1	VOC	3.33	0.25
OD-2	Oil Dock 2	VOC	3.33	0.25
OD-3	Oil Dock 3	VOC	0.01	< 0.01
OD-5	Oil Dock 5	VOC	11.65	0.50
N-24	Rail Rack N-24	VOC	1.70	0.04
N-25	Rail Rack N-25	VOC	1.70	0.04
N-2829	Rail Rack N-2829	VOC	0.07	< 0.01
MSS-TD-FR	Maintenance, Startup, and Shutdown – Tank Degassing Fixed Roof Tanks	VOC	30.21	1.43

Emission Sources - Maximum Allowable Emission Rates

MSS-RL-TO	Maintenance, Startup, and Shutdown - Roof Landings Thermal Oxidizer	VOC	161.24	1.15
MSS-TD-IFR-TO	Maintenance, Startup, and Shutdown - Tank Degassing (IFR) Thermal Oxidizer	VOC	46.99	1.54
MSS-TO	Maintenance, Startup, and Shutdown Portable Thermal Oxidizer	CO	0.38	0.18
		NO_X	0.29	0.13
		PM	0.18	0.08
		PM_{10}	0.18	0.08
		$PM_{2.5}$	0.18	0.08
		SO_2	< 0.01	< 0.01
MSS-VAC	Maintenance, Start-up, Shutdown Vacuum Truck	VOC	1.89	0.49
MSS-PIPE	Maintenance, Startup, and Shutdown Controlled Piping Emissions (5)	VOC	267.02	6.56

(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
SO_2 - sulfur dioxide
PM - total particulate matter, suspended in the atmosphere, including PM_{10} and $PM_{2.5}$, as represented
PM_{10} - 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
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) VOC Emissions controlled and emitted from EPN Flare 1A for LR-1 and EPN Flare 7A from LR-7.

Date: xxxxxxx