Emission Sources - Maximum Allowable Emission Rates

Permit Number 2341

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)
P1001	Hot Oil Heater B-301	CO	1.39	5.20
		NOx	3.42	12.79
		PM	0.13	0.47
		PM10	0.13	0.47
		PM2.5	0.13	0.47
		SO2	0.01	0.04
		VOC	0.09	0.34
P4001	Hot Oil Heater B-401	CO	0.82	2.12
		NOx	1.56	4.02
		PM	0.07	0.19
		PM10	0.07	0.19
		PM2.5	0.07	0.19
		SO2	0.01	0.02
		VOC	0.05	0.14
P5002	Hot Oil Heater B-501	CO	2.12	5.00
		NOx	2.64	6.22
		PM	0.19	0.45
		PM10	0.19	0.45
		PM2.5	0.19	0.45
		SO2	0.02	0.04
		VOC	0.14	0.33
P3001	Hot Oil Heater B-601	CO	0.29	0.74

Emission Sources - Maximum Allowable Emission Rates

		NOx	0.33	0.85
		PM	0.03	0.07
		PM10	0.03	0.07
		PM2.5	0.03	0.07
		SO2	<0.01	0.01
		VOC	0.02	0.05
P3002	Hot Oil Heater B-602	CO	0.29	0.74
		NOx	0.52	1.33
		PM	0.03	0.07
		PM10	0.03	0.07
		PM2.5	0.03	0.07
		SO2	<0.01	0.01
		VOC	0.02	0.05
P3003	Hot Oil Heater B-603	CO	0.82	2.60
		NOx	1.65	5.20
		PM	0.07	0.24
		PM10	0.07	0.24
		PM2.5	0.07	0.24
		SO2	0.01	0.02
		VOC	0.05	0.17
P3022	Hot Oil Heater B-604	CO	0.16	0.42
		NOx	0.24	0.62
		PM	0.01	0.04
		PM10	0.01	0.04
		PM2.5	0.01	0.04
		SO2	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

		VOC	0.01	0.03
P6003	Hot Oil Heater B-690	CO	2.56	6.29
		NOx	0.72	1.86
		PM	0.49	1.68
		PM10	0.49	1.68
		PM2.5	0.49	1.68
		SO2	0.02	0.04
		VOC	0.19	0.50
P2001	Hot Oil Heater B-701	CO	1.10	4.20
		NOx	2.91	11.16
		PM	0.10	0.38
		PM10	0.10	0.38
		PM2.5	0.10	0.38
		SO2	0.01	0.03
		VOC	0.07	0.28
P7004	Hot Oil Heater B-778	CO	1.05	4.35
		NOx	0.84	3.46
		PM	0.21	0.88
		PM10	0.21	0.88
		PM2.5	0.21	0.88
		SO2	0.02	0.07
		VOC	0.15	0.64
P7001	Hot Oil Heater B-790	CO	2.71	5.66
		NOx	3.19	6.66
		PM	0.24	0.51
		PM10	0.24	0.51

Emission Sources - Maximum Allowable Emission Rates

		PM2.5	0.24	0.51
		SO2	0.01	0.03
		VOC	0.22	0.43
P1003	Steam Boiler B-503	CO	2.54	6.76
		NOx	5.02	14.23
		PM	0.37	1.25
		PM10	0.37	1.25
		PM2.5	0.37	1.25
		SO2	0.02	0.04
		VOC	0.18	0.49
P1004	Steam Boiler B-505	CO	2.61	7.04
		NOx	4.92	14.17
		PM	0.45	1.59
		PM10	0.45	1.59
		PM2.5	0.45	1.59
		SO2	0.02	0.04
		VOC	0.19	0.53
P1005	Steam Boiler B-506	CO	2.60	7.03
		NOx	4.95	14.29
		PM	0.45	1.57
		PM10	0.45	1.57
		PM2.5	0.45	1.57
		SO2	0.02	0.04
		VOC	0.19	0.53
P2002	Steam Boiler B-507	CO	2.41	6.20
		NOx	4.47	11.48

Emission Sources - Maximum Allowable Emission Rates

		PM	0.22	0.56
		PM10	0.22	0.56
		PM2.5	0.22	0.56
		SO2	0.02	0.04
		VOC	0.16	0.41
P2003	Steam Boiler B-508	CO	2.41	6.20
		NOx	2.24	5.76
		PM	0.22	0.56
		PM10	0.22	0.56
		PM2.5	0.22	0.56
		SO2	0.02	0.04
		VOC	0.16	0.41
P1016	E-307 Vac Pump J-320	VOC	0.06	0.26
P1017	E-308 Vac Pump J-321	VOC	0.20	0.86
P1018	E-306 Vac Pump J-820	VOC	2.66	11.65
P1006	E-309 Steam Jet V-309	VOC	0.20	0.86
P1007	E-310 Steam Jet V-310	VOC	0.10	0.42
P1008	E-311 Steam Jet V-311	VOC	0.06	0.28
P3014	Flare X-601	VOC	12.08	1.85
		NOx	0.03	0.13
		CO	0.26	1.12
		SO2	0.01	0.01
P3015	Flare X-602	VOC	1.69	0.20
		NOx	1.15	0.04
		CO	9.80	0.39

Emission Sources - Maximum Allowable Emission Rates

		SO2	0.01	0.01
P4004	Flare X-401	VOC	11.26	4.70
		NOx	0.07	0.32
		CO	0.58	2.70
		SO2	0.01	0.01
P6001	Flare X-695	VOC	11.75	15.25
		NOx	1.07	1.81
		CO	9.14	15.48
		SO2	0.73	0.41
PX501	Flare X-501	VOC	6.29	2.16
		NOx	o.60	0.98
		CO	5.10	8.41
		SO2	<0.01	0.01
P7002	Flare X-794	VOC	4.65	1.92
		NOx	1.38	1.24
		CO	11.80	10.59
		SO2	<0.01	<0.01
P1024	Cooling Tower W-501	VOC	0.15	0.66
		PM	0.39	1.72
		PM10	0.14	0.60
		PM2.5	<0.01	<0.01
P5004	Cooling Tower W-502	VOC	0.17	0.74
		PM	0.46	2.01
		PM10	0.15	0.67
		PM2.5	<0.01	<0.01

Emission Sources - Maximum Allowable Emission Rates

P5005	Cooling Tower W-503	VOC	0.17	0.74
		PM	0.38	1.67
		PM10	0.15	0.67
		PM2.5	<0.01	<0.01
P5006	Cooling Tower W-503A	VOC	0.08	0.37
		PM	0.19	0.84
		PM10	0.08	0.34
		PM2.5	<0.01	<0.01
WW001	Encl. Sump Skimmer F-530	VOC	0.02	0.01
WW002	MOAT/Wastewater Collection Sump	VOC	<0.01	<0.01
WW003	WW Surge Tank F-1001	VOC	0.16	0.43
P1019	Baghouse R-301	PM	0.10	0.37
		PM10	0.10	0.37
		PM2.5	0.10	0.37
		VOC	0.01	0.01
P1010	Storage Tank F-320A (8)(9)	VOC	2.11	0.08
P1020	Storage Tank F-322A (8)	VOC	1.26	0.02
T1003	Storage Tank F-405 (8)(9)	VOC	0.70	0.74
T1004	Storage Tank F-408 (8)	VOC	2.27	0.07
P1012	Storage Tank F-414 (8)(9)	VOC	0.24	0.01
P5001	Storage Tank F-560 (8)(9)	VOC	1.65	0.30
T5009	Storage Tank F-581 (8)	VOC	0.37	0.07
T5010	Storage Tank F-582 (8)	VOC	0.01	<0.01
T3001	Storage Tank F-606 (8)(9)	VOC	9.75	0.63

Emission Sources - Maximum Allowable Emission Rates

T3002	Storage Tank F-607 (8)(9)	VOC	9.29	0.14
T3003	Storage Tank F-608 (8)(9)	VOC	0.63	0.26
P3006	Storage Tank F-608A (8)(9)	VOC	0.31	0.03
P3007	Storage Tank F-608B (8)(9)	VOC	0.01	<0.01
T3004	Storage Tank F-609 (8)(9)	VOC	1.08	0.11
P3008	Storage Tank F-609A (8)(9)	VOC	2.01	0.05
P3009	Storage Tank F-609B (8)(9)	VOC	2.54	0.08
T1009	Storage Tank F-612 (8)(9)	VOC	1.72	0.08
T4001	Storage Tank F-612A (8)(9)	VOC	12.40	0.70
T4002	Storage Tank F-612AA (8)(9)	VOC	11.13	1.08
T2001	Storage Tank F-612B (8)(9)	VOC	5.16	1.00
T3005	Storage Tank F-612C (8)(9)	VOC	0.53	0.15
P3011	Storage Tank F-613 (8)(9)	VOC	<0.01	<0.01
T3006	Storage Tank F-615 (8)	VOC	0.66	0.12
T3007	Storage Tank F-615A (8)	VOC	0.84	0.13
T3008	Storage Tank F-617 (8)	VOC	1.37	0.06
T4004	Storage Tank F-618 (8)	VOC	2.42	0.07
T4005	Storage Tank F-619 (8)	VOC	2.91	0.31
T4006	Storage Tank F-620 (8)	VOC	0.83	0.55
T4007	Storage Tank F-621 (8)	VOC	0.07	<0.01
T4008	Storage Tank F-640 (8)(9)	VOC	2.28	0.01
T4009	Storage Tank F-641 (8)(9)	VOC	0.02	0.01

Emission Sources - Maximum Allowable Emission Rates

T4010	Storage Tank F-642 (8)	VOC	0.07	0.02
T4012	Storage Tank F-644 (8)	VOC	0.21	0.21
T4013	Storage Tank F-645 (8)(9)	VOC	0.01	<0.01
T5003	Storage Tank F-650 (8)	VOC	23.92	3.81
P6005	Storage Tank F-651 (8)(9)	VOC	3.23	0.71
T5007	Storage Tank F-653 (8)	VOC	1.66	0.08
P6002	Storage Tank F-691 (8)	VOC	3.75	0.01
T1010	Storage Tank F-702 (8)(9)	VOC	0.12	0.01
T1012	Storage Tank F-704 (8)	VOC	0.84	0.07
T1013	Storage Tank F-705 (8)	VOC	0.18	<0.01
T2003	Storage Tank F-706 (8)(9)	VOC	0.03	0.01
T2004	Storage Tank F-707 (8)(9)	VOC	1.19	0.05
T2005	Storage Tank F-708 (8)(9)	VOC	1.73	0.02
T2006	Storage Tank F-713 (8)	VOC	2.14	0.03
T5001	Storage Tank F-718 (8)(9)	VOC	0.09	0.02
T5002	Storage Tank F-719 (8)(9)	VOC	0.09	0.02
T5005	Storage Tank F-721 (8)(9)	VOC	0.13	0.12
T2007	Storage Tank F-722 (8)(9)	VOC	0.08	<0.01
T2008	Storage Tank F-723 (8)(9)	VOC	0.09	0.02
T2009	Storage Tank F-724 (8)	VOC	1.43	0.83
T2011	Storage Tank F-726 (8)	VOC	0.51	0.01
T2012	Storage Tank F-727 (8)(9)	VOC	0.05	0.04

Emission Sources - Maximum Allowable Emission Rates

T2014	Storage Tank F-729 (8)	VOC	1.36	0.06
P2004	Storage Tank F-730 (8)	VOC	2.17	0.24
T3009	Storage Tank F-741 (8)	VOC	0.21	0.11
T3010	Storage Tank F-742 (8)(9)	VOC	0.14	0.08
T3011	Storage Tank F-743 (8)	VOC	2.11	0.10
T3024	Storage Tank F-746 (8)	VOC	4.27	0.01
T6001	Storage Tank F-751 (8)	VOC	1.20	0.01
T6003	Storage Tank F-754 (8)	VOC	1.58	0.01
T6007	Storage Tank F-755 (8)	VOC	1.28	0.39
T6004	Storage Tank F-775 (8)	VOC	4.34	0.16
T6005	Storage Tank F-785 (8)	VOC	0.68	0.75
T6008	Storage Tank F-796 (8)	VOC	1.85	0.22
P7007	Storage Tank F-797 (8)	VOC	0.52	0.04
P7006	Storage Tank F-799 (8)	VOC	6.58	0.12
P8003	Storage Tank F-832 (8)	VOC	1.72	0.16
P8004	Storage Tank F-861	VOC	0.01	0.01
LT001	Truck Loading Rack A Loading Loss Fugitives	VOC	0.34	0.05
LT002	Truck Loading Rack B	VOC	3.63	<0.01
LT003	Truck Loading Rack C Loading Loss Fugitives	VOC	0.16	<0.01
LT004	Truck Loading Rack D Loading Loss Fugitives	VOC	0.39	0.06
LT005	Truck Loading Rack E Loading Loss Fugitives	VOC	0.21	0.02
LT006	Truck Loading Rack F	VOC	0.77	0.02

Emission Sources - Maximum Allowable Emission Rates

LT007	Truck Loading Rack G	VOC	14.84	0.18
LR001	RailCar Loading Track 1 Spot 1	VOC	0.40	0.01
LR002	RailCar Loading Track 1 Spot 2	VOC	<0.01	<0.01
LR003	RailCar Loading Track 2 Spot 6 Connection Loss	VOC (10)	<0.01	<0.01
LR004	RailCar Loading Track 2 Spot 7	VOC (10)	<0.01	<0.01
LR005	RailCar Loading Track 2 Spot 8	VOC (11)	0.98	<0.01
LR006	RailCar Loading Track 3 Spot 9	VOC	3.40	0.07
LR013	F-700 Scrubber, for Tank 402 (6)	VOC	0.13	<0.01
LR014	Loading Scrubber, for Track 1, Spots 14 – 17, F-750	VOC	0.16	0.04
LR015	Drumming Plant (drum and tote loading)	VOC	4.33	0.07
P1025	Plant 1WW Sump	VOC	0.01	<0.01
P2005	Plant 2 WW Sump	VOC	0.01	0.01
P3024	Plant 3 WW Sump	VOC	0.01	0.01
P4005	Plant 4 WW Sump	VOC	<0.01	<0.01
P5007	Plant 5 WW Sump	VOC	0.04	0.01
P6004	Plant 6 WW Sump	VOC	<0.01	<0.01
P7003	Plant 7 WW Sump	VOC	0.02	0.01
P1026	Main WW Sump F-530	VOC	0.30	0.20
P1027	Carbon Fines WW Sump	VOC	0.13	0.13
P1028	Drumming Plt WW Sump	VOC	<0.01	<0.01
F1001	Plant Fugitives (5)	VOC	6.19	26.86
P1029	Fire Water Diesel Pump (testing 38 hrs/yr) J-517	CO	2.75	0.05
		NOx	12.77	0.24

Emission Sources - Maximum Allowable Emission Rates

		PM	0.91	0.02
		PM10	0.91	0.02
		PM2.5	0.91	0.02
		SO2	0.85	0.02
		VOC	1.03	0.02
P1030	Fire Water Diesel Pump (testing 38 hrs/yr) J-517A	CO	2.75	0.05
		NOx	12.77	0.24
		PM	0.91	0.02
		PM10	0.91	0.02
		PM2.5	0.91	0.02
		SO2	0.85	0.02
		VOC	1.03	0.02
P1031	Wastewater Diesel Pump J-522A	CO	0.19	0.07
		NOx	2.98	1.07
		PM	0.18	0.06
		PM10	0.18	0.06
		PM2.5	0.18	0.06
		SO2	0.17	0.06
		VOC	0.21	0.07
P1032	Wastewater Diesel Pump J-522B	CO	0.07	0.02
		NOx	4.38	1.07
		PM	0.18	0.04
		PM10	0.18	0.04
		PM2.5	0.18	0.04
		SO2	0.17	0.04
		VOC	0.21	0.05

Emission Sources - Maximum Allowable Emission Rates

(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
PM10 - total particulate matter equal to or less than 10 microns in diameter, including $PM_{2.5}$, as represented
PM2.5 - 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) Emissions from storage tank F-402 during initiation of vapor balance back to rail cars are directed to the water scrubber F-700 to insure no impurities are returned to the rail car, the storage tank is also filled by pipeline uncontrolled.
(7) Tank F-504 is out of service, it may be repurposed in the future.
(8) Indicates a fixed roof storage tank that is insulated and can be heated with a steam coil.
(9) Indicates a splash loaded tank.
(10) Controlled loading spot, emissions associated with clingage and residual vapor during disconnect.
(11) Loading spot with 2 arms, uncontrolled for OTBP and 2,4 DTAP and controlled for 2,6 DTBP.

Dated: June 29, 2018