Permit Number 22690 and PSDTX751M2

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.	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(1)			lbs/hour	TPY (4)
22-36-1	22 Cracking Furnace 1	СО	37.48	29.74
		NO _X	15.60	16.99
		PM	0.97	3.17
		PM ₁₀	0.97	3.17
		PM _{2.5}	0.97	3.17
		SO ₂	4.33	7.48
		VOC	0.70	2.29
22-36-2	22 Cracking Furnace 2	СО	37.48	29.74
		NO _X	15.60	16.99
		PM	0.97	3.17
		PM ₁₀	0.97	3.17
		PM _{2.5}	0.97	3.17
		SO ₂	4.33	7.48
		VOC	0.70	2.29
22-36-3	22 Cracking Furnace 3	СО	37.48	29.74
		NO _X	15.60	16.99
		PM	0.97	3.17
		PM ₁₀	0.97	3.17
		PM _{2.5}	0.97	3.17
		SO ₂	4.33	7.48
		VOC	0.70	2.29
22-36-4	22 Cracking Furnace 4	СО	37.48	29.74
		NO _X	15.60	16.99
		PM	0.97	3.17
		PM ₁₀	0.97	3.17
		PM _{2.5}	0.97	3.17
		SO ₂	4.33	7.48
		VOC	0.70	2.29

22-36-6	22 Cracking Furnace 6	со	37.48	29.74
		NO _x	15.60	16.99
		PM	0.97	3.17
		PM ₁₀	0.97	3.17
		PM _{2.5}	0.97	3.17
		SO ₂	4.33	7.48
00.00.7		VOC	0.70	2.29
22-36-7	22 Cracking Furnace 7	СО	37.48	29.74
		NO _X	15.60	16.99
		PM	0.97	3.17
		PM ₁₀	0.97	3.17
		PM _{2.5}	0.97	3.17
		SO ₂	4.33	7.48
		VOC	0.70	2.29
22-36-8	22 Furnace Cracking 8	со	37.48	29.74
		NO _X	15.60	16.99
		PM	0.97	3.17
		PM ₁₀	0.97	3.17
		PM _{2.5}	0.97	3.17
		SO ₂	4.33	7.48
		VOC	0.70	2.29
22-36-9	22 Cracking Furnace 9	СО	10.96	21.60
		CO (10)	32.88	
		NO _x	2.25	5.91
		NO _x (10)	5.06	
		PM	1.12	4.41
				4 41
		PM ₁₀	1.12	4.41
l		PM ₁₀	1.12	4.41
		PM _{2.5}	1.12	4.41
		PM _{2.5} SO ₂	1.12 6.54	4.41 8.28
24-36-9DC	Ethylene Cracking Furnace No. F-9	PM _{2.5} SO ₂ VOC	1.12 6.54 0.81	4.41 8.28 3.19
24-36-9DC	Ethylene Cracking Furnace No. F-9 Decoking	PM _{2.5} SO ₂ VOC NH ₃	1.12 6.54 0.81 0.67	4.41 8.28 3.19 2.62
24-36-9DC		PM _{2.5} SO ₂ VOC NH ₃ CO	1.12 6.54 0.81 0.67 556.00	4.41 8.28 3.19 2.62 25.13

24-36-1	24 Cracking Furnace 1 (2 stacks)	СО	72.08	76.65
		NO _X	30.00	87.60
		PM	1.86	8.16
		PM ₁₀	1.86	8.16
		PM _{2.5}	1.86	8.16
		SO ₂	7.82	18.11
		VOC	1.35	5.90
24-36-2	24 Cracking Furnace 2 (2 stacks)	СО	72.08	76.65
		NO _x	30.00	87.60
		PM	1.86	8.16
		PM ₁₀	1.86	8.16
		PM _{2.5}	1.86	8.16
		SO ₂	7.82	18.11
		VOC	1.35	5.90
24-36-3	24 Cracking Furnace 3 (2 stacks)	СО	72.08	76.65
		NO _x	30.00	87.60
		PM	1.86	8.16
		PM ₁₀	1.86	8.16
		PM _{2.5}	1.86	8.16
		SO ₂	7.82	18.11
		VOC	1.35	5.90
24-36-4	24 Cracking Furnace 4 (2 stacks)	СО	72.08	76.65
		NO _x	30.00	87.60
		PM	1.86	8.16
		PM ₁₀	1.86	8.16
		PM _{2.5}	1.86	8.16
		SO ₂	7.82	18.11
		VOC	1.35	5.90

24-36-5	24 Cracking Furnace 5 (2 stacks)	СО	72.08	76.65
		NOx	30.00	87.60
		PM	1.86	8.16
		PM ₁₀	1.86	8.16
		PM _{2.5}	1.86	8.16
		SO ₂	7.82	18.11
		VOC	1.35	5.90
24-36-6	24 Cracking Furnace 6 (2 stacks)	со	72.08	76.65
		NO _X	30.00	87.60
		PM	1.86	8.16
		PM ₁₀	1.86	8.16
		PM _{2.5}	1.86	8.16
		SO ₂	7.82	18.11
		VOC	1.35	5.90
24-36-7	24 Steam Superheater 7	СО	63.72	67.76
		NO _x	26.52	96.80
		PM	1.65	7.21
		PM ₁₀	1.65	7.21
		PM _{2.5}	1.65	7.21
		SO ₂	6.92	16.01
		VOC	1.19	5.22
24-36-8	24 DAC Hydrotreater Heater 8	СО	0.98	1.08
		NO _X	0.57	2.23
		РМ	0.02	0.10
		PM ₁₀	0.02	0.10
		PM _{2.5}	0.02	0.10
		SO ₂	0.09	0.19
		VOC	0.02	0.07

24-36-9	24 Cracking Furnace 9			100.00
24-30-9	24 Cracking Furnace 9	СО	97.17	103.32
		NO _X	40.44	118.08
		PM	2.51	11.00
		PM ₁₀	2.51	11.00
		PM _{2.5}	2.51	11.00
		SO ₂	10.55	24.41
		VOC	1.82	7.96
33-36-1	33 Cracking Furnace 1	CO (7)	93.71	97.81
		NO _x (7)	39.00	83.83
		PM	2.42	10.41
		PM ₁₀	2.42	10.41
		PM _{2.5}	2.42	10.41
		SO ₂ (7)	15.85	10.80
		VOC	1.75	7.53
33-36-2	33 Cracking Furnace 2	CO (7)	93.71	97.81
		NO _x (7)	39.00	83.83
		PM	2.42	10.41
		PM ₁₀	2.42	10.41
		PM _{2.5}	2.42	10.41
		SO ₂ (7)	15.85	10.80
		VOC	1.75	7.53
33-36-3	33 Cracking Furnace 3	CO (7)	93.71	97.81
		NO _x (7)	39.00	83.83
		PM	2.42	10.41
		PM ₁₀	2.42	10.41
		PM _{2.5}	2.42	10.41
		SO ₂ (7)	15.85	10.80
		VOC	1.75	7.53

33-36-4	33 Cracking Furnace 4	CO (7)	93.71	97.81
		NO _x (7)	39.00	83.83
		PM	2.42	10.41
		PM ₁₀	2.42	10.41
		PM _{2.5}	2.42	10.41
		SO ₂ (7)	15.85	10.80
		VOC	1.75	7.53
33-36-5	33 Cracking Furnace 5	CO (7)	93.71	97.81
		NO _x (7)	39.00	83.83
		PM	2.42	10.41
		PM ₁₀	2.42	10.41
		PM _{2.5}	2.42	10.41
		SO ₂ (7)	15.85	10.80
		voc	1.75	7.53
33-36-6	33 Cracking Furnace 6	CO (7)	93.71	97.81
		NO _x (7)	39.00	83.83
		PM	2.42	10.41
		PM ₁₀	2.42	10.41
		PM _{2.5}	2.42	10.41
		SO ₂ (7)	15.85	10.80
		VOC	1.75	7.53
33-36-7	33 Cracking Furnace 7	CO (7)	93.71	83.09
		NO _x (7)	39.00	71.22
		PM	2.42	8.84
		PM ₁₀	2.42	8.84
		PM _{2.5}	2.42	8.84
		SO ₂ (7)	15.85	9.17
		VOC	1.75	6.40

33-36-8	33 Cracking Furnace 8	CO (7)	93.71	82.78
		NO _x (7)	39.00	70.96
		PM	2.42	8.81
		PM ₁₀	2.42	8.81
		PM _{2.5}	2.42	8.81
		SO ₂ (7)	15.85	9.14
		VOC	1.75	6.38
33-36-9	33 Cracking Furnace 9	CO (7)	93.71	82.78
		NO _x (7)	39.00	70.96
		PM	2.42	8.81
		PM ₁₀	2.42	8.81
		PM _{2.5}	2.42	8.81
		SO ₂ (7)	15.85	9.14
		voc	1.75	6.38
33-36-10	33 Cracking Furnace 10	СО	93.90	37.60
		NH₃	1.50	4.78
		NOx	19.50	17.08
		PM	2.42	8.49
		PM ₁₀	2.42	8.49
		PM _{2.5}	2.42	8.49
		SO ₂	8.65	8.04
		VOC	1.75	6.14
56-61-4	Unit 10D/18 Process Flare (Flare #4)	СО	22.58	19.68
	(Flate #4)	H ₂ S	0.02	0.06
		NO _X	4.43	3.86
		SO ₂	1.49	4.82
		VOC	20.55	2.91
56-61-8	Unit 10, 12 Low-Pressure Flare (Flare #8)	СО	45.76	32.59
	(1 1216 110)	H ₂ S	0.03	0.12
		NO _X	6.65	5.45
		SO ₂	3.06	11.63
		VOC	20.65	18.67

Emission Sources - Maximum Allowable Emission Rates

56-61-9	Unit 10, 12 High-Pressure Flare	СО	0.37	1.61
	(Flare #9)	H ₂ S	<0.01	<0.01
		NO _x	0.07	0.32
				0.34
		SO ₂	0.08	
56-61-10	Unit 21, 22 Low-Pressure Flare	VOC	0.03	0.15
30 01 10	(Flare #10)	СО	18.32	27.35
		H ₂ S	<0.01	0.06
		NOx	3.59	5.37
		SO ₂	8.56	2.21
FC C1 10	Linit 22 High Dynasyya Flora	VOC	11.10	10.96
56-61-12	Unit 22 High-Pressure Flare (Flare #12)	СО	0.34	1.48
		H ₂ S	<0.01	<0.01
		NO _X	0.07	0.29
		SO ₂	0.07	0.31
		VOC	0.03	0.14
56-61-14	Unit 24 High-Pressure Flare (Flare #14)	СО	0.99	4.33
		H ₂ S	<0.01	<0.01
		NO _X	0.12	0.50
		SO ₂	0.13	0.58
		voc	0.06	0.26
56-61-20	Unit 24 Low-Pressure Flare	СО	68.67	79.11
	(Flare #20)	H ₂ S	0.04	0.17
		NO _x	32.79	32.59
		SO ₂	10.79	15.75
		VOC	25.80	22.77
56-61-22	Unit 33 Process Flare	CO (7)	40.09	88.48
	(Flare #22)	H₂S	0.02	0.09
		NO _x (7)	7.87	17.36
		SO ₂ (7)	9.52	9.50
		VOC	21.41	12.27
54-22-5	Unit 12 Cooling Tower (CT-5)	PM	1.62	7.10
		PM ₁₀	1.59	6.96
		PM _{2.5}	0.36	1.57
		VOC	1.70	2.13
54-22-6	Unit 10ABC Cooling Tower (CT-6)	PM	1.24	5.42
	_ ` ,	' '''	2.27	J.72

1	1			T
		PM ₁₀	1.21	5.31
		PM _{2.5}	0.27	1.20
		VOC	1.30	1.62
54-22-7	Unit 10ABC Cooling Tower (CT-7)	PM	1.56	6.85
		PM ₁₀	1.53	6.72
		PM _{2.5}	0.35	1.52
		VOC	1.64	2.05
54-22-9	Unit 10D/18 Cooling Tower (CT-9)	PM	1.40	6.15
		PM ₁₀	1.38	6.02
		PM _{2.5}	0.31	1.36
		VOC	1.47	1.84
54-22-12	Unit 21/22 Cooling Tower (CT-12)	PM	2.32	10.17
		PM ₁₀	2.28	9.97
		PM _{2.5}	0.51	2.25
		VOC	2.44	3.05
54-22-13	Unit 24 Cooling Tower (CT-13)	PM	3.17	13.89
		PM ₁₀	3.11	13.62
		PM _{2.5}	0.70	3.07
		Voc	3.33	4.16
54-22-17	Unit 33 Cooling Tower (CT-17)	PM	5.82	25.49
		PM ₁₀	5.71	24.99
		PM _{2.5}	1.29	5.64
		VOC	6.11	7.64
10.1-0-0	Unit 10AC Process Fugitives (5)	VOC	5.03	22.01
		Benzene (8)	<0.01	0.03
10.2-0-0	Unit 10D Process Fugitives (5)	VOC	2.50	10.92
		Benzene (8)	<0.01	0.01
10.3-0-0	Unit 10B Process Fugitives (5)	VOC	1.13	4.96
	•	Benzene (8)	<0.01	<0.01
12-0-0	Unit 12 Process Fugitives (5)	VOC	1.91	8.38
		Benzene (8)	0.11	0.48
18-0-0	Unit 18 Process Fugitives (5)	VOC	1.60	7.01
21-0-0	Unit 21 Process Fugitives (5)	VOC	0.84	3.69
		Benzene (8)	<0.01	0.02
22-0-0	Unit 22 Process Fugitives (5)	VOC	12.44	51.75

Benzene (8) 0.13 0.57 NH3		I		T	T
24-0-0			Benzene (8)	0.13	0.57
Benzene (8) 0.21 0.93			NH ₃	0.04	0.16
24.1-0-0	24-0-0	Unit 24 Process Fugitives (5)	VOC	19.82	86.82
Note			Benzene (8)	0.21	0.93
33-0-0	24.1-0-0	Unit 24.1 Process Fugitives (5)	VOC	2.90	12.71
Benzene (8)			Benzene (8)	0.96	4.21
NH ₃ 0.23 0.98	33-0-0	Unit 33 Process Fugitives (5)(6)	VOC	18.52	81.15
No. No.			Benzene (8)	0.35	1.49
Benzene (8)	33.1-0-0	U33 F-10 Fugitives (5)	NH ₃	0.23	0.98
68.1-0-0 West Pipe Rack Fugitives (5) VOC 0.53 2.34 24-95-314 Methanol Storage Tank VOC 3.31 0.08 33-95-10 Methanol Storage Tank VOC 3.31 0.08 33-95-14 TBC Storage Tank VOC 0.03 <0.01			VOC	0.20	0.85
Benzene (8) 0.16 0.71			Benzene (8)	<0.01	<0.01
24-95-314 Methanol Storage Tank VOC 3.31 0.08 33-95-10 Methanol Storage Tank VOC 3.31 0.08 33-95-14 TBC Storage Tank VOC 0.03 <0.01	68.1-0-0	West Pipe Rack Fugitives (5)	VOC	0.53	2.34
33-95-10 Methanol Storage Tank VOC 3.31 0.08			Benzene (8)	0.16	0.71
33-95-14 TBC Storage Tank VOC 0.03 <0.01 10-95-328 D-328 Seal Oil Reservoir VOC 0.01 0.05 10-95-357 D-357 Lube/Seal Oil Reservoir VOC 0.01 0.05 18-95-54 D-54 Lube/Seal Oil Reservoir VOC 0.01 0.05 21-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-100 D-100 Lube Oil Reservoir VOC 0.01 0.05 22-95-101 D-101 Lube Oil Reservoir VOC 0.01 0.05 22-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-130 D-130 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-305 D-304 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05	24-95-314	Methanol Storage Tank	VOC	3.31	0.08
10-95-328 D-328 Seal Oil Reservoir VOC 0.01 0.05 10-95-357 D-357 Lube/Seal Oil Reservoir VOC 0.01 0.05 18-95-54 D-54 Lube/Seal Oil Reservoir VOC 0.01 0.05 21-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-100 D-100 Lube Oil Reservoir VOC 0.01 0.05 22-95-101 D-101 Lube Oil Reservoir VOC 0.01 0.05 22-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-130 D-130 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-304 D-304 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-305 D-305 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-3	33-95-10	Methanol Storage Tank	VOC	3.31	0.08
10-95-357 D-357 Lube/Seal Oil Reservoir VOC 0.01 0.05 18-95-54 D-54 Lube/Seal Oil Reservoir VOC 0.01 0.05 21-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-100 D-100 Lube Oil Reservoir VOC 0.01 0.05 22-95-101 D-101 Lube Oil Reservoir VOC 0.01 0.05 22-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-130 D-130 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-304 D-304 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-305 D-305 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05	33-95-14	TBC Storage Tank	VOC	0.03	<0.01
18-95-54 D-54 Lube/Seal Oil Reservoir VOC 0.01 0.05 21-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-100 D-100 Lube Oil Reservoir VOC 0.01 0.05 22-95-101 D-101 Lube Oil Reservoir VOC 0.01 0.05 22-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-130 D-130 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-304 D-304 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-305 D-305 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05	10-95-328	D-328 Seal Oil Reservoir	VOC	0.01	0.05
21-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-100 D-100 Lube Oil Reservoir VOC 0.01 0.05 22-95-101 D-101 Lube Oil Reservoir VOC 0.01 0.05 22-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-130 D-130 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-304 D-304 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-305 D-305 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05	10-95-357	D-357 Lube/Seal Oil Reservoir	VOC	0.01	0.05
22-95-100 D-100 Lube Oil Reservoir VOC 0.01 0.05 22-95-101 D-101 Lube Oil Reservoir VOC 0.01 0.05 22-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-130 D-130 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-304 D-304 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-305 D-305 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05	18-95-54	D-54 Lube/Seal Oil Reservoir	voc	0.01	0.05
22-95-101 D-101 Lube Oil Reservoir VOC 0.01 0.05 22-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-130 D-130 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-304 D-304 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-305 D-305 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05	21-95-120	D-120 Lube/Seal Oil Reservoir	VOC	0.01	0.05
22-95-120 D-120 Lube/Seal Oil Reservoir VOC 0.01 0.05 22-95-130 D-130 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-304 D-304 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-305 D-305 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05	22-95-100	D-100 Lube Oil Reservoir	VOC	0.01	0.05
22-95-130 D-130 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-304 D-304 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-305 D-305 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05	22-95-101	D-101 Lube Oil Reservoir	VOC	0.01	0.05
24-95-304 D-304 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-305 D-305 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05	22-95-120	D-120 Lube/Seal Oil Reservoir	VOC	0.01	0.05
24-95-305 D-305 Lube/Seal Oil Reservoir VOC 0.01 0.05 24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05 0.05 0.05 0.05	22-95-130	D-130 Lube/Seal Oil Reservoir	VOC	0.01	0.05
24-95-306 D-306 Lube/Seal Oil Reservoir VOC 0.01 0.05	24-95-304	D-304 Lube/Seal Oil Reservoir	VOC	0.01	0.05
VGC 0.01	24-95-305	D-305 Lube/Seal Oil Reservoir	VOC	0.01	0.05
24.05.207 D.207.Soal Oil Posonyoir	24-95-306	D-306 Lube/Seal Oil Reservoir	VOC	0.01	0.05
24-95-507 D-507 Seal Oil Reservoil VOC 0.01 0.05	24-95-307	D-307 Seal Oil Reservoir	VOC	0.01	0.05
33-95-15 D-15 Lube/Seal Oil Reservoir VOC 0.01 0.05	33-95-15	D-15 Lube/Seal Oil Reservoir			
33-95-17 D-17 Lube/Seal Oil Reservoir VOC 0.01 0.05	33-95-17	D-17 Lube/Seal Oil Reservoir			
33-95-19 D-19 Lube/Seal Oil Reservoir VOC 0.01 0.05	33-95-19	D-19 Lube/Seal Oil Reservoir	VOC	0.01	0.05
33-95-390 D-390 Seal Oil Reservoir VOC 0.01 0.05	33-95-390	D-390 Seal Oil Reservoir			
33-95-392 D-392 Seal Oil Reservoir VOC 0.01 0.05	33-95-392	D-392 Seal Oil Reservoir			
33-95-394 D-394 Seal Oil Reservoir VOC 0.01 0.05	33-95-394	D-394 Seal Oil Reservoir			
10-95-3572 D-357 LO Res 2nd Vent VOC 0.01 0.05	10-95-3572	D-357 LO Res 2nd Vent			

10.05.0574	D 0574 Described Observation	Т		
10-95-357A	D-357A Degassing Chamber	VOC	0.01	0.05
24-95-319	D-319 Lube/Seal Oil Reservoir	VOC	0.01	0.05
24-95-320	D-320 Lube/Seal Oil Reservoir	VOC	0.01	0.05
24-95-321	D-321 Lube/Seal Oil Reservoir	VOC	0.01	0.05
10.1-SUMP1	10.1 Oily Water Sewer Sump	VOC	0.03	<0.01
12-SUMP1	12 Oily Water Sewer Sump	VOC	0.02	<0.01
21/22-SUMP1	21/22 Oily Water Sewer Sump	voc	0.01	<0.01
24-SUMP2	24 Ethylene Sodium Hydroxide Sump	voc	<0.01	0.01
24-SUMP3	24 Oily Water Sewer Sump	VOC	<0.01	0.01
33-SUMP1	33 Sodium Hydroxide Sump	voc	<0.01	0.03
33-SUMP2	33 Water Sludge Pit	voc	<0.01	<0.01
33-SUMP3	33 Oily Water Sewer Sump	voc	0.01	<0.01
33-SUMP4	33 Blowdown Drum Sump	voc	<0.01	<0.01
22-95-27	C-120 Propylene Compressor Turbine (9)	со	12.05	52.77
	Turbine (9)	NOx	36.83	161.30
		PM	0.84	3.70
		PM ₁₀	0.84	3.70
		PM _{2.5}	0.84	3.70
		SO2	0.44	1.91
		voc	1.41	6.17
10ABC-AV	Unit 10ABC Analyzer Vents	VOC	<0.01	<0.01
10D-AV	Unit 10D Analyzer Vents	VOC	<0.01	<0.01
12-AV	Unit 12 Analyzer Vents	VOC	<0.01	<0.01
18-AV	Unit 18 Analyzer Vents	VOC	<0.01	<0.01
21-AV	Unit 21 Analyzer Vents	VOC	<0.01	<0.01
22-AV	Unit 22 Analyzer Vents	VOC	<0.01	<0.01
24-AV	Unit 24 Analyzer Vents	VOC	<0.01	<0.01
33-AV	Unit 33 Analyzer Vents	VOC	0.16	0.70
	· · ·		•	

Caps			
Emission Point Nos. (1)	Air Contaminant Name (3)	Emission	Rates
	Name (3)	lbs/hour	TPY (4)
EPNs: 22-36-1, 22-36-2, 22-36-3, 22-36-4, 22-36-5, 22-36-6, 22-36-7, 22-36-8, 24-36-1, 24-36-2, 24-36-3, 24-36-4, 24-36-5, 24-36-6, 24-36-7, 24-36-8, 24-36-9, 33-36-1, 33-36-2, 33-36-3, 33-36-4, 33-36-5, 33-36-6, 33-36-7, 33-36-8, 33-36-9, 56-61-10, 56-61-12, 56-61-14, 56-61-20, 56-61-22	СО	478.74	2058.44
EPNs: 56-61-4, 56-61-8, 56-61-9	со	63.13	40.89
	NOx	12.39	8.00
EPNs: 56-61-4, 56-61-8, 56-61-9, 56-61-10, 56-61-12, 56-61-14, 56-61-20, 56-61-22	H ₂ S	0.06	0.26
EPNs: 22-36-1, 22-36-2, 22-36-3, 22-36-4, 22-36-5, 22-36-6, 22-36-7, 22-36-8, 24-36-1, 24-36-2, 24-36-3, 24-36-4, 24-36-5, 24-36-6, 24-36-7, 24-36-8, 24-36-9, 33-36-1, 33-36-2, 33-36-3, 33-36-4, 33-36-5, 33-36-6, 33-36-7, 33-36-8, 33-36-9, 56-61-10, 56-61-12, 56-61-14, 56-61-20, 56-61-22, 22-95-27	NO _x	436.25	1896.24
EPNs: 54-22-5, 54-22-6, 54-22-7, 54-22-9, 54-22-12, 54-22-13, 54-22-17	РМ	27.16	118.97
EPNs: 22-36-1, 22-36-2, 22-36-3, 22-36-4, 22-36-5, 22-36-6, 22-36-7, 22-36-8, 24-36-1, 24-36-2, 24-36-3, 24-36-4, 24-36-5, 24-36-6, 24-36-7, 24-36-8, 24-36-9, 33-36-1, 33-36-2, 33-36-3, 33-36-4, 33-36-5, 33-36-6, 33-36-7, 33-36-8, 33-36-9	PM ₁₀	41.44	181.52
EPNs: 22-36-1, 22-36-2, 22-36-3, 22-36-4, 22-36-5, 22-36-6, 22-36-7, 22-36-8, 24-36-1, 24-36-2, 24-36-3, 24-36-4, 24-36-5, 24-36-6, 24-36-7, 24-36-8, 24-36-9, 33-36-1, 33-36-2, 33-36-3, 33-36-4, 33-36-5, 33-36-6, 33-36-7, 33-36-8, 33-36-9	SO ₂	223.95	374.53
EPNs: 56-61-4, 56-61-8, 56-61-9, 56-61-10, 56-61-12, 56-61-14, 56-61-20, 56-61-22	SO ₂	18.05	24.72
EPNs: 22-36-1, 22-36-2, 22-36-3, 22-36-4, 22-36-5, 22-36-6, 22-36-7, 22-36-8, 24-36-1, 24-36-2, 24-36-3, 24-36-4, 24-36-5, 24-36-6, 24-36-7, 24-36-8, 24-36-9, 33-36-1, 33-36-2, 33-36-3, 33-36-4, 33-36-5, 33-36-6, 33-36-7, 33-36-8, 33-36-9, 56-61-4, 56-61-8, 56-61-9, 56-61-10, 56-61-12, 56-61-14, 56-61-20, 56-61-22, 54-22-5, 54-22-6, 54-22-7, 54-22-9, 54-22-12, 54-22-13, 54-22-17, 10.1-0-0, 10.2-0-0, 10.3-0-0, 12-0-0, 18-0-0, 21-0-0, 22-0-0, 24-0-0, 24.1-0-0, 33-0-0, 24-95-314, 33-95-10, 33-95-14, 10-95-328,	VOC	127.95	494.24

10-95-357, 18-95-54, 21-95-120, 22-95-120, 22-95-130, 22-95-101, 22-95-100, 24-95-304, 24-95-305, 24-95-306, 24-95-307, 33-95-15, 33-95-17, 33-95-19, 33-95-390, 33-95-392, 33-95-394, 10-95-3572, 10-95-357A, 24-95-319, 24-95-320, 24-95-321, 10.1-SUMP1, 12-SUMP1, 21/22-SUMP1, 24-SUMP2, 24-SUMP3, 33-SUMP1, 33-SUMP2, 33-SUMP3, 33-SUMP4, 10ABC-AV, 10D-AV, 12-AV, 18-AV, 21-AV, 22-AV, 24-AV, 33-AV, 68.1-0-0			
EPNs: 10.1-0-0, 10.2-0-0, 10.3-0-0, 12-0-0, 21-0-0, 22-0-0, 24-0-0, 24.1-0-0, 33-0-0, 68.1-0-0	Benzene (8)	1.74	7.60



	Planned Maintenance, Startup, ar	nd Shutdown (MSS)	Caps	
Emission Point Nos. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
(-)		(0)	lbs/hour	TPY (4)
Decoking Equipment MSS 22-95-3, 22-95-3A, 22-95-3B, and 22-95-3C	U22 Decoke	со		
24-95-300 33-95-376 and 33-95-376A	U24 Decoke U33 Decoke	co co		
	Emission Cap for the EPNs Listed Above	co	792.82	88.77
Flare System MSS 56-61-4 56-61-8	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8	CO CO		
56-61-9 56-61-10 56-61-12 56-61-14	Unit 10, 12 High-Pressure Flare 9 Unit 21, 22 Low-Pressure Flare 10 Unit 22 High-Pressure Flare 12 Unit 24 High-Pressure Flare 14	CO CO CO		
56-61-20 56-61-22	Unit 24 Low-Pressure Flare 20 Unit 33 Process Flare 22 Emission Cap for the EPNs Listed	CO		
	Above	СО	7505.60	137.12
Flare System MSS				
56-61-4 56-61-8 56-61-9	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8 Unit 10, 12 High-Pressure Flare 9	NO _X NO _X NO _X		
56-61-10 56-61-12	Unit 21, 22 Low-Pressure Flare 10 Unit 22 High-Pressure Flare 12	NO _x NO _x		
56-61-14	Unit 24 High-Pressure Flare 14	NO _X		
56-61-20 56-61-22	Unit 24 Low-Pressure Flare 20 Unit 33 Process Flare 22	NO _X NO _X		
	Emission Cap for the EPNs Listed Above	NO _x	1513.37	28.82
MSS 22-95-3, 22-95-3A, 22-95-3B, and 22-95- 3C	U22 Decoke	PM		
24-95-300 33-95-376 and	U24 Decoke U33 Decoke	PM PM		
33-95-376A CPC-ABLAST	Abrasive Blasting	PM		
CPC-PAINT Catalyst	Painting Catalyst Handling	PM PM		
	Emission Cap for the EPNs Listed Above	PM	621.98	66.29

MSS				
56-61-4	Unit 10D/18 Process Flare 4	voc		
56-61-8	Unit 10, 12 Low-Pressure Flare 8	VOC		
56-61-9	Unit 10, 12 High-Pressure Flare 9	VOC		
56-61-10	Unit 21, 22 Low-Pressure Flare 10	VOC		
56-61-12	Unit 22 High-Pressure Flare 12	VOC		
56-61-14	Unit 24 High-Pressure Flare 14	VOC		
56-61-20	Unit 24 Low-Pressure Flare 20	VOC		
56-61-22	Unit 33 Process Flare 22	VOC		
CPC-Paint	Painting	VOC		
MSSATM	Atmospheric Venting/Purging (See	VOC		
MISSATIVI		VOC		
	Attachment B for a list of activities)			
	Emission Cap for the EPNs Listed Above	voc	5247.80	124.41
	ADOVE			
MCC	7.0000			
MSS		Parana		
56-61-4	Unit 10D/18 Process Flare 4	Benzene		
56-61-4 56-61-8	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8	Benzene		
56-61-4 56-61-8 56-61-9	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8 Unit 10, 12 High-Pressure Flare 9	Benzene Benzene		
56-61-4 56-61-8 56-61-9 56-61-10	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8 Unit 10, 12 High-Pressure Flare 9 Unit 21, 22 Low-Pressure Flare 10	Benzene Benzene Benzene		
56-61-4 56-61-8 56-61-9 56-61-10 56-61-12	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8 Unit 10, 12 High-Pressure Flare 9 Unit 21, 22 Low-Pressure Flare 10 Unit 22 High-Pressure Flare 12	Benzene Benzene Benzene Benzene		
56-61-4 56-61-8 56-61-9 56-61-10 56-61-12 56-61-14	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8 Unit 10, 12 High-Pressure Flare 9 Unit 21, 22 Low-Pressure Flare 10 Unit 22 High-Pressure Flare 12 Unit 24 High-Pressure Flare 14	Benzene Benzene Benzene Benzene Benzene		
56-61-4 56-61-8 56-61-9 56-61-10 56-61-12 56-61-14 56-61-20	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8 Unit 10, 12 High-Pressure Flare 9 Unit 21, 22 Low-Pressure Flare 10 Unit 22 High-Pressure Flare 12 Unit 24 High-Pressure Flare 14 Unit 24 Low-Pressure Flare 20	Benzene Benzene Benzene Benzene		
56-61-4 56-61-8 56-61-9 56-61-10 56-61-12 56-61-14 56-61-20 56-61-22	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8 Unit 10, 12 High-Pressure Flare 9 Unit 21, 22 Low-Pressure Flare 10 Unit 22 High-Pressure Flare 12 Unit 24 High-Pressure Flare 14 Unit 24 Low-Pressure Flare 20 Unit 33 Process Flare 22	Benzene Benzene Benzene Benzene Benzene		
56-61-4 56-61-8 56-61-9 56-61-10 56-61-12 56-61-14 56-61-20	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8 Unit 10, 12 High-Pressure Flare 9 Unit 21, 22 Low-Pressure Flare 10 Unit 22 High-Pressure Flare 12 Unit 24 High-Pressure Flare 14 Unit 24 Low-Pressure Flare 20 Unit 33 Process Flare 22 Atmospheric Venting/Purging (See	Benzene Benzene Benzene Benzene Benzene Benzene		
56-61-4 56-61-8 56-61-9 56-61-10 56-61-12 56-61-14 56-61-20 56-61-22	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8 Unit 10, 12 High-Pressure Flare 9 Unit 21, 22 Low-Pressure Flare 10 Unit 22 High-Pressure Flare 12 Unit 24 High-Pressure Flare 14 Unit 24 Low-Pressure Flare 20 Unit 33 Process Flare 22	Benzene Benzene Benzene Benzene Benzene Benzene Benzene Benzene		
56-61-4 56-61-8 56-61-9 56-61-10 56-61-12 56-61-14 56-61-20 56-61-22	Unit 10D/18 Process Flare 4 Unit 10, 12 Low-Pressure Flare 8 Unit 10, 12 High-Pressure Flare 9 Unit 21, 22 Low-Pressure Flare 10 Unit 22 High-Pressure Flare 12 Unit 24 High-Pressure Flare 14 Unit 24 Low-Pressure Flare 20 Unit 33 Process Flare 22 Atmospheric Venting/Purging (See	Benzene Benzene Benzene Benzene Benzene Benzene Benzene Benzene	176.72	2.88

- (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) CO carbon monoxide H₂S - hydrogen sulfide

NH₃ - Ammonia

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

- (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) Excluding fugitives associated with Furnace 10.
- (7) This pollutant is also covered by Permit No. PSDTX751M1.
- (8) Benzene emissions are included in the VOC emissions limit.
- (9) Emissions from the Propylene Compressor Turbine (EPN 22-95-27) are prohibited upon commencement of operation of TCEQ Project No. 346268. See Special Condition No. 64.
- (10) Short-term emission limit applicable to operating scenarios defined in SC No. 7.C.

Emission Sources - Maximum Allowable Emission Rates

Permit Number 22690

This table lists the maximum allowable emission rates of greenhouse gas (GHG) emissions associated with TCEQ Project No. 346268, as defined in Title 30 Texas Administrative Code § 101.1, for all sources of GHG air contaminants on the applicant's property that are authorized 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 authorized by this permit.

Air Contaminants Data

Emission Point No. (1)	Source Name (2)	Air Contaminant	Emission Rates	
		Name (3)	TPY (4)	
22-36-9	22 Furnace 9	CO ₂ (5)	77,694.00	
		CH ₄ (5)	3.91	
		N ₂ O (5)	0.78	
		CO₂e	78,024.19	
		CO ₂ (5)	12,870.98	
56-61-10	Unit 21/22 Low-Pressure Flare (6)	CH ₄ (5)	0.52	
		N ₂ O (5)	0.10	
		CO₂e	12,915.15	
	Unit 22 Process Fugitives (6)	CH ₄ (5)	0.14	
22-0-0		CO ₂ e	3.38	

- (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.
- $\begin{array}{cccc} \text{(3)} & \text{CO}_2 & & \text{carbon dioxide} \\ & \text{N}_2\text{O} & & \text{nitrous oxide} \\ \end{array}$

CH₄ - methane

HFCs - hydrofluorocarbons PFCs - perfluorocarbons SF₆ - sulfur hexafluoride

CO₂e - carbon dioxide equivalents based on the following Global Warming Potentials (1/2015):

CO₂ (1), N₂O (298), CH₄(25), SF₆ (22,800), HFC (various), PFC (various)

(4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period. These rates include emissions from maintenance, startup, and shutdown.

(5) Emission rate is given for informational purposes only and does not constitute enforceable limit.

(6) GHG emissions limited to project piping additions and flaring associated with TCEQ Project No. 346268.

Date:	TBD	