#### Permit Number 9708 and PSDTX861M3

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	Emissio	n Rates
,	,	(3)	lbs/hour	TPY (4)
	l	VOC	4517.54	33.06
		NO <sub>x</sub>	116.53	14.83
		со	677.03	18.89
MAINTENANCE EMISSIONS CAPS	S: (7)	SO <sub>2</sub>	1768.80	6.13
		H <sub>2</sub> S	19.31	0.05
		HCI	4.00	< 0.01
		PM	2.02	0.44
		PM <sub>10</sub>	2.02	0.44
		PM <sub>2.5</sub>	2.02	0.44
		NO <sub>X</sub>	8.73	38.22
		СО	28.08	57.67
B-10	No. 18 Boiler	VOC	1.21	5.28
		SO <sub>2</sub>	5.18	10.15
		PM	1.67	7.30
		PM <sub>10</sub>	1.67	7.30
		PM <sub>2.5</sub>	1.67	7.30
B-11		NO <sub>X</sub>	8.73	38.22
		со	15.86	69.47
	No. 19 Boiler	VOC	1.21	5.28
		SO <sub>2</sub>	5.18	10.15
		PM	1.67	7.30
		PM <sub>10</sub>	1.67	7.30
		PM <sub>2.5</sub>	1.67	7.30

B-12	600# Boiler	NO <sub>X</sub>	49.28	155.43
		СО	17.47	61.21
		VOC	1.33	4.66
		SO <sub>2</sub>	5.70	8.94
		PM	1.84	6.43
1		PM <sub>10</sub>	1.84	6.43
		PM <sub>2.5</sub>	1.84	6.43
B-4	No. 11 Boiler	NO <sub>X</sub>	17.01	59.59
		СО	6.35	18.32
		VOC	0.48	1.69
		SO <sub>2</sub>	2.07	3.25
		РМ	0.67	2.34
		PM <sub>10</sub>	0.67	2.34
		PM <sub>2.5</sub>	0.67	2.34
B-6	No. 13 Boiler	NO <sub>x</sub>	15.60	54.66
		СО	5.82	17.59
		VOC	0.44	1.55
		SO <sub>2</sub>	1.90	2.98
		РМ	0.61	2.14
		PM <sub>10</sub>	0.61	2.14
		PM <sub>2.5</sub>	0.61	2.14
B-8	No. 15 Boiler	NO <sub>X</sub>	9.40	32.94
		СО	11.10	38.92
		VOC	0.84	2.96
		SO <sub>2</sub>	3.62	5.69
		РМ	1.17	4.09
		PM <sub>10</sub>	1.17	4.09
		PM <sub>2.5</sub>	1.17	4.09

No. 16 Boiler	NOx	13.16	32.94
	СО	11.11	38.92
	VOC	0.84	2.96
	SO <sub>2</sub>	3.62	5.69
	РМ	1.17	4.09
	PM <sub>10</sub>	1.17	4.09
	PM <sub>2.5</sub>	1.17	4.09
No. 1 Crude	NO <sub>X</sub>	18.59	46.46
Charge Heater	СО	21.96	82.34
	VOC	1.67	6.26
	SO <sub>2</sub>	7.16	12.03
	PM	2.31	8.66
	PM <sub>10</sub>	2.31	8.66
	PM <sub>2.5</sub>	2.31	8.66
No. 2 Crude	NOx	3.87	14.23
	СО	6.54	24.01
(*	VOC	0.50	1.83
	SO <sub>2</sub>	2.13	3.51
	РМ	0.69	2.52
	PM <sub>10</sub>	0.69	2.52
	PM <sub>2.5</sub>	0.69	2.52
	No. 1 Crude Charge Heater	CO	CO 11.11  VOC 0.84  SO <sub>2</sub> 3.62  PM 1.17  PM <sub>10</sub> 1.17  PM <sub>2.5</sub> 1.17  No. 1 Crude Charge Heater  CO 21.96  VOC 1.67  SO <sub>2</sub> 7.16  PM 2.31  PM <sub>0</sub> 2.31  PM <sub>0</sub> 3.87  CO 6.54  VOC 0.69  PM 0.69  PM <sub>10</sub> 0.69

H-13	Gas Oil Frac.	NO <sub>X</sub>	4.00	17.52
	Heater	СО	2.84	12.42
		VOC	0.22	0.94
		SO <sub>2</sub>	0.93	1.81
		РМ	0.30	1.31
		PM <sub>10</sub>	0.30	1.31
		PM <sub>2.5</sub>	0.30	1.31
H-14	Unifiner Charge	NO <sub>X</sub>	2.60	11.38
	Heater	СО	1.88	8.23
		VOC	0.14	0.63
		SO <sub>2</sub>	0.61	1.20
		РМ	0.20	0.87
		PM <sub>10</sub>	0.20	0.87
		PM <sub>2.5</sub>	0.20	0.87
H-15	No. 1 Naphtha	NO <sub>x</sub>	1.63	7.12
	Hydrotreater Desulfurizer Boiler	со	2.56	11.22
		VOC	0.19	0.85
		SO <sub>2</sub>	0.84	1.64
		РМ	0.27	1.18
		PM <sub>10</sub>	0.27	1.18
		PM <sub>2.5</sub>	0.27	1.18
H-18	No. 1 Reformer	NO <sub>X</sub>	17.96	52.81
	Charge Heater	СО	25.45	33.37
		VOC	1.94	6.47
		SO <sub>2</sub>	8.31	12.43
		PM	2.68	8.94
		PM <sub>10</sub>	2.68	8.94
		PM <sub>2.5</sub>	2.68	8.94

H-2	No. 1 Vacuum	NO <sub>X</sub>	3.08	11.52
	Charge Heater	СО	6.24	11.66
		VOC	0.47	1.77
		SO <sub>2</sub>	2.04	3.41
		PM	0.66	2.45
		PM <sub>10</sub>	0.66	2.45
		PM <sub>2.5</sub>	0.66	2.45
H-26	No. 2 Vacuum	NO <sub>X</sub>	4.06	15.76
	Charge Heater	СО	6.55	25.39
		VOC	0.50	1.93
		SO <sub>2</sub>	2.14	3.71
		РМ	0.69	2.67
		PM <sub>10</sub>	0.69	2.67
		PM <sub>2.5</sub>	0.69	2.67
H-27	P/P Mole Sieve	NO <sub>X</sub>	1.35	0.76
	Regeneration Heater	СО	0.68	0.38
		VOC	0.05	0.03
		SO <sub>2</sub>	0.22	0.06
		РМ	0.07	0.04
		PM <sub>10</sub>	0.07	0.04
		PM <sub>2.5</sub>	0.07	0.04
H-28	Active Butane	NO <sub>X</sub>	1.16	5.07
	Oxygenate Heater	СО	0.84	3.67
		VOC	0.06	0.28
		SO <sub>2</sub>	0.27	0.54
		РМ	0.09	0.39
		PM <sub>10</sub>	0.09	0.39
		PM <sub>2.5</sub>	0.09	0.39

Hydrotreater Charge Heater    CO	H-34	No. 1 Reformer	NO <sub>X</sub>	3.08	13.48
SO <sub>2</sub>   0.59   1.16     PM		Stabilizer Reboiler	СО	1.82	7.96
PM 0.19 0.84 PM <sub>10</sub> 0.19 0.84 PM <sub>25</sub> 0.19 0.84 PM <sub>25</sub> 0.19 0.84 H-36 H-36 No. 2 Naphtha Hydrotreater Charge Heater  No. 2 Naphtha Hydrotreater Charge Heater  No. 2 Naphtha PM <sub>10</sub> 0.43 1.88 PM <sub>10</sub> 0.43 1.88 PM <sub>25</sub> 0.43 1.89 PM <sub>25</sub> 0.43 1.99 PM <sub>25</sub> 0.48 1.19 PM <sub>10</sub> 0.48 1.19 PM <sub>10</sub> 0.48 1.19 PM <sub>25</sub> 0.49 1.19 PM <sub>2</sub>			VOC	0.14	0.61
PM10   0.19   0.84     PM25   0.19   0.84     PM26   0.19   0.84     PM27   0.19   0.84     PM28   0.19   0.80     PM28   0.10   0.10     PM29   0.10   0.10     PM29   0.10   0.10     PM29   0.10   0.10     PM29   0.10   0.10     PM25   0.10   0.10     PM26   0.10   0.10			SO <sub>2</sub>	0.59	1.16
H-36  No. 2 Naphtha Hydrotreater Charge Heater  No. 2 Naphtha Hydrotreater Charge Heater  Holder  No. 2 Naphtha Hydrotreater Charge Heater  No. 2 Naphtha Hydrotreater Desulfurizier Reboiler  No. 3 1.88  No. 4.54  No. 5.40  No. 4.54  No. 6.40  15.97  CO  4.54  11.32  VOC  0.34  0.86  SO2  1.48  1.65  PM  0.48  1.19  PM <sub>10</sub> 0.48  1.19  PM <sub>25</sub> 0.48  1.19  No. 13.58  42.07  CO  24.67  66.53  VOC  1.88  5.82  SO2  8.05  11.17  PM  2.59  8.04			PM	0.19	0.84
H-36  No. 2 Naphtha Hydrotreater Charge Heater  No. 2 Naphtha Hydrotreater Charge Heater  No. 2 Naphtha Hydrotreater Charge Heater  No. 2 Naphtha PM <sub>10</sub> No. 2 Naphtha PM <sub>25</sub> No. 3 Na 3 Na 8  No. 2 Naphtha PM <sub>25</sub> No. 2 Naphtha PM <sub>25</sub> No. 2 Naphtha PM <sub>25</sub> No. 3 Na 3 Na 3 Na 4 Na 1.19  PM <sub>10</sub> No. 3 Na 1.358  No. 2 Naphtha PM <sub>25</sub> No. 3 Na 1.358  No. 2 Naphtha PM <sub>25</sub> No. 3 Na 1.358  No. 2 Naphtha PM <sub>25</sub> No. 3 N			PM <sub>10</sub>	0.19	0.84
Hydrotreater Charge Heater  (CO			PM <sub>2.5</sub>	0.19	0.84
Charge Heater    CO	H-36		NO <sub>X</sub>	1.78	7.80
H-37  No. 2 Naphtha Hydrotreater Desulfurizier Reboiler  H-38  #2 Reformer Charge Heater  #2 Reformer Charge Heater  #2 Reformer Charge Heater  PM			СО	4.07	8.92
H-37  No. 2 Naphtha Hydrotreater Desulfurizier Reboiler  No. 3		onal go i loato.	VOC	0.31	1.36
H-37    No. 2 Naphtha Hydrotreater Desulfurizier Reboiler   No. 34			SO <sub>2</sub>	1.33	2.61
H-37  No. 2 Naphtha Hydrotreater Desulfurizier Reboiler  No. 2 Naphtha Hox 6.40  CO 4.54  11.32  VOC 0.34  0.86  SO <sub>2</sub> 1.48  1.65  PM  0.48  1.19  PM <sub>10</sub> PM <sub>2.5</sub> 0.48  1.19  H-38  H-38  #2 Reformer Charge Heater  Charge Heater  No. 13.58  42.07  CO 24.67  66.53  VOC 1.88  5.82  SO <sub>2</sub> 8.05  11.17  PM  2.59  8.04  PM <sub>10</sub> 2.59  8.04			РМ	0.43	1.88
H-37    No. 2 Naphtha Hydrotreater Desulfurizier Reboiler   NOx   6.40   15.97			PM <sub>10</sub>	0.43	1.88
Hydrotreater Desulfurizier Reboiler  CO 4.54 11.32  VOC 0.34 0.86  SO <sub>2</sub> 1.48 1.65  PM 0.48 1.19  PM <sub>10</sub> 0.48 1.19  PM <sub>2.5</sub> 0.48 1.19  H-38  #2 Reformer Charge Heater  CO 4.54 11.32  VOC 0.34 0.86  SO <sub>2</sub> 1.48 1.65  PM 0.48 1.19  PM <sub>2.5</sub> 0.48 1.19  VOC 1.88 5.82  SO <sub>2</sub> 8.05 11.17  PM 2.59 8.04  PM <sub>10</sub> 2.59 8.04			PM <sub>2.5</sub>	0.43	1.88
H-38  #2 Reformer Charge Heater  #2 Reformer Charge Heater  #2 Reformer Charge Heater  #2 Reformer Charge Heater  #3 NOx 13.58 42.07  CO 24.67 66.53  VOC 0.34 0.86  1.65  PM 0.48 1.19  PM <sub>2.5</sub> 0.48 1.19  NOx 13.58 42.07  CO 24.67 66.53  VOC 1.88 5.82  SO <sub>2</sub> 8.05 11.17  PM 2.59 8.04  PM <sub>10</sub> 2.59 8.04	H-37	No. 2 Naphtha	NO <sub>X</sub>	6.40	15.97
$ \begin{tabular}{lllllllllllllllllllllllllllllllllll$			СО	4.54	11.32
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			VOC	0.34	0.86
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			SO <sub>2</sub>	1.48	1.65
H-38  #2 Reformer Charge Heater  #2 Reformer Charge Heater  #2 Reformer Charge Heater    NO <sub>x</sub>   13.58   42.07     CO   24.67   66.53     VOC   1.88   5.82     SO <sub>2</sub>   8.05   11.17     PM   2.59   8.04     PM <sub>10</sub>   2.59   8.04			РМ	0.48	1.19
H-38  #2 Reformer Charge Heater    NOx   13.58   42.07			PM <sub>10</sub>	0.48	1.19
Charge Heater       CO       24.67       66.53         VOC       1.88       5.82         SO2       8.05       11.17         PM       2.59       8.04         PM <sub>10</sub> 2.59       8.04			PM <sub>2.5</sub>	0.48	1.19
VOC       1.88       5.82         SO2       8.05       11.17         PM       2.59       8.04         PM <sub>10</sub> 2.59       8.04	H-38		NO <sub>X</sub>	13.58	42.07
SO2       8.05       11.17         PM       2.59       8.04         PM <sub>10</sub> 2.59       8.04		Charge Heater	СО	24.67	66.53
PM       2.59       8.04         PM <sub>10</sub> 2.59       8.04			VOC	1.88	5.82
PM <sub>10</sub> 2.59 8.04			SO <sub>2</sub>	8.05	11.17
			PM	2.59	8.04
PM <sub>2.5</sub> 2.59 8.04			PM <sub>10</sub>	2.59	8.04
			PM <sub>2.5</sub>	2.59	8.04

H-39	#2 Reformer	NO <sub>X</sub>	3.47	12.78
	Stabilizer Reboiler Heater	СО	2.05	7.55
	T Toute	VOC	0.16	0.57
		SO <sub>2</sub>	0.67	1.10
		PM	0.22	0.79
		PM <sub>10</sub>	0.22	0.79
		PM <sub>2.5</sub>	0.22	0.79
H-40	No. 1 PDA Asphalt	NO <sub>X</sub>	10.21	37.17
	Heater (Asphalt- South)	со	5.66	10.29
		VOC	0.43	1.57
		SO <sub>2</sub>	1.85	3.01
		РМ	0.59	2.16
		PM <sub>10</sub>	0.59	2.16
		PM <sub>2.5</sub>	0.59	2.16
H-41	No. 2 Crude	NO <sub>X</sub>	16.40	71.83
	Charge-Born Heater	СО	21.93	36.49
		VOC	1.67	7.31
		SO <sub>2</sub>	7.16	14.03
		РМ	2.31	10.10
		PM <sub>10</sub>	2.31	10.10
		PM <sub>2.5</sub>	2.31	10.10
H-42	Hydrocracker	NO <sub>X</sub>	4.06	15.28
	Recycle Heater	СО	7.02	13.21
		VOC	0.53	2.01
		SO <sub>2</sub>	2.29	3.86
		PM	0.74	2.78
		PM <sub>10</sub>	0.74	2.78
		PM <sub>2.5</sub>	0.74	2.78

H-43	HCU Debutanizer	NOx	3.31	14.49
	Reboiler Heater	СО	6.17	13.52
		VOC	0.47	2.06
		SO <sub>2</sub>	2.01	3.95
		PM	0.65	2.84
		PM <sub>10</sub>	0.65	2.84
		PM <sub>2.5</sub>	0.65	2.84
H-45	No. 1 Naphtha	NOx	2.66	11.67
	Hydrotreater Charge Heater	СО	4.97	10.88
	Sharge Heater	VOC	0.38	1.66
		SO <sub>2</sub>	1.62	3.18
		PM	0.52	2.29
		PM <sub>10</sub>	0.52	2.29
		PM <sub>2.5</sub>	0.52	2.29
H-46	No. 1 Reformer	NO <sub>X</sub>	9.53	32.77
	No. 1 Interheater	СО	14.68	50.50
		VOC	1.12	3.84
		SO <sub>2</sub>	4.79	7.38
		PM	1.54	5.31
		PM <sub>10</sub>	1.54	5.31
		PM <sub>2.5</sub>	1.54	5.31
H-48	Diesel	NO <sub>X</sub>	3.42	14.98
	Hydrotreater Charge Heater	СО	6.73	14.74
	2.13.19003.101	VOC	0.51	2.24
		SO <sub>2</sub>	2.20	4.31
		PM	0.71	3.10
		PM <sub>10</sub>	0.71	3.10
		PM <sub>2.5</sub>	0.71	3.10

Emission Sources - Maximum Allowable Emission Rates

H-6	Dago Heater	NO <sub>X</sub>	3.39	14.87
		СО	2.01	8.78
		VOC	0.15	0.67
		SO <sub>2</sub>	0.65	1.28
		PM	0.21	0.92
		PM <sub>10</sub>	0.21	0.92
		PM <sub>2.5</sub>	0.21	0.92
H-64		NO <sub>X</sub>	1.27	5.54
	Charge Heater	со	2.36	5.17
		VOC	0.18	0.79
		SO <sub>2</sub>	0.77	1.51
		PM	0.25	1.09
		PM <sub>10</sub>	0.25	1.09
		PM <sub>2.5</sub>	0.25	1.09
H-8	HCU Charge	NO <sub>X</sub>	4.69	20.52
	Heater (Petrochem North)	со	6.27	27.45
		VOC	0.48	2.09
		SO <sub>2</sub>	2.04	4.01
		PM	0.66	2.88
		PM <sub>10</sub>	0.66	2.88
		PM <sub>2.5</sub>	0.66	2.88
H-80	FCC Gas HDS	NO <sub>X</sub>	3.05	13.36
	Charge Heater	СО	6.98	30.55
		VOC	0.53	2.32
		SO <sub>2</sub>	2.28	4.46
		РМ	0.73	3.21
		PM <sub>10</sub>	0.73	3.21
		PM <sub>2.5</sub>	0.73	3.21
H-88	Acid Plant Startup	NO <sub>X</sub>	0.79	3.46
	Heater (Intermittent)	со	0.40	1.75
	(····c····y	VOC	0.03	0.13
		SO <sub>2</sub>	0.13	0.26
		PM	0.04	0.18
		PM <sub>10</sub>	0.04	0.18
		PM <sub>2.5</sub>	0.04	0.18
H-89	H2 Unit Reformer	NO <sub>x</sub>	5.33	15.58

		СО	27.17	59.50
		VOC	1.92	8.40
		SO <sub>2</sub>	5.41	11.86
		PM	2.65	11.61
		PM <sub>10</sub>	2.65	11.61
		PM <sub>2.5</sub>	2.13	9.35
		HAPs	0.66	2.88
		NH <sub>3</sub>	1.65	7.24
H-9	No. 2 Crude	NO <sub>X</sub>	3.02	13.25
	Heater (Petrochem	СО	3.40	7.45
	South)	VOC	0.26	1.13
		SO <sub>2</sub>	1.11	2.18
		PM	0.36	1.57
		PM <sub>10</sub>	0.36	1.57
		PM <sub>2.5</sub>	0.36	1.57
F-20	No. 1 Refinery	VOC (5) (6)	3.52	15.40
	Cooling Tower	Benzene	0.21	0.92
		PM	3.06	13.41
		PM <sub>10</sub>	0.51	2.24
		PM <sub>2.5</sub>	0.01	0.02
F-21	Gasoline Plant	VOC (5) (6)	2.90	12.69
	Cooling Tower	Benzene	0.17	0.76
		PM	2.54	11.13
		PM <sub>10</sub>	0.42	1.83
		PM <sub>2.5</sub>	< 0.01	0.02
F-47	No. 2 Refinery	VOC (5) (6)	2.28	9.97
	Cooling Tower	Benzene	0.14	0.59
		PM	2.16	9.48
		PM <sub>10</sub>	0.30	1.29
		PM <sub>2.5</sub>	< 0.01	0.01

E-7	Unifiner Engine	NOx	4.56	19.98
	(Clark)	со	0.08	0.36
		VOC	0.17	0.76
		SO <sub>2</sub>	0.01	0.01
		PM	0.07	0.29
		PM <sub>10</sub>	0.07	0.29
		PM <sub>2.5</sub>	0.07	0.29
FL-9	Brine Degas Drum	NO <sub>X</sub>	8.21	0.99
		со	16.38	1.98
		VOC	30.15	5.52
FL-6	Wastewater Flare	NO <sub>X</sub>	2.09	4.59
		СО	10.66	23.38
		VOC	5.00	10.94
		SO <sub>2</sub>	2.03	1.33
		H <sub>2</sub> S	0.02	0.01
		NH <sub>3</sub>	< 0.01	< 0.01
Combined Compliance Short Term		NO <sub>X</sub>	40.46	34.31
for Flares FL-1, FL-3, FL-4, and FL-	-8 (8)	СО	210.06	190.66
		VOC	352.09	179.46
		SO <sub>2</sub>	19.05	15.69
		H <sub>2</sub> S	6.07	0.27
FGR-SUMP	FGR Oily Water Sump	voc	0.03	0.07
FL-7	Loading Rack	NO <sub>X</sub>	6.39	8.83
	Vapor Combustor	СО	15.73	21.89
		VOC (6)	19.23	9.71
		Benzene	6.87	1.38
		SO <sub>2</sub>	0.09	0.02
		PM	0.26	0.17
		PM <sub>10</sub>	0.26	0.17
		PM <sub>2.5</sub>	0.26	0.17
L-2	Asphalt Truck Loading Rack	voc	10.60	5.85
L-11	Railcar/ Truck	VOC (6)	10.48	10.20
	Loading Rack	Benzene	0.32	0.32
L-7	Asphalt Railcar Rack	voc	6.97	12.82

V-29	Sulfuric Acid Plant	SO <sub>2</sub>	21.67	7.36
	Vent	H <sub>2</sub> SO <sub>4</sub>	0.63	2.74
V-20	F.C.C.U.	NO <sub>X</sub>	220.11	163.36
	(Fluidized Catalytic Cracking	СО	37.80	93.07
	Unit)	VOC	10.55	38.19
		SO <sub>2</sub>	459.69	138.69
		PM	80.00	294.02
		PM <sub>10</sub>	80.00	294.02
		PM <sub>2.5</sub>	80.00	294.02
		NH <sub>3</sub>	40.74	146.00
		H <sub>2</sub> SO <sub>4</sub>	12.40	41.98
		Hydrogen Cyanide	25.20	108.54
V-18	No. 1 Reformer	СО	3.27	14.31
	Cat Regenerator Vent	VOC	0.61	2.68
		HCI	0.15	0.67
		Cl <sub>2</sub>	0.04	0.19
V-21	No. 2 Reformer	СО	70.00	3.36
	Cat Regenerator Vent	VOC	0.03	< 0.01
		HCI	1.06	0.05
		Cl <sub>2</sub>	0.31	0.01
V-13	Soda Ash Silo	PM	0.09	0.02
		PM <sub>10</sub>	0.09	0.02
		PM <sub>2.5</sub>	0.09	0.02
V-14	Lime Silo Vent	PM	0.09	0.02
		PM <sub>10</sub>	0.09	0.02
		PM <sub>2.5</sub>	0.09	0.02
V-17	FCC Catalyst Silo	PM	0.01	0.01
	Vent	PM <sub>10</sub>	0.01	0.01
		PM <sub>2.5</sub>	0.01	0.01

V-5	SRU No. 1 Incinerator	NOx	0.40	1.75
		СО	1.87	8.20
		VOC	0.19	0.82
		SO <sub>2</sub>	10.69	46.84
		H <sub>2</sub> S	0.11	0.50
		PM	0.38	1.67
		PM <sub>10</sub>	0.38	1.67
		PM <sub>2.5</sub>	0.38	1.67
V-16	SRU No. 2 Incinerator	NO <sub>X</sub>	0.56	2.45
		СО	13.66	59.82
		VOC	0.20	0.87
		SO <sub>2</sub>	10.96	48.01
		H <sub>2</sub> S	0.12	0.51
		PM	0.84	3.68
		PM <sub>10</sub>	0.84	3.68
		PM <sub>2.5</sub>	0.84	3.68
V-30	FCCU Spent Catalyst Roll Off Boxes	PM	< 0.01	< 0.01
		PM <sub>10</sub>	< 0.01	< 0.01
		PM <sub>2.5</sub>	< 0.01	< 0.01
S-044	Tank 144	Caustic	0.01	0.01
S-142	Tank 232	Caustic	0.01	0.01
CARBON CAN	Carbon Canister System Fugitives (CAS1 – CAS9)	VOC	3.24	5.68
F-1CRUDE, F-1REF_HT,	Cap for Fugitives	VOC (5) (6)	151.27	662.17
F-2CRUDE, F-2REF_HT, F-4HT, F-HCU, F-ALKY_PDA, F-ALKY,		Benzene (5)	0.99	4.31
F-ASPHALT, F-CAVERN, F-FGR,		H <sub>2</sub> S (5)	0.24	1.02
F-DESALT, F-DHDSU, F-ETNKFRM. F-FCCU, F-GASBLD, F-GASPLT, F-GHDS, F-HDS_GOF, F-LPG, F-IOCTENE, F-NBULKLD, F-NTNKFRM, F-ORU, F-PENEX, F-PUMPSTA, F-RAILLOAD, F-RLE, F-SBULKLD, F-SRU1, F-SRU2, F-SWS, F-UNIFINER, F-WTNKFRM, F-MSAT, F-WWTP, F-AMINE2, F-MSATLOAD, F-SUMP		NH₃ (5)	0.03	0.14

S-168, S-173, S-174, S-175, S-184, S-195, S-196, S-197, S-199, S-227, S-228,	Cap for Storage Tanks	VOC (6)	3.08	6.57
		Benzene	0.01	0.02
OX-001	Wastewater Sludge Centrifuge Catalytic Oxidizer	NO <sub>X</sub>	< 0.01	< 0.01
		СО	0.34	1.48
		VOC	0.03	0.11
		SO <sub>2</sub>	1.25	5.49
		PM	< 0.01	< 0.01
		PM <sub>10</sub>	< 0.01	< 0.01
		PM <sub>2.5</sub>	< 0.01	< 0.01
ADDITIVETK	Biodiesel Additive Tank	voc	5.03	1.68
F-85	Painting	VOC	4.25	1.26
F-BRINE	Brine Pond Fugitives	VOC (5)	23.74	2.80
MSS_ABRBLS	Abrasive Blasting Operation	PM	0.54	0.37
		PM <sub>10</sub>	0.07	0.05
		PM <sub>2.5</sub>	< 0.01	< 0.01
F-HYDROGEN	H2 Unit Fugitives (5)	VOC	0.37	1.47
		со	2.34	10.26
		SO <sub>2</sub>	0.01	0.01
		NH <sub>3</sub>	0.01	0.05
FL-4	H2 Unit MSS Emissions from Flares (9)	NO <sub>x</sub>	20.58	3.59
		со	104.86	17.73
		VOC	0.16	0.01
		SO <sub>2</sub>	1.70	0.03
		NH <sub>3</sub>	18.25	0.44
H2-MSS	H2 Unit MSS (10)	со	15.34	10.99
		VOC	0.72	0.03
		H <sub>2</sub> S	0.01	0.01
		PM	0.09	0.01
		1 101	0.00	

	PM <sub>2.5</sub>	0.01	0.01	
		NH₃	0.08	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
  - 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>, as represented
  - PM<sub>10</sub> total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as
    - represented
  - PM<sub>2.5</sub> particulate matter equal to or less than 2.5 microns in diameter
  - $\begin{array}{lll} \text{CO} & \text{ carbon monoxide} \\ \text{H}_2\text{S} & \text{ hydrogen sulfide} \\ \text{H}_2\text{SO}_4 & \text{ sulfuric acid} \\ \text{HCI} & \text{ hydrogen chloride} \\ \end{array}$
  - HAPs hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of
    - Federal Regulations Part 63, Subpart C
  - $\begin{array}{ccc} NH_3 & & \ ammonia \\ CI_2 & & \ chlorine \end{array}$
- (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 rate includes Benzene emissions.
- (7) See Attachment D for a list of sources included in the Maintenance Emissions Cap.
- (8) The caps for flares include emissions associated with the flare gas recovery maintenance.
- (9) Includes only maintenance, startup, and shutdown (MSS) emissions from the activities authorized in the special conditions controlled by the No. 3 Hydrocracking Unit (HCU) Flare authorized in Permit Number 9708.
- (10) Includes only MSS emissions from the activities authorized in the special conditions.

Date:	April 25, 2023	