

EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION LIMITATIONS

Permit Numbers 9708 and PSDTX861M2

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. Any proposed increase in emission rates may require an application for a modification of the facilities covered by this permit.

(See Attachment I for Source Name and Emission Point Number Index)

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates	
			lb/hr	TPY (4)
	VOC CAPS: Combustion Units, Tanks, Process Vents, Loading, Flares, Vapor Combustors, Fugitives (5), Wastewater, Cooling Towers, Engines, Relief Valves, and Maintenance	VOC	2114.00	1510.00
	VOC SUBCAP: (7) Tanks (S-001, S-009, S-021, and S-229), New Railcar Rack (L-15), Vapor Combustor (FL-7), Fugitives (F-MSAT and F-MSATLOAD) (5)	VOC	25.30	43.39
	NO_x CAPS: (8) Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance	NO _x	490.80	1701.00
	NO_x SUBCAP: (7) Vapor Combustor (FL-7)	NO _x	2.33	1.29
	CO CAPS: Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance	CO	1408.00	3275.00
	CO SUBCAP: (7) Vapor Combustor (FL-7)	CO	7.17	4.22
	SO₂ CAPS: Combustion Units, Flares, Vapor Combustors, Process Vents, Loading, Engines, and Maintenance	SO ₂	1120.00	2604.00

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

SO₂ SUBCAP: (7) Vapor Combustor (FL-7)		SO ₂	0.09	0.03
PM CAPS: Combustion Units, Flares, Vapor Combustors, Process Vents, Engines, and Maintenance		PM	138.00	569.80
BENZENE CAPS: Tanks, Cooling Towers, Loading, and Fugitives (5)		Benzene	11.90	18.34
BENZENE SUBCAP: (7) Tanks (S-001, S-009, and S-021), New Railcar Rack (L-15), Vapor Combustor (VCU-2), Fugitives (F-MSAT and F-MSATLOAD) (5)		Benzene	9.51	11.94
H₂S CAPS: Flares, Process Vents, Fugitives, and Maintenance		H ₂ S	7.60	0.70
SULFURIC ACID CAPS (H₂SO₄): Process Vents		H ₂ SO ₄	12.40	54.10
CHLORINE CAPS: Process Vents		Chlorine	0.40	0.50
HCl CAPS: Process Vents and Maintenance		HCL	7.10	4.29
NH₃ CAPS: Process Vents, Fugitives, and Maintenance		NH ₃	800.40	164.80
MAINTENANCE EMISSIONS CAPS: (6)		VOC	3671.97	46.52
		NO _x	97.28	2.45
		CO	646.55	7.40
		SO ₂	1768.80	6.13
		H ₂ S	19.31	0.05
		HCl	4.00	0.002
		NH ₃	700.00	0.95
		PM	1.98	0.40
B-10	No. 18 Boiler	NO _x	57.88	132.51
		CO	34.12	66.33
		VOC	1.21	3.79
		SO ₂	4.92	6.77
		PM	1.67	5.23
B-11	No. 19 Boiler	NO _x	8.73	38.23
		CO	18.93	82.93
		VOC	1.21	3.24
		SO ₂	4.72	6.13
		PM	1.67	4.47
B-12	600# Boiler	NO _x	492.85	172.69
		CO	20.85	73.05

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		VOC	1.33	4.66
		SO ₂	5.84	11.91
		PM	1.84	6.43
B-19	300# Steam Boiler #1	NO _x	5.80	20.30
		CO	13.50	47.31
		VOC	0.89	3.11
		SO ₂	4.60	16.28
		PM	1.20	4.30
B-20	300# Steam Boiler #2	NO _x	5.80	20.30
		CO	13.50	47.31
		VOC	0.89	3.11
		SO ₂	4.60	16.28
		PM	1.20	4.30
B-21	300# Steam Boiler #3	NO _x	5.80	20.30
		CO	13.50	47.31
		VOC	0.89	3.11
		SO ₂	4.60	16.28
		PM	1.20	4.30
B-3	No. 10 Boiler	NO _x	23.65	82.85
		CO	17.80	22.23
		VOC	0.40	1.41
		SO ₂	2.09	3.53
		PM	0.56	1.95
B-4	No. 11 Boiler	NO _x	17.01	59.59
		CO	7.57	18.32
		VOC	0.48	1.59
		SO ₂	1.78	2.35
		PM	0.67	2.18
B-6	No. 13 Boiler	NO _x	17.24	60.42
		CO	6.95	17.59
		VOC	0.44	1.55
		SO ₂	1.81	2.30
		PM	0.61	2.14
B-8	No. 15 Boiler	NO _x	40.53	65.89
		CO	25.20	46.45
		VOC	0.84	2.34
		SO ₂	3.22	4.05
		PM	1.17	3.23
B-9	No. 16 Boiler	NO _x	40.53	35.14
		CO	12.78	46.45
		VOC	0.84	2.96
		SO ₂	3.61	5.57
		PM	1.17	4.08

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		PM		
H-1	No. 1 Crude Charge Heater	NO _x	31.83	46.46
		CO	22.44	91.10
		VOC	1.43	6.26
		SO ₂	7.44	14.96
		PM	1.98	8.66
H-11	No. 2 Crude Charge Heater (Anderson)	NO _x	3.25	14.23
		CO	6.54	14.11
		VOC	0.42	1.83
		SO ₂	2.17	4.27
		PM	0.58	2.52
H-13	Gas Oil Frac. Heater	NO _x	15.69	68.72
		CO	3.41	14.95
		VOC	0.22	0.95
		SO ₂	1.13	1.97
		PM	0.30	1.32
H-14	Unifiner Charge Heater	NO _x	2.60	11.39
		CO	2.24	9.83
		VOC	0.14	0.63
		SO ₂	0.03	0.11
		PM	0.20	0.87
H-15	No. 1 Hydrotreater Charge Heater	NO _x	1.63	7.12
		CO	3.06	12.00
		VOC	0.19	0.70
		SO ₂	0.84	1.41
		PM	0.27	0.96
H-18	C.C.R. Charge Heater	NO _x	13.70	52.81
		CO	11.30	19.80
		VOC	1.48	6.47
		SO ₂	7.68	13.27
		PM	2.04	8.94
H-2	No. 1 Vacuum Charge Heater	NO _x	3.53	15.47
		CO	6.36	12.75
		VOC	0.41	1.77
		SO ₂	2.11	3.91
		PM	0.56	2.45
H-26	No. 2 Vacuum Charge Heater	NO _x	3.60	15.76
		CO	6.92	30.30
		VOC	0.44	1.93
		SO ₂	2.29	4.22
		PM	0.61	2.67
H-27	"P/P" Mole Sieve	NO _x	0.99	0.76

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

	Regeneration Heater	CO	0.60	0.65
		VOC	0.04	0.04
		SO ₂	0.20	0.22
		PM	0.05	0.06
H-28	Active Butane Oxygenate Heater	NO _x	1.16	5.08
		CO	1.00	3.25
		VOC	0.06	0.28
		SO ₂	0.33	1.45
		PM	0.09	0.39
H-30	Asphalt Tank Heaters (5501 and 5502)	NO _x	2.54	11.12
		CO	0.82	3.57
		VOC	0.05	0.23
		SO ₂	0.27	1.18
		PM	0.07	0.31
H-31B	Tanks 27, 28 Heater	NO _x	0.44	1.92
		CO	0.14	0.62
		VOC	0.01	0.04
		SO ₂	0.05	0.20
		PM	0.01	0.05
H-32	Tank Heaters ("20MS" and "20M6")	NO _x	0.80	3.50
		CO	0.56	2.46
		VOC	0.04	0.16
		SO ₂	0.19	0.82
		PM	0.05	0.22
H-32C	Asphalt Tank Heater "20M7"	NO _x	0.33	1.43
		CO	0.28	1.23
		VOC	0.02	0.08
		SO ₂	0.09	0.41
		PM	0.02	0.11
H-33	Tank Heaters 34, 551, 121, 141, and 552	NO _x	1.99	8.74
		CO	1.40	6.16
		VOC	0.09	0.39
		SO ₂	0.46	2.04
		PM	0.12	0.54
H-34	C.C.D.R. Stabilizer Reboiler Heater	NO _x	3.08	20.45
		CO	2.17	8.68
		VOC	0.14	0.59
		SO ₂	0.68	1.21
		PM	0.19	0.81
H-35	Tank "300M2" Heaters (4 Stacks)	NO _x	1.59	6.99
		CO	1.12	4.93
		VOC	0.07	0.31

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		SO ₂	0.37	1.63
		PM	0.10	0.43
H-36	No. 2 Naphtha Hydrotreater Charge Heater	NO _x	1.78	7.80
		CO	4.86	5.72
		VOC	0.31	0.97
		SO ₂	1.11	1.70
		PM	0.43	1.34
H-37	No. 2 Naphtha Hydrotreater Des2 Reboiler	NO _x	6.40	15.97
		CO	2.41	9.59
		VOC	0.16	0.65
		SO ₂	0.30	1.21
		PM	0.22	0.89
H-38	#2 Reformer Charge Heater	NO _x	13.58	59.46
		CO	29.45	81.85
		VOC	1.88	5.02
		SO ₂	6.73	10.28
		PM	2.59	6.93
H-39	#2 Reformer Stabilizer Reboiler Heater	NO _x	2.92	12.78
		CO	2.06	6.59
		VOC	0.13	0.44
		SO ₂	0.63	0.89
		PM	0.18	0.60
H-40	P.D.A. Asph. Htr.	NO _x	8.49	37.17
		CO	5.61	5.11
		VOC	0.36	1.00
		SO ₂	1.40	1.59
		PM	0.49	1.37
H-41	No. 2 Crude Charge Heater	NO _x	16.40	71.83
		CO	26.18	13.21
		VOC	1.67	6.99
		SO ₂	8.36	14.12
		PM	2.31	9.66
H-42	Hydrocracker Recycle Heater	NO _x	3.49	15.28
		CO	7.20	12.64
		VOC	0.46	1.98
		SO ₂	2.39	2.99
		PM	0.63	2.73

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

H-43	Hydrocracker "DEC4" Reboiler Heater	NO _x	3.31	14.49
		CO	7.37	11.77
		VOC	0.47	1.85
		SO ₂	2.36	3.84
		PM	0.65	2.55
H-45	#1 Hydrotreater Charge Heater	NO _x	2.66	11.67
		CO	5.93	4.82
		VOC	0.35	0.73
		SO ₂	0.89	1.44
		PM	0.48	1.01
H-46	C.C.R. Interheater	NO _x	7.48	32.77
		CO	13.76	60.27
		VOC	0.88	3.84
		SO ₂	4.56	8.79
		PM	1.21	5.31
H-47	Asphalt Blowstill Heater	NO _x	0.90	3.95
		CO	1.02	2.89
		VOC	0.06	0.21
		SO ₂	0.27	0.35
		PM	0.09	0.28
H-48	Turbine Fuel HDSU Heater	NO _x	3.78	16.55
		CO	8.88	14.24
		VOC	0.57	2.45
		SO ₂	2.94	4.26
		PM	0.78	3.38
H-51	Asphalt Tank Heater 300M3 (4 Stacks)	NO _x	0.53	2.33
		CO	1.12	4.93
		VOC	0.07	0.31
		SO ₂	0.37	1.63
		PM	0.10	0.43
H-6	Dago Heater	NO _x	3.39	14.87
		CO	2.32	6.22
		VOC	0.15	0.44
		SO ₂	0.60	0.71
		PM	0.21	0.59
H-64	No. 4 Hydrotreater Charge Heater	NO _x	1.26	5.54
		CO	2.81	12.33
		VOC	0.18	0.71
		SO ₂	0.86	1.34
		PM	0.25	0.96
H-70	No. 2 Crude Charge Heater	NO _x	4.25	18.63
		CO	9.90	43.40

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		VOC	0.66	2.87
		SO ₂	3.40	14.90
		PM	0.90	3.97
H-71	No. 3 Vacuum Heater	NO _x	2.13	6.06
		CO	5.00	14.10
		VOC	0.30	0.90
		SO ₂	1.70	4.80
		PM	0.45	1.29
H-72	PDA Asphalt Heater	NO _x	1.55	6.78
		CO	3.60	15.80
		VOC	0.20	1.00
		SO ₂	1.20	5.40
		PM	0.30	1.40
H-73	No. 3 Crude Heater-Petrochem (North)	NO _x	3.80	16.52
		CO	8.80	38.40
		VOC	0.60	2.50
		SO ₂	3.00	13.20
		PM	0.80	3.50
H-74	Hydrocracker Recycle Heater	NO _x	4.20	15.25
		CO	8.10	35.50
		VOC	0.50	2.30
		SO ₂	2.80	12.20
		PM	0.70	3.20
H-75	Hydrocracker "DEC4" Reboiler Heater	NO _x	3.80	13.98
		CO	7.40	32.50
		VOC	0.50	2.20
		SO ₂	2.60	11.20
		PM	0.70	3.00
H-76	Diesel Hydrotreater Charge Heater	NO _x	2.01	8.81
		CO	4.86	21.29
		VOC	0.31	1.36
		SO ₂	1.61	7.06
		PM	0.43	1.88
H-77	No. 1 Reformer Charge Heater	NO _x	12.29	53.82
		CO	28.60	125.26
		VOC	1.89	8.29
		SO ₂	9.83	43.04
		PM	2.62	11.46
H-78	No. 1 Reformer Interheaters	NO _x	3.67	16.09
		CO	8.55	37.46
		VOC	0.57	2.48
		SO ₂	2.94	12.87
		PM	0.79	2.42

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

		PM		
H-79	No. 1 Ref. Stabilizer Reboiler	NO _x	1.16	5.08
		CO	2.70	11.83
		VOC	0.18	0.78
		SO ₂	0.93	4.06
		PM	0.25	1.08
H-8	HCU Fractionation Charge Heater	NO _x	4.69	20.52
		CO	7.22	28.77
		VOC	0.48	1.42
		SO ₂	1.93	3.69
		PM	0.66	1.96
H-80	FCC Gas HDS Charge Heater	NO _x	3.05	13.36
		CO	8.33	36.46
		VOC	0.53	2.32
		SO ₂	2.33	5.03
		PM	0.73	3.21
H-81	C4 ISOM Heater	NO _x	0.31	1.36
		CO	0.70	3.20
		VOC	0.05	0.20
		SO ₂	0.20	1.09
		PM	0.07	0.29
H-82	Coker Heater	NO _x	5.80	25.40
		CO	13.50	59.10
		VOC	0.89	3.90
		SO ₂	4.60	20.30
		PM	1.20	5.40
H-83	Polymer Modified Asphalt Heater	NO _x	0.39	1.69
		CO	0.90	3.90
		VOC	0.06	0.26
		SO ₂	0.30	1.36
		PM	0.08	0.36
H-84	No. 2 Reformer No. 1 Interheater	NO _x	3.79	16.60
		CO	8.80	38.60
		VOC	0.58	2.56
		SO ₂	3.00	13.30
		PM	0.80	3.50
H-85	No. 2 Ref. Stab. Reboiler	NO _x	1.52	6.67
		CO	3.50	15.50
		VOC	0.20	1.00
		SO ₂	1.20	5.30
		PM	0.30	1.40
H-86	No. 2 Naphtha	NO _x	2.00	8.81

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

	Hydrotreater Charge Heater (Final)	CO	4.70	20.50
		VOC	0.30	1.40
		SO ₂	1.60	7.00
		PM	0.40	1.90
H-87	SRU No. 3 Hot Oil Heater	NO _x	0.72	3.15
		CO	1.70	7.30
		VOC	0.10	0.49
		SO ₂	0.58	2.50
		PM	0.15	0.67
H-88	Acid Plant Feed Heater	NO _x	0.79	3.46
		CO	0.48	0.43
		VOC	0.03	0.03
		SO ₂	0.16	0.50
		PM	0.04	0.04
H-9	No. 3 Crude Heater-Petrochem (South)	NO _x	13.08	57.31
		CO	7.48	6.99
		VOC	0.37	1.22
		SO ₂	1.36	2.16
		PM	0.51	1.68
F-20	No. 1 Refinery Cooling Tower	VOC	2.62	11.46
F-21	Gasoline Plant Cooling Tower (4)	VOC	1.75	7.68
F-47	No. 2 Refinery Cooling Tower	VOC	1.29	5.63
F-93	No. 3 Refinery Cooling Tower	VOC	1.89	8.28
E-7	Unifiner Engine (Clark)	NO _x	4.56	19.98
		CO	0.56	2.44
		VOC	0.17	0.76
		SO ₂	0.01	0.01
		PM	0.07	0.29
FL-9	Brine Degas Drum Flare	NO _x	8.21	0.99
		CO	16.38	1.98
		VOC	30.15	5.52
		SO ₂	0.01	0.01
FL-8	No. 2 Main Refinery Flare (10)	NO _x	40.46	26.49
		CO	210.06	147.95
		VOC	352.09	141.07
		SO ₂	19.05	4.12
		H ₂ S	6.07	0.27
FL-1	No.1 Main Refinery Flare	NO _x	40.46	26.49

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

	(10)	CO	210.06	147.95
		VOC	352.09	141.07
		SO ₂	19.05	4.12
		H ₂ S	6.07	0.27
FL-3	FCCU Flare (10)	NO _x	40.46	26.49
		CO	210.06	147.95
		VOC	352.09	141.07
		SO ₂	19.05	4.12
		H ₂ S	6.07	0.27
FL-4	HCU Flare (10)	NO _x	40.46	26.49
		CO	210.06	147.95
		VOC	352.09	141.07
		SO ₂	19.05	4.12
		H ₂ S	6.07	0.27
FL-6	Wastewater Flare	NO _x	1.90	4.17
		CO	9.70	21.26
		VOC	4.54	9.95
		SO ₂	3.41	1.21
Combined Compliance Annual Caps for Flares FL-1, FL-3, FL-4, and FL-8		NO _x	--	26.49
		CO	--	147.95
		VOC	--	141.07
		SO ₂	--	4.12
		H ₂ S	--	0.27
FGR-SUMP	FGR Oily Water Sump	VOC	0.03	0.07
F-Coke PM	Coker PM Fugitives	PM	0.41	1.35
FL-7	Loading Rack Vapor Combustor	NO _x	6.12	9.98
		CO	17.79	27.45
		VOC	18.01	14.20
		SO ₂	0.13	0.06
L-13	Railcar Loading Rack	VOC	0.25	0.10
L-14	North Railcar Rack	VOC	18.35	0.81
L-2	Asphalt Truck Loading Rack	VOC	4.49	2.28
L-5/L-11	Railcar/ Truck Loading Rack	VOC	13.15	9.05
L-7	Asphalt Railcar Rack	VOC	0.42	1.37
V-29	Sulfuric Acid Plant Vent	SO ₂	21.67	70.17
V-22	Asphalt Blowstill Vent	NO _x	2.15	3.78
		CO	42.37	74.33
		VOC	2.15	3.78
		SO ₂	2.16	4.35
		PM	7.18	12.60

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

V-20	F.C.C.U. (Fluidized Catalytic Cracking Unit)	NO _x	220.11	163.36
		CO	37.80	93.07
		VOC	10.55	38.19
		SO ₂	459.69	138.69
		PM	80.00	294.02
		NH ₃ (9)	40.74	146.00
		H ₂ SO ₄	12.40	41.98
V-18	No. 1 Reformer Cat Regenerator Vent	CO	3.27	14.31
		VOC	0.62	2.72
V-21	No. 2 Reformer Cat Regenerator Vent	CO	70.00	3.36
		VOC	0.03	0.08
V-13	Soda Ash Silo	PM	0.01	0.01
V-14	Lime Silo Vent	PM	0.01	0.01
V-17	FCC Catalyst Silo Vent	PM	0.01	0.01
V-5	SRU No. 1 Incinerator	NO _x	0.40	1.75
		CO	1.37	5.98
		VOC	0.12	0.53
		SO ₂	6.87	21.54
		PM	0.03	0.13
V-16	SRU No. 2 Incinerator	NO _x	0.56	2.45
		CO	13.66	59.82
		VOC	0.20	0.87
		SO ₂	10.96	48.01
		PM	0.04	0.18
V-28	SRU No. 3 Incinerator	NO _x	1.60	7.01
		CO	5.02	21.99
		VOC	0.54	2.38
		SO ₂	28.69	125.64
		PM	0.12	0.52
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 - CAS7)	VOC	5.04	11.04
F-1CRUDE, F-REF_HT, F-2ALKY, F-2CRUDE, F-2REF_HT, F-CRUDE, F-4HT, F-85, F-HCU, F-ALKY_PDA, F-ASPHALT, F-BRINE, F-C4ISOM, F-CASING, F-CAVERN, F-FGR, F-COKE_VOC,	VOC Sub cap for Fugitives (5)	VOC	161.48	707.27

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

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-PMA, F-PSA, F-PUMPSTA, F-RAILLOAD, F-RLE, F- SBULKLD, F-SRU1, F- SRU2, F-SRU3, F-SWS, F-UNIFINER, F-WTNKFRM, F-MSAT, F-WWTP, F-AMINE2, F-ALKY, F-MSATLOAD, FGR-SUMP				
S-001, S-002, S-003, S- 004, S-005, S-006, S- 007, S-008, S-009, S- 010, S-011, S-012, S- 013, S-014, S-015, S- 016, S-017, S-018, S- 019, S-020, S-021, S- 022, S-023, S-024, S- 025, S-026, S-027, S- 028, S-032, S-033, S- 035, S-037, S-038, S- 039, S-040, S-045, S- 046, S-049, S-052, S- 053, S-055, S-056, S-057, S-058, S-059, S- 060, S-063, S-064, S- 065, S-066, S-067, S- 068, S-069, S-070, S- 071, S-072, S-073, S- 074, S-075, S-076, S- 086, S-090, S-137, S- 138, S-139, S-140, S- 141, S-143, S-150, S- 168, S-173, S-174, S- 175, S-176, S-177, S-	Sub cap for Storage Tanks	VOC	131.44	377.93

EMISSION SOURCES - INDIVIDUAL EMISSION RATE LIMITS AND SUBCAPS

AIR CONTAMINANTS DATA

179, S-180, S-183, S-184, S-186, S-187, S-192, S-194, S-195, S-196, S-197, S-198, S-199, S-200, S-202, S-203, S-204, S-209, S-210, S-211, S-212, S-213, S-214, S-215, S-216, S-217, S-218, S-219, S-220, S-221, S-222, S-223, S-224, S-225, S-229				
S-144, S-095, S-031, S-042, S-043	Subcap for HIDL Tanks	VOC	10.36	5.13

EMISSION SOURCES - EMISSIONS CAPS AND INDIVIDUAL EMISSION RATE LIMITS

- (1) Emission point identification - either specific equipment designation or emission point number (EPN) from a plot plan.
- (2) Specific point source names. For fugitive sources, use an 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
CO - carbon monoxide
SO₂ - sulfur dioxide
H₂S - hydrogen sulfide
H₂SO₄ - sulfuric acid
HCl - hydrogen chloride
NH₃ - ammonia
PM - particulate matter, suspended in the atmosphere, including PM₁₀ and PM_{2.5}
PM₁₀ - particulate matter equal to or less than 10 microns in diameter
PM_{2.5} - particulate matter equal to or less than 2.5 microns in diameter
- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period
- (5) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (7) The emission rates listed for the VOC, NO_x, and CO subcaps are included in the total VOC, NO_x, and CO cap for the site. These subcaps were established to establish that the Benzene Concentrate Extraction System project was not subject to PSD review.
- (8) The emission caps have been carried forward from the flexible permit and do not include MSS emissions. The only emission caps that are limiting (lower than the sum of the subcaps and individual emission rate limits for that air contaminant) are those for NO_x.
- (9) FCCU contribution to the ammonia cap.
- (10) Short term emission rates are emissions caps and represent the combined emission rates from flare EPNs FL-1, FL-3, FL-4, and FL-8.

Dated: October 23, 2012