#### Permit Numbers 2937 and PSDTX1023M2

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	n Rates
Follit No. (1)			lbs/hour	TPY (4)
Emission Caps		SO <sub>2</sub>	160.75	702.24
(7)		VOC	1,578.04	817.60
		NO <sub>x</sub>	218.50	833.04
		со	357.18	1,432.27
		PM <sub>10</sub>	45.36	173.04
		H <sub>2</sub> S	2.72	11.91
		HCI	0.21	0.06
		Cl <sub>2</sub>	0.06	0.02
		Benzene	37.20	25.15
		Ammonia	0.17	0.75
MSS Caps (6)		со	350.30	31.97
		NO <sub>x</sub>	71.02	6.88
		VOC	539.33	43.30
		SO <sub>2</sub>	1031.57	38.48
		H <sub>2</sub> S	10.96	0.21
		РМ	0.61	0.23
		PM <sub>10</sub>	0.61	0.23
		PM <sub>2.5</sub>	0.61	0.23
		Ammonia	4.46	0.51
		Exempt Solvents	1.76	0.60
REFFUG	Refinery Fugitives Subcap (5)	VOC	57.03	249.81
		H <sub>2</sub> S	< 0.01	0.02
Various	Tanks Subcap	VOC	198.61	42.15

EP-B-1 B	Boiler - C8 Boiler No. 1	NO <sub>x</sub>	5.90	18.05
	(EP-B-1)	voc	0.91	3.24
		SO <sub>2</sub>	4.39	5.80
		со	14.32	25.53
		РМ	1.26	4.48
		PM <sub>10</sub>	1.26	4.48
		PM <sub>2.5</sub>	1.26	4.48
EP-B-2	Boiler - C8 Boiler No. 2	NO <sub>x</sub>	5.90	18.05
	(EP-B-2)	voc	0.91	3.24
		SO <sub>2</sub>	4.39	5.80
		со	14.32	25.53
		РМ	1.26	4.48
		PM <sub>10</sub>	1.26	4.48
		PM <sub>2.5</sub>	1.26	4.48
B-4	Boiler - C6B Boiler No. 4	NO <sub>x</sub>	2.70	11.83
	(West) (169-B-4)	VOC	0.49	2.13
		SO <sub>2</sub>	2.90	4.70
		СО	7.39	25.26
		РМ	0.67	2.94
		PM <sub>10</sub>	0.67	2.94
		PM <sub>2.5</sub>	0.67	2.94

EP-B-5	Boiler - C8 Boiler No. 5	NO <sub>x</sub>	8.45	31.73
	(EP-B-5)	voc	1.30	5.19
		SO <sub>2</sub>	6.29	10.20
		СО	20.50	89.78
		РМ	1.80	7.17
		PM <sub>10</sub>	1.80	7.17
		PM <sub>2.5</sub>	1.80	7.17
B-5	Boiler - C6B Boiler No. 5	NO <sub>x</sub>	2.70	11.83
	(East) (169-B-5)	VOC	0.49	2.13
		SO <sub>2</sub>	2.90	4.70
		СО	7.39	25.26
		РМ	0.67	2.94
		PM <sub>10</sub>	0.67	2.94
		PM <sub>2.5</sub>	0.67	2.94
QH-125	No. 2 Reformer Heaters	NO <sub>x</sub>	3.60	15.27
		voc	0.55	2.35
		SO <sub>2</sub>	3.31	3.77
		со	7.58	10.62
		РМ	0.77	3.25
		PM <sub>10</sub>	0.77	3.25
		PM <sub>2.5</sub>	0.77	3.25
27-H-1	Heater - C8 BTX Clay	NO <sub>x</sub>	0.68	2.58
	Twr (127-H-1)	voc	0.03	0.12
		SO <sub>2</sub>	0.15	0.21
		СО	0.41	0.78
		РМ	0.04	0.16
		PM <sub>10</sub>	0.04	0.16
		PM <sub>2.5</sub>	0.04	0.16

44-H-1	Heater - C7 GOT Chrg.	NO <sub>x</sub>	4.18	16.10
	(144-H-1)	voc	0.64	2.48
		SO <sub>2</sub>	2.79	3.97
		СО	9.61	14.24
		PM	0.89	3.43
		PM <sub>10</sub>	0.89	3.43
		PM <sub>2.5</sub>	0.89	3.43
37-H-1	Heater - C7 Kero HDS	NO <sub>x</sub>	1.98	8.65
	Chrg. (137-H-1)	VOC	0.11	0.47
		SO <sub>2</sub>	0.46	0.65
		СО	1.06	1.81
		PM	0.15	0.64
		PM <sub>10</sub>	0.15	0.64
		PM <sub>2.5</sub>	0.15	0.64
39-H-1	Heater - C7 No. 4	NO <sub>x</sub>	3.99	17.48
		VOC	0.22	0.94
		SO <sub>2</sub>	0.93	1.51
		СО	3.47	7.61
		РМ	0.30	1.30
		PM <sub>10</sub>	0.30	1.30
		PM <sub>2.5</sub>	0.30	1.30
Q10-H-1	Heater - C6B SMR	NO <sub>x</sub>	8.28	36.26
	Heater (129-H-1) Hydrobon Chrg. (139-H-1)	VOC	1.28	4.88
		SO <sub>2</sub>	7.62	12.36
		СО	18.48	34.09
		РМ	1.76	6.74
		PM <sub>10</sub>	1.76	6.74
		PM <sub>2.5</sub>	1.76	6.74

7-H-2	Heater - C7 Coker	NO <sub>x</sub>	9.10	31.54
	Chrg. (107-H-2)	VOC	0.82	2.83
		SO <sub>2</sub>	3.53	4.54
		СО	13.19	22.87
		РМ	1.13	3.92
		PM <sub>10</sub>	1.13	3.92
		PM <sub>2.5</sub>	1.13	3.92
44-H-2	Heater - C7 GOT Frac. Reb.	NO <sub>x</sub>	6.00	20.97
	(144-H-2)	VOC	0.27	0.94
		SO <sub>2</sub>	1.29	1.51
		СО	3.53	7.61
		РМ	0.37	1.30
		PM <sub>10</sub>	0.37	1.30
		PM <sub>2.5</sub>	0.37	1.30
37-H-3	Heater - C7 Kero HDS Frac.Reb. (137-H-3)	NO <sub>x</sub>	1.37	5.34
	Frac. (137-11-3)	VOC	0.07	0.28
		SO <sub>2</sub>	0.32	0.52
		СО	1.08	1.74
		РМ	0.10	0.38
		PM <sub>10</sub>	0.10	0.38
		PM <sub>2.5</sub>	0.10	0.38
39-H-2	Heater - C7 No. 4 Hydrobon Reb.	NO <sub>x</sub>	3.78	16.57
	(139-H-2)	VOC	0.20	0.89
		SO <sub>2</sub>	0.88	1.43
		СО	3.29	7.21
		РМ	0.28	1.23
		PM <sub>10</sub>	0.28	1.23
		PM <sub>2.5</sub>	0.28	1.23

Emission Sources - Maximum Allowable Emission Rates

Q11-H-3001	Heater - C6B HCU Deb.	NO <sub>x</sub>	3.84	16.82
	Reb. (129-H-3001)	VOC	0.17	0.76
		SO <sub>2</sub>	1.03	1.67
		со	3.15	6.89
		PM	0.24	1.04
		PM <sub>10</sub>	0.24	1.04
		PM <sub>2.5</sub>	0.24	1.04
Q11-H-3002	Heater - C6B HCU	NO <sub>x</sub>	3.84	16.82
	Fract.Reb. (129-H-3002)	VOC	0.17	0.76
		SO <sub>2</sub>	1.03	1.67
		СО	3.15	6.89
		РМ	0.24	1.04
		PM <sub>10</sub>	0.24	1.04
		PM <sub>2.5</sub>	0.24	1.04
Q11-H-301	Heater - C6B HCU Rx	NO <sub>x</sub>	2.25	6.47
	Chrg. (129-H-301)	VOC	0.49	1.40
		SO <sub>2</sub>	2.90	3.09
		со	8.85	12.72
		РМ	0.67	1.93
		PM <sub>10</sub>	0.67	1.93
		PM <sub>2.5</sub>	0.67	1.93
44-H-3	Heater - C7 GOT Stabilizer (144-H-3)	NO <sub>x</sub>	1.74	6.28
	Stabilizer (144-11-3)	VOC	0.14	0.54
		SO <sub>2</sub>	0.62	0.85
		СО	1.81	2.32
		РМ	0.20	0.74
		PM <sub>10</sub>	0.20	0.74
		PM <sub>2.5</sub>	0.20	0.74
Q3-H-3	No. 2 Reformer HDS Heaters	NO <sub>x</sub>	7.30	25.43
		VOC	0.39	1.37

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		SO <sub>2</sub>	2.35	2.83
		со	5.31	7.80
		РМ	0.54	1.89
		PM <sub>10</sub>	0.54	1.89
		PM <sub>2.5</sub>	0.54	1.89
39-H-3A	Heater - C7 No. 4 Plat.	NO <sub>x</sub>	4.09	10.64
	Charge (139-H-3A)	VOC	0.63	1.64
		SO <sub>2</sub>	2.73	2.62
		СО	9.34	14.94
		PM	0.87	2.26
		PM <sub>10</sub>	0.87	2.26
		PM <sub>2.5</sub>	0.87	2.26
39-H-3B	Heater - C7 No. 4 Plat.	NO <sub>x</sub>	2.62	11.47
	IntHtr. (139-H-3B)	VOC	0.40	1.49
		SO <sub>2</sub>	1.74	2.34
		СО	4.62	6.89
		PM	0.56	2.44
		PM <sub>10</sub>	0.56	2.44
		PM <sub>2.5</sub>	0.56	2.44
39-H-3C	C7 No. 4 Plat. IntHtr.	NO <sub>x</sub>	8.90	21.39
	(139-H-3C/D)	VOC	0.48	1.15
		SO <sub>2</sub>	2.07	1.85
		СО	7.10	10.74
		PM	0.66	1.59
		PM <sub>10</sub>	0.66	1.59
		PM <sub>2.5</sub>	0.66	1.59

Emission Sources - Maximum Allowable Emission Rates

8-H-3	Heater - C7 No. 4 Vacuum	NO <sub>x</sub>	3.47	11.99
	Chrg. (108-H-3)	VOC	0.19	0.55
		SO <sub>2</sub>	0.82	1.30
		СО	2.16	4.04
		РМ	0.26	0.76
		PM <sub>10</sub>	0.26	0.76
		PM <sub>2.5</sub>	0.26	0.76
8-H-4	Heater - C7 No. 4 Crude	NO <sub>x</sub>	6.78	19.16
	Chrg. (108-H-4)	VOC	1.04	2.95
		SO <sub>2</sub>	4.52	4.73
		СО	16.86	23.82
		РМ	1.44	4.08
		PM <sub>10</sub>	1.44	4.08
		PM <sub>2.5</sub>	1.44	4.08
Q3-H-4A/B	Heater - C6B No. 2 Ref.	NO <sub>x</sub>	3.99	17.30
	Split. (116-H-4A/B)	VOC	0.78	3.39
		SO <sub>2</sub>	1.04	1.67
		СО	2.91	6.30
		PM	0.30	1.29
		PM <sub>10</sub>	0.30	1.29
		PM <sub>2.5</sub>	0.30	1.29
8-H-5	Heater - C7 No. 4 Vacuum Chrg. (108-H-5)	NO <sub>x</sub>	1.72	7.53
	Clirg. (100-H-5)	VOC	0.37	1.62
		SO <sub>2</sub>	1.60	2.60
		СО	5.99	13.11
		РМ	0.51	2.25
		PM <sub>10</sub>	0.51	2.25
		PM <sub>2.5</sub>	0.51	2.25
8-H-6	Heater - C7 No. 4 Crude Chrg. (108-H-6)	NO <sub>x</sub>	10.01	21.90
	Onig. (100-11-0)	VOC	1.54	4.72

		SO <sub>2</sub>	6.67	7.56
		СО	24.89	38.12
		РМ	2.13	6.53
		PM <sub>10</sub>	2.13	6.53
		PM <sub>2.5</sub>	2.13	6.53
39-H-7	Heater - C7 No. 4	NO <sub>x</sub>	1.27	4.55
	Plat.Stab.Reb. (139-H-7)	VOC	0.19	0.70
		SO <sub>2</sub>	0.84	1.12
		СО	2.94	5.30
		РМ	0.27	0.97
		PM <sub>10</sub>	0.27	0.97
		PM <sub>2.5</sub>	0.27	0.97
H-TK-54	Heater - Tank TK-54	NO <sub>x</sub>	0.40	0.86
	Heater	VOC	0.02	0.05
		SO <sub>2</sub>	0.05	0.06
		СО	0.32	0.73
		РМ	0.03	0.06
		PM <sub>10</sub>	0.03	0.06
		PM <sub>2.5</sub>	0.03	0.06
H-TK-70	Heater - Tank TK-70 Heater	NO <sub>x</sub>	0.40	0.86
		VOC	0.02	0.05
		SO <sub>2</sub>	0.05	0.06
		СО	0.32	0.73
		РМ	0.03	0.06
		PM <sub>10</sub>	0.03	0.06
		PM <sub>2.5</sub>	0.03	0.06
QL-10	Heater - C6B No. 4 Plat.	NO <sub>x</sub>	2.09	5.8
	Spltter (154-H-10)	VOC	1.49	5.81
		SO <sub>2</sub>	2.18	2.24
		СО	6.10	8.45
		PM	0.62	1.73

		PM <sub>10</sub>	0.62	1.73
		PM <sub>2.5</sub>	0.62	1.73
148H-01-02	ULSD Heaters	NO <sub>x</sub>	4.13	17.48
		VOC	0.64	2.69
		SO <sub>2</sub>	2.75	4.31
		со	7.90	19.90
		РМ	0.88	3.72
		PM <sub>10</sub>	0.88	3.72
		PM <sub>2.5</sub>	0.88	3.72
SMR2	SMR2 Heater	NO <sub>x</sub>	23.59	103.32
		VOC	3.63	15.92
		SO <sub>2</sub>	15.71	25.49
		со	43.72	104.71
		PM	5.02	22.00
		PM <sub>10</sub>	5.02	22.00
		PM <sub>2.5</sub>	5.02	22.00
83-CT1	Cooling Tower - Complex 8	voc	2.52	7.36
		РМ	3.02	12.24
		PM <sub>10</sub>	3.02	12.24
		PM <sub>2.5</sub>	3.02	12.24
88-CT7	Cooling Tower - Complex 7	VOC	2.53	7.66
		РМ	4.78	19.05
		PM <sub>10</sub>	4.78	19.05
		PM <sub>2.5</sub>	4.78	19.05
Q-CT4	Cooling Tower - Hydrocracker	VOC	0.67	2.76
	пушостаскег	РМ	1.10	4.46
		PM <sub>10</sub>	1.10	4.46
		PM <sub>2.5</sub>	1.10	4.46
Q-CT5	Cooling Tower - No. 2 Reformer	VOC	0.46	3.31
	No. 2 Rejoinel	РМ	0.77	3.13
		PM <sub>10</sub>	0.77	3.13

		PM <sub>2.5</sub>	0.77	3.13
Q-CT8	Cooling Tower - BTX	VOC	0.50	1.47
		РМ	0.80	3.26
		PM <sub>10</sub>	0.80	3.26
		PM <sub>2.5</sub>	0.80	3.26
ASPH-RCLDG	Asphalt	voc	0.31	0.01
ASPH-TLDG	Asphalt	voc	0.31	0.01
LATEX-TLDG	Latex	voc	0.31	0.01
RC-RACK1	Railcar Loading Rack 1	voc	0.37	0.01
SULF-RCLDG	Sulfur	voc	0.02	0.01
SULF-TLDG	Sulfur	voc	0.02	0.01
MARINE-LDG	Marine Loading	VOC	478.01	45.79
PD-6	Loading - Dock 6	voc	77.50	7.04
TO-3	Dock Combustor TO-3	NO <sub>x</sub>	15.68	18.29
		voc	69.90	23.53
		SO <sub>2</sub>	0.06	0.23
		со	11.18	9.75
		PM	0.75	0.91
		PM <sub>10</sub>	0.75	0.91
		PM <sub>2.5</sub>	0.75	0.91
PMA-LOAD	Loading - PMA Asphalt	VOC	0.07	0.16
TT-RACK1	Loading - Truck Rack	VOC	4.33	2.01
TO-2	Truck Rack Thermal	NO <sub>x</sub>	3.25	8.83
	Oxidizer	VOC	9.69	7.88
		SO <sub>2</sub>	0.01	0.04
		СО	1.74	4.71
		РМ	0.16	0.44
		PM <sub>10</sub>	0.16	0.44
		PM <sub>2.5</sub>	0.16	0.44

Flare-1, HCU-	Flares Subcap	NO <sub>x</sub>	4.48	19.64
FL1, REF2-FL1, WP-		VOC	26.88	117.75
FLARE1, SRU1-FLARE,		SO <sub>2</sub>	1.62	7.09
SRU2-FLARE, SWS-FLARE		со	23.17	101.47
SRU1-INCIN,	SRUs Subcap	NO <sub>x</sub>	5.35	23.44
SRU2-INCIN		VOC	0.29	1.26
		SO <sub>2</sub>	66.77	292.47
		СО	4.41	19.30
		РМ	0.40	1.75
		PM <sub>10</sub>	0.40	1.75
		PM <sub>2.5</sub>	0.40	1.75
FU-1	DCU Coke Handling Fugitives	РМ	0.62	2.74
		PM <sub>10</sub>	0.30	1.29
		PM <sub>2.5</sub>	0.04	0.20
CSV1	COKE STREAM VENT 1	VOC	55.00	-
		H₂S	5.43	-
		РМ	2.95	-
		PM <sub>10</sub>	1.98	-
		PM <sub>2.5</sub>	1.98	-
		Benzene	0.65	-
CSV2	COKE STREAM VENT 2	VOC	55.00	-
		H <sub>2</sub> S	5.43	-
		РМ	2.95	-
		PM <sub>10</sub>	1.98	-
		PM <sub>2.5</sub>	1.98	-
		Benzene	0.65	-
CVS1/CSV2	COKE STREAM VENTS 1/2 COMBINED CAP	VOC	-	20.08
	COMBINED CAF	H <sub>2</sub> S	-	1.98
		РМ	-	1.08
		PM <sub>10</sub>	-	0.72
		PM <sub>2.5</sub>	-	0.72

		Benzene	-	0.24
2REGENVENT	2REGENVENT	VOC	0.01	0.01
4REGENVENT	4REGENVENT	VOC	0.02	0.07
91-D-1	Slurry Tank (Sludge Conc)	voc	0.01	0.01
91-D-2	Make-Up Tk (Sludge Conc)	voc	0.01	0.01
91-D-3	Charge Tank (Sludge Conc)	voc	0.01	0.01
LS-1	WWTP Lift Station (Covered)	VOC	0.08	0.36
SUMP-1	WWTP Sump	VOC	0.01	0.01
WWS-EP	EP CPI Separator (covered)	VOC	0.13	0.55
91-D-4	WP Sludge Concentration Tank	voc	0.06	0.28
91-D-5	WP Sludge Concentration Tank	voc	0.06	0.28
SUMP-2	WWTP DAF Float & Bottoms Collection Pump sump	voc	0.01	0.01
SUMP-3	EP CPI Inlet Sump and Excess Inflow Pump	voc	0.01	0.01
90-TK-61	Sludge Holding Tank	VOC	0.01	0.01
90-TK-65	DAF Tank	VOC	1.09	4.77
90-TK-66	Bioreactor Tank	VOC	2.14	9.37
90-TK-67	Bioreactor Tank	VOC	1.94	8.51
90-TK-68	Clarifier Tank	VOC	0.01	0.03
90-TK-69	Clarifier Tank	voc	0.01	0.03
90-TK-85	DAF Tank	voc	1.09	4.77
90-TK-64	WWTP Biosludge Thickener	voc	0.01	0.01
90-TK-78	WWTP Clarified Activated Biosludge Skimmings Tank	voc	0.01	0.01
90-TK-60	Aerobic digester	VOC	0.34	1.49
T-109	Tank 109	voc	0.01	0.01
QP-SUMP1	QP Oily Water System Collection Sump & Pump Out System	voc	0.01	0.01
SUMP-4	WP Oily Water System Collection Sump and Pump Out System	VOC	0.01	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) Exempt Solvent - Those carbon compounds or mixtures of carbon compounds used as solvents which have been excluded from the definition of volatile organic compound.

- 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

VOC

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

CO - carbon monoxide
H<sub>2</sub>S - hydrogen sulfide
HCI - hydrogen chloride

 $\begin{array}{ccc} NH_3 & & - \ ammonia \\ CI_2 & & - \ chlorine \end{array}$ 

(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) The annual limits (TPY) apply to the period from August 1, 2010 through July 31, 2011 and for each rolling 12 month period thereafter. The maintenance, startup, and shutdown (MSS) emission caps are independent of the routine operating emission caps. Authorized emissions of a pollutant from facilities in this permit are the sum of the emission cap and the MSS emission cap. The emission points and activities authorized under these emission caps are identified in Attachment 4 to this permit.
- (7) These emission caps have been carried forward from the flexible permit and do not include MSS emissions. The only emission cap that is limiting (lower than the sum of the subcaps and individual emission rate limits for that air contaminant) is the hourly cap for CO.

Date: January 24, 2022

#### ATTACHMENT 1

#### Permit Numbers 2937 and PSDTX1023M2

# Contaminants, Emission Point Numbers, and Source Names

This table lists the facility identification numbers, emission point numbers, source names, and emission cap contaminants emitted for all emission points on the applicant's property covered by this permit.

Facility	Emission Point	Source Name (2)	Emission Cap Contaminants Emitted (3)							
Identification Number	Number (1)		SO <sub>2</sub>	VOC	NO <sub>x</sub>	СО	РМ	H <sub>2</sub> S	NH <sub>3</sub>	other
B-4A	B-4	Boiler - C6B Boiler No. 4 (West) (169-B-4)	X	Х	X	Х	Х			
		Boiler - C6B Boiler No. 5 (East) (169-								
B-5A	B-5	B-5)	X	X	X	X	X			
B-1	EP-B-1	Boiler - C8 Boiler No. 1 (EP-B-1)	Χ	Χ	Χ	Χ	Χ			
B-2	EP-B-2	Boiler - C8 Boiler No. 2 (EP-B-2)	Χ	Χ	Χ	Χ	Χ			
B-5	EP-B-5	COMPLEX 8 BOILER No. 5	Χ	Χ	Χ	Χ	Χ			
CT1	83-CT1	Cooling Tower - Complex 8		Χ			Χ			
CT7	88-CT7	Cooling Tower - Complex 7		Χ			Χ			
CT4	Q-CT4	Cooling Tower - Hydrocracker		Χ			Χ			
CT5	Q-CT5	Cooling Tower - No. 2 Reformer		Χ			Χ			
СТ8	Q-CT8	Cooling Tower - BTX		Χ			Χ			
BLR-HSE	BLRHSE-FE	BOILER HOUSE FUGITIVES		Х				Χ		
BTX1	BTX1-FE	SULFOLANE BTX. UNIT FUGITIVES		Х		•			,	В
COKER1	COKER1-FE	DELAYED COKER UNIT FUGITIVES		Х				Χ	Χ	В
00114014404	00111/40455	No. 4 CRUDE & VACUUM UNIT		.,					.,	_
CRU4&VAC4	CRUVAC4-FE	FUGITIVES		X				X	X	<u>B</u>
DEOCT	DEOCT-FE	No. 4 PLAT. SPLT. FUGITIVES		X						В
DIST1	DIST1-FE	KEROSENE HDS FUGITIVES		Χ				Χ	Χ	В
DCOK-11	DOCK11-FE	MARINE LOADING (DOCK 11) FUGITIVES		Χ						В
DOCK-3	DOCK3-FE	MARINE LOADING (DOCK 3) FUGITIVES		Χ						В
DOCK-4	DOCK4-FE	MARINE LOADING (DOCK 4) FUGITIVES		Χ						В
DOCK-6	DOCK6-FE	MARINE LOADING (DOCK 6) FUGITIVES		Χ						
DOCK-7	DOCK7-FE	MARINE LOADING (DOCK 7) FUGITIVES		X						В
EP-FLR-CVS	EP-FLR-FE	COMPLEX 8 FLARE FUGITIVES		X			_	Χ	,	В
FCCU1	FCCU1-FE	F.C.C.U. FUGITIVES		X				X	Χ	В
GOT1	GOT1-FE	DIESEL HDS FUGITIVES		X				X	X	В
9011	GOIT-FE	HYDROCRACKER UNIT		^				^	^	ם
HCU	HCU-FE	FUGITIVES		Х				Х	Х	В
HCUFLR-CVS	HCU-FLR-FE	HYDROCRACKER FLARE HEADER FUGITIVES		X				Х		
KERO1	KERO1-FE	KEROSENE H.D.S. FUGITIVES		Χ				Χ	Χ	В
LEF1	LEF1-FE	No. 1 L.E.F. @ S.S. (XYLENE TOWER FUGITIVES	•	Х	•	•	•	•	,	
LEU1	LEU1-FE	No. 1 L.E.U. FUGITIVES		X				Х	Χ	В
LEU2	LEU2-FE	No. 2 L.E.U. FUGITIVES		X				X	X	В
LLUZ	LLUZ-I'L	INO. 2 L.L.O. I OOIIIVLO		^				^	^	

MEROX-WP	MEROXWP-FE	F.C.C. GASOLINE MERO <sub>X</sub> FUGITIVES		Х				Х		
NEWBZ-FE	NEWBZ-FE	BENZENE SWS FUGITIVES		Χ				Χ	Χ	В
NEWSWS-FE	NEWSWS-FE	SOUR WATER STRIPPER FUGITIVES	•	Х	·		·	Х	Х	В
NONENE1	NONENE1-FE	NONENE UNIT FUGITIVES		Χ						
PSA-FE	PSA-FE	PRESSURE SWING ABSORBER		Χ						В
		SULFOLANE & BTX. UNIT								
Q-BTX	QBTX-FE	FUGITIVES		Χ						В
Q-NAPHDS2	QHDS2-FE	No. 2 NAPHTHA H.D.S. FUGITIVES		Χ				Χ		
Q-NAP SPLT	QNAPSPL-FE	No. 2 NAPHTHA (No. 2 REFORMER). SPLITTER FUGITIVES		Х				X		
Q-REF2	QREF2-FE	No. 2 REFORMER FUGITIVES		Χ						
Q-SULFO	QSULFO-FE	SULFOCANE FUGITIVES		Χ						В
RAFF1	RAFF1-FE	No. 1 RAFFINATE SPLITTER		Χ						
RAFF2	RAFF2-FE	No. 2 RAFFINATE SPLITTER		Χ						
REF2FL-CVS	REF2-FL-FE	No. 2 REFORMER FLARE HEADER		Χ				Χ		В
REF4	REF4-FE	No. 4 HYDROBON & PLATFORMER FUGITIVES HYDROGEN PRODUCTION		Χ				Х	X	В
SMR	SMR-FE	(S.M.R.) FUGITIVES		Χ				Χ	Х	В
SRU1	SRU1-FE	SRU No. 1FUGITIVES		X				X	X	 B
SUR2-FE	SRU2-FE	SRU No. 2 FUGITIVES		X				X	X	 B
SULFO1	SULFO1-FE	SULFOLANE FUGITIVES		X						 B
SWS1	SWS1-FE	S.W.S. UNIT FUGITIVES		X				X	Х	 B
SWS2-FE	SWS2-FE	BENZENE S.W.S. FUGITIVES		X				X	X	 B
TKFM-EPN	TKFMEPN-FE	COMPLEX 8 NORTH TANK FARM FUGITIVES		Х						В
		COMPLEX 8 SOUTH TANK FARM								
TKFM-EPS	TKFMEPS-FE	FUGITIVES		Х						В
TKFM-QPN	TKFMQPN-FE	COMPLEX 6 NORTH TANK FARM FUGITIVES		Χ						В
		COMPLEX 7 TANK FARM								
TKFM-WP	TKFMWP-FE	FUGITIVES		Х						В
TRUCKRK	TRUCKRK-FE	TRUCK LOADING RACK FUGITIVES		Χ						
WP-FLR-CVS	WP-FLR-FE	COMPLEX 7 FLARE FUGITIVES		Χ				Χ		
H-1BTX1	27-H-1	Heater - C8 BTX Clay Twr (127-H-1)		Χ	Χ	Χ	Χ			
	07.11.4	Heater - C7 Kero HDS Chrg. (137-H-			.,					
H-1KERO1	37-H-1	1)	X	X	X	X	X			
H-2KERO1	37-H-3	Heater - C7 Kero HDS Frac. Reb. (137-H-3)	Χ	Х	Х	Х	Х			
H-1REF4	39-H-1	Heater - C7 No. 4	X	X	X	X	X			
III IIILI 4	33111	Heater - C7 Kero HDS Frac. Reb. (137-H-3)								
H-2REF4	39-H-2	(20, 110)	Χ	Χ	Χ	Χ	Χ			
		Heater - C7 No. 4 Plat. Charge (139-	-							•
H-3REF4A	39-H-3A	H-3A) Heater - C7 No. 4 Plat. IntHtr. (139-H-	X -	Χ	Χ	Χ	Χ			
H-3REF4B	39-H-3B	3B)	Χ	Х	Х	Х	Х			
Project Number: 32										

H-3REF4C	39-H-3C	C7 No. 4 Plat. IntHtr. (139-H-3C/D)	Χ	Χ	Χ	Χ	Χ			
		Heater - C7 No. 4 Plat. Stab. Reb.								
H-7REF4	39-H-7	(139-H-7)	Х	Χ	Χ	X	Χ			
H-1GOT1	44-H-1	Heater - C7 GOT Chrg. (144-H-1)	X	X	X	X	X			
11 10011	77 11 2	Heater - C7 GOT Frac. Reb. (144-H-								
H-2GOT1	44-H-2	2)	Χ	Χ	Χ	Χ	Χ			
		Heater - C7 GOT Stabilizer (144-H-								
H-3GOT1	44-H-3	3)	Χ	Χ	Χ	Χ	Χ			
H-2COKE1	7-H-2	Heater - C7 Coker Chrg. (107-H-2)	Χ	Χ	Χ	Χ	Χ			
		Heater - C7 No. 4 Vacuum Chrg.								
H-3VAC4	8-H-3	(108-H-3)	Χ	X	X	Х	Х			
		Heater - C7 No. 4 Crude Chrg. (108-		.,	.,		.,			
H-4CRU4	8-H-4	H-4)	X	Х	X	X	X			
LI EVACA	0 11 5	Heater - C7 No. 4 Vacuum Chrg. (108-H-5)	~	V	V	~	V			
H-5VAC4	8-H-5	Heater - C7 No. 4 Crude Chrg. (108-	Χ	Х	X	Х	Х			
H-6CRU4	8-H-6	H-6)	Χ	Χ	Х	Х	Χ			
H-TK-54	H-TK-54	TANK 54 HEATER	X	X	X	X	X			
H-TK-70	H-TK-70	TANK 70 HEATER								
11 110 70	11 110 70	Heater - C6B No. 2 Ref. Split. (116-								
H-4QNAPSPL	O3-H-4A/B	H-4A/B)	Χ	Χ	Χ	Χ	Χ			
H-3HDS2A	Q3-H-3	No. 2 Reformer HDS Heaters	Х	Х	Х	Х	Х	·		
H-3HDS2B	Q3-H-3	No. 2 Reformer HDS Heaters	Х	X	X	X	X	•		
H-3HDS2C	Q3-H-3	No. 2 Reformer HDS Heaters	X	X	X	X	X	<del>.</del>		
11 0110020	Q0110	Htr-C6B SMR Htr (129-H-1)								
H-1SMR	Q10-H-1	Hydrobon Chrg. (139-H-1)	Χ	Χ	Χ	Χ	Χ			
		Heater - C6B HCU Deb. Reb. (129-H-								
H-3001HCU	Q11-H-3001	3001)	Χ	Χ	Χ	Χ	Χ			
		Heater - C6B HCU Fract. Reb. (129-								
H-3002HCU	Q11-H-3002	H-3002)	Х	X	Х	X	X			
11 20111011	011 11 001	Heater - C6B HCU Rx Chrg. (129-H-	V	V	V	<b>V</b>	V			
H-301HCU	Q11-H-301	301)	X	X	X	X	X			
H-125QREF2A		No. 2 Reformer Heaters	Χ	Х	X	Х	Х			
H-125QREF2B	QH-125	No. 2 Reformer Heaters	Χ	X	X	X	Х	1		
H-	OLI 125	No. 2 Defermer Heaters		V		\ <u></u>	V			
125QREF2C	QH-125	No. 2 Reformer Heaters  Heater - C6B No. 4 Plat. Splitter	Х	Х	X	X	X			
L-10QHDA	QL-10	(154-H-10)	Х	Х	Х	X	Х			
SRU1-INCIN	SRU1-INCIN	SRU No. 1 INCINERATOR	X	X	X	X	X	X		
SRU2-INCIN	SRU2-INCIN	SRU No. 2 INCINERATOR	Х	X	X	X	X	X	<del></del>	
SINOZ-INCIN	SINUZ-IINCIIN	ASPHALT & LATEX RAILCAR								
ASPH-RCLDG	ASPH-RCLDG	LOADING		Χ						
ASPH-TLDG	ASPH-TLDG	ASPHALT TRUCK LOADING		Х						
		MARINE LOADING (DOCK 6)		-, \						
DOCK-6	PD-6	FUGITIVES		Χ						
LATEX-TLDG	LATEX-TLDG	LATEX TRUCK LOADING	•	Х	·			·		
MARINE-LDG	MARINE-LDG	MARINE LOADING	•	Х						В
RC-RACK1	RC-RACK1	RAILCAR LOADING		X						
SULF-RCLDG	SULF-RCLDG	SULFUR RAILCAR LOADING		X						
SULF-TLDG	SULF-TLDG	SULFUR TRUCK LOADING		X						
JULF-1LDG	JULF-ILDU	JULFUN TRUCK LUADING		^						

REF2-V1 2REGENVENT No. 2 REFORMER REGEN VENT X C REF4-V4 4REGENVENT No. 4 PLATFORMER REGEN VENT X C SWS1-T3 SOUR WATER SURGE TANK X   C SWS1-T3 SOUR WATER SURGE TANK   X   C F1.02 TO-2 Tank 102 F1.03 TO-2 Tank 102 F1.04 TO-2 Tank 103 F1.13 TANK 113 X F1.14 TK-114 TANK 114 X F1.14 TK-114 TANK 114 X F1.12 TK-122 TK-122 TANK 122 X F1.128 TK-128 TANK 128 X B F1.38 TO-2 TANK 128 X B F1.38 TO-2 TANK 128 X B F1.38 TO-2 TANK 201 F1.00 TANK 201 F1.00 TK-210 TANK 201 F1.01 TK-210 TANK 210 X B F1.01 TK-211 TANK 211 X F1.01 TK-212 TANK 212 X F1.01 TK-212 TANK 212 X F1.01 TK-212 TANK 213 X F1.01 TK-213 TANK 213 X F1.01 TK-310 TANK 310 X F1.01 TK-310 TANK 311 X F1.01 TK-312 TANK 312 X F1.01 TK-312 TANK 312 X F1.01 TK-312 TANK 312 X F1.01 TK-313 TANK 314 X F1.01 TANK 315 X F1.01 TK-314 TANK 315 X F1.01 TK-315 TANK 316 X F1.01 TK-316 TANK 317 X F1.01 TK-317 TANK 318 X F1.01 TK-318 TANK 319 X F1.01 TK-310 TANK 310 X F1.01 TANK 311 X F1.01 TANK 311 X F1.01 TANK 311 X F1.01 TANK 312 X F1.01 TK-312 TANK 312 X F1.01 TK-313 TANK 314 X F1.01 TANK 315 X F1.01 TANK 315 X F1.01 TANK 316 X F1.01 TANK 317 X F1.01 TANK 318 X F1.01 TANK 319 X F1.01 TANK 319 X F1.01 TANK 310 X F1.01 TANK 311 X F1.01 TANK 311 X F1.01 TANK 312 X F1.01 TANK 312 X F1.01 TANK 312 X F1.01 TANK 314 X F1.01 TANK 315 X F1.01 TANK 315 X F1.01 TANK 310	TO2	TO-2	THERMAL OXIDIZER	Χ	Χ	Χ	Х	Χ			В
THE	TO 0	TO 0									
REG+CO+ES 2		•		Х		Х	X	X	-		
Part		TT-RACK1	TRUCK LOADING RACK		X						В
REF4-V4	REG+CO+ES P	12-COSTK	F.C.C.U. & CO BOILER & E.S.P.	Χ	Х	X	Χ	X			Α
REF4-V4	REF2-V1	2REGENVENT	No. 2 REFORMER REGEN VENT								С
SWS1-T3	REF4-V4				_	·	·	·	•	•	
F-102 TO-2 Tank 102 F-108 TO-2 Tank 108 F-113 TK-113 TANK 113 X F-114 TK-114 TANK 114 X F-114 TK-114 TANK 114 X F-122 TK-122 TANK 122 X F-128 TK-128 TANK 128 X B F-138 TO-2 TANK 138 X F-129 T-20 Tank 20 F-20 T-2 Tank 20 F-20 TK-202 TANK 202 X B F-210 TK-210 TANK 201 F-202 TK-202 TANK 202 X B F-210 TK-210 TANK 210 X F-211 TK-211 TANK 211 X F-212 TK-212 TANK 212 X F-213 TK-213 TANK 212 X F-213 TK-213 TANK 213 X F-22 TK-22 TANK 22 X B F-310 TK-310 TANK 310 X F-311 TK-311 TANK 311 X F-312 TK-312 TANK 311 X F-312 TK-312 TANK 312 X F-332 TK-332 TANK 332 X F-3332 TK-332 TANK 332 X F-334 TK-354 TANK 354 X F-500 TK-500 TANK 500 X F-9 TK-9 TANK 95 X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X X X B F-P-FLARE1 COMPLEX 8 FLARE X X X X X X X X X X X X X X X X X X X	SWS1-T3		I								
F-108 TO-2 Tank 108 F-113 TK-113 TANK 113 X F-112 TK-114 TANK 114 X F-122 TK-122 TANK 122 X F-128 TK-128 TANK 128 X B F-128 TK-128 TANK 138 X F-2 T-2 Tank 2 F-201 TO-2 Tank 201 F-202 TK-202 TANK 202 X B F-210 TK-210 TANK 210 X F-211 TK-211 TANK 211 X F-211 TK-211 TANK 211 X F-212 TK-212 TANK 212 X F-213 TK-213 TANK 212 X F-213 TK-213 TANK 213 X F-22 TK-22 TANK 213 X F-213 TK-213 TANK 213 X F-22 TK-22 TANK 214 X F-213 TK-213 TANK 213 X F-22 TK-22 TANK 22 X B F-210 TK-310 TANK 310 X F-311 TK-311 TANK 311 X F-312 TK-312 TANK 311 X F-312 TK-312 TANK 312 X F-325 TK-325 TANK 322 X F-332 TK-332 TANK 332 X F-354 TK-354 TANK 354 X F-500 TK-500 TANK 500 X F-9 TK-9 TANK 9 X B F-P-FLARE1 COMPLEX 8 FLARE X F-P-BBMER-V1 EP-FLARE1 COMPLEX	T-102			ı	I	ı		1			
T-114 TK-114 TANK 114 X T-122 TK-122 TANK 122 X T-128 TK-128 TANK 128 X B T-138 TO-2 TANK 138 X T-2 T-2 TANK 20 T-2 TANK 201 T-201 TO-2 TANK 201 T-202 TK-202 TANK 202 X B T-210 TK-210 TANK 210 T-211 TK-211 TANK 211 X T-211 TK-211 TANK 211 X T-212 TK-212 TANK 212 X T-213 TK-213 TANK 212 X T-213 TK-213 TANK 213 X T-22 TK-22 TANK 22 X B T-310 TK-310 TANK 310 X T-311 TK-311 TANK 310 X T-311 TK-311 TANK 311 X T-312 TK-312 TANK 312 X T-312 TK-312 TANK 312 X T-325 TK-325 TANK 325 X T-332 TK-332 TANK 332 X T-332 TK-332 TANK 332 X T-354 TK-354 TANK 354 X T-500 TK-500 TANK 500 X T-9 TK-9 TANK 9 X B BALKY-V1 EP-FLARE1 COMPLEX 8 FLARE X T-100 TARE 1ARE 1ARE X T-100 TARE 1ARE 1ARE 1ARE X T-100 TARE 1ARE	T-108	TO-2	Tank 108								
T-114 TK-114 TANK 114 X T-122 TK-122 TANK 122 X T-128 TK-128 TANK 128 X B T-138 TO-2 TANK 138 X T-2 T-2 TANK 20 T-2 TANK 201 T-201 TO-2 TANK 201 T-202 TK-202 TANK 202 X B T-210 TK-210 TANK 210 T-211 TK-211 TANK 211 X T-211 TK-211 TANK 211 X T-212 TK-212 TANK 212 X T-213 TK-213 TANK 212 X T-213 TK-213 TANK 213 X T-22 TK-22 TANK 22 X B T-310 TK-310 TANK 310 X T-311 TK-311 TANK 310 X T-311 TK-311 TANK 311 X T-312 TK-312 TANK 312 X T-312 TK-312 TANK 312 X T-325 TK-325 TANK 325 X T-332 TK-332 TANK 332 X T-332 TK-332 TANK 332 X T-354 TK-354 TANK 354 X T-500 TK-500 TANK 500 X T-9 TK-9 TANK 9 X B BALKY-V1 EP-FLARE1 COMPLEX 8 FLARE X T-100 TARE 1ARE 1ARE X T-100 TARE 1ARE 1ARE 1ARE X T-100 TARE 1ARE	T-113	TK-113	TANK 113		Х						
F-122 TK-122 TANK 122 X F-128 TK-128 TANK 128 X F-138 TO-2 TANK 138 X F-2 T-2 Tank 2 F-201 TO-2 Tank 201 F-202 TK-202 TANK 202 X B F-210 TK-210 TANK 210 X F-211 TK-211 TANK 211 X F-212 TK-212 TANK 212 X F-213 TK-213 TANK 213 X F-22 TK-22 TANK 222 X B F-310 TK-310 TANK 211 X F-22 TK-22 TANK 212 X F-311 TK-311 TANK 311 X F-312 TK-310 TANK 310 X F-311 TK-310 TANK 310 X F-312 TK-312 TANK 311 X F-312 TK-312 TANK 312 X F-325 TK-325 TANK 325 X F-332 TK-332 TANK 325 X F-332 TK-332 TANK 354 X F-500 TANK 500 X F-9 TK-9 TANK 500 X F-9 TK-9 TANK 9 X B BALKY-V1 EP-FLARE1 COMPLEX 8 FLARE X REF2-FLARE REF2-FL1 No. 2 REFORMER AREA FLARE X REF2-FLARE REF2-FL1 No. 2 REFORMER AREA FLARE X REF2-FLARE SRU2-FLARE SRU No. 1 FLARE X REF2-FLARE SRU2-FLARE SRU No. 2 FLARE X X X X X X S SRU2-FLARE SRU2-FLARE SRU No. 2 REFORMER AREA FLARE X X X X X X S SRU2-FLARE SRU2-FLARE SRU No. 2 REFORMER AREA FLARE X X X X X X S SRU2-FLARE SRU2-FLARE SRU No. 2 REFORMER AREA FLARE X X X X X X S SRU2-FLARE SRU2-FLARE SRU No. 2 REFORMER AREA FLARE X X X X X X S SRU2-FLARE SRU2-FLARE SRU No. 2 FLARE X X X X X X X X S SRU2-FLARE SWS-FLARE SRU No. 2 FLARE X X X X X X X S SRU2-FLARE SWS-FLARE SRU No. 2 FLARE X X X X X X X S SRU2-FLARE SWS-FLARE SRU No. 2 FLARE X X X X X X X X S SRU2-FLARE SWS-FLARE SRU No. 2 FLARE X X X X X X X X S SRU3-V1 WP-FLARE1 COMPLEX 7 FLARE X X X X X X X S SWS-V1 WP-FLARE1 COMPLEX 7 FLARE X X X X X X X S SWS-V1 WP-FLARE1 COMPLEX 7 FLARE X X X X X X X X S SWS-V1 WP-FLARE1 COMPLEX 7 FLARE X X X X X X X X X X X X X X X X X X X	T-114										
T-128	T-122										
T-138	T-128										В
F-2 T-2 Tank 2 F-201 TO-2 Tank 201 F-202 TK-202 TANK 202	T-138										
T-201	T-2										
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SRU2-FLARE         SRU No. 2 FLARE         X <td></td> <td>В</td>											В
SWS-FLARE         SWS-FLARE         SOUR H2O STRIP FLARE         X	SRU1-FLARE	•									
WP-FLARE         WP-FLARE1         COMPLEX 7 FLARE         X <th< td=""><td>SRU2-FLARE</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>	SRU2-FLARE										
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NH3REF	NH3REF-FE	AMMONIA FUGITIVES					Χ	
V116T202	Q3-H-4	VENT/HEATER	)	Χ				В
		COKE DRUM & CLAM SHELL						
FU-1	FU-1	FUGITIVES				Χ		
V154T010	QL-10	VENT/HEADER		Χ				В

- (1) Emission point identification - either specific equipment designation or emission point number from plot plan.
- Specific point source name. For fugitive sources use area name or fugitive source name. (2)
- (3) sulfur dioxide

В

- volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
- SO<sub>2</sub> -VOC -NO<sub>x</sub> total oxides of nitrogen
- CO carbon monoxide
- РΜ total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as represented  $PM_{10}$
- particulate matter equal to or less than 2.5 microns in diameter  $PM_{2.5}$
- $NH_3$ ammonia hydrogen sulfide  $H_2S$ Α sulfuric acid benzene
- С chlorine and hydrogen chloride

Date: <u>January 24, 2022</u>