

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Numbers 9458 and PSDTX675M3

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.

AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY**
9	Glycol Heater	NO _x	0.02	0.09
		CO	0.02	0.07
		VOC	0.01	0.01
		SO ₂	0.01	0.01
		PM	0.01	0.01
		H ₂ S	0.01	0.01
10	Amine Reboiler	NO _x	0.74	3.22
		CO	0.62	2.71
		VOC	0.04	0.18
		SO ₂	0.01	0.02
		PM	0.06	0.25
		H ₂ S	0.01	0.01
10	Incinerator	NO _x	0.34	1.50
		CO	0.29	1.26
		VOC	0.02	0.08
		SO ₂	0.01	0.01
		PM	0.03	0.11
		H ₂ S	0.01	0.01
10	Amine Regenerator	VOC	0.01	0.06
		SO ₂	42.13	184.51
		H ₂ S	1.11	4.85
FU-SWN	Fugitives (4)	VOC	0.09	0.39
		H ₂ S	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
12	Flare	NO _x	0.03	0.11
		CO	0.05	0.23
		VOC	0.01	0.02
		SO ₂	0.01	0.01
		PM	0.01	0.01
		H ₂ S	0.01	0.01
15	Boiler	CO	0.04	0.16
		SO ₂	0.01	0.01
		NO _x	0.04	0.19
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
21	Tank 513	VOC	1.11	0.89
		H ₂ S	0.01	0.01
21a	Tank 726	VOC	1.11	0.51
		H ₂ S	0.01	0.01
23	Tank 507	VOC	1.08	0.58
		H ₂ S	0.01	0.01
24	Tank 508	VOC	0.95	0.57
		H ₂ S	0.01	0.01
26	Tank 510	VOC	1.11	0.55
		H ₂ S	0.01	0.01
27	Tank 503	VOC	1.11	0.66
		H ₂ S	0.01	0.01
28	Tank 504	VOC	1.11	0.66
		H ₂ S	0.01	0.01
29	Tank 501	VOC	1.11	0.53
		H ₂ S	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
30	Tank 502	VOC	1.11	0.53
		H ₂ S	0.01	0.01
31	Tank 499	VOC	1.11	0.53
		H ₂ S	0.01	0.01
32	Tank 500	VOC	1.11	0.53
		H ₂ S	0.01	0.01
33	Tank 497	VOC	1.11	0.69
		H ₂ S	0.01	0.01
34	Tank 498	VOC	1.11	0.51
		H ₂ S	0.01	0.01
35	Tank 763	VOC	1.11	0.42
		H ₂ S	0.01	0.01
36	Tank 764	VOC	1.11	0.42
		H ₂ S	0.01	0.01
37	Heater	CO	0.04	0.05
		SO ₂	0.03	0.03
		NO _x	0.05	0.05
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
38	Heater	CO	0.04	0.05
		SO ₂	0.03	0.03
		NO _x	0.05	0.05
		PM	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
40	Heater	VOC	0.01	0.01
		H ₂ S	0.01	0.01
		CO	0.04	0.05
		SO ₂	0.03	0.03
		NO _x	0.05	0.05
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
		CO	0.01	0.01
		SO ₂	0.01	0.01
41	Flare - Kristek	NO _x	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
		CO	0.01	0.02
		SO ₂	0.01	0.02
42	Flare - Wynne Nos. 1, 5, and 6	NO _x	0.01	0.01
		VOC	0.01	0.04
		H ₂ S	0.01	0.01
		CO	0.01	0.01
		SO ₂	0.01	0.01
43	Flare - Wynne No. 2	NO _x	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
		CO	0.01	0.01
		SO ₂	0.01	0.01
44	Flare - Wynne No. 3	NO _x	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
		CO	0.01	0.01
		SO ₂	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
45	Flare - Wynne Nos. 4, 7, and 8	CO	0.01	0.02
		SO ₂	0.01	0.02
		NO _x	0.01	0.01
		VOC	0.01	0.03
		H ₂ S	0.01	0.01
46	Flare - Mueller No. 2	CO	0.01	0.01
		SO ₂	0.01	0.01
		NO _x	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
47	Flare - Mueller No. 3	CO	0.01	0.01
		SO ₂	0.01	0.01
		NO _x	0.01	0.01
		VOC	0.01	0.02
		H ₂ S	0.01	0.01
48	Flare - Kubena	CO	0.01	0.05
		SO ₂	0.01	0.04
		NO _x	0.01	0.02
		VOC	0.02	0.08
		H ₂ S	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
400	Heater	CO	0.04	0.05
		SO ₂	0.03	0.03
		NO _x	0.05	0.05
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
900	Heater	CO	0.04	0.05
		SO ₂	0.03	0.03
		NO _x	0.05	0.05
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
1200	Heater	CO	0.08	0.09
		SO ₂	0.06	0.07
		NO _x	0.10	0.11
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
1500	Heater	CO	0.08	0.09
		SO ₂	0.06	0.07
		NO _x	0.10	0.11
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
9702	Heater	CO	0.04	0.05
		SO ₂	0.03	0.03
		NO _x	0.05	0.05
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
9613	Heater	CO	0.08	0.09
		SO ₂	0.06	0.07
		NO _x	0.10	0.11
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
9625	Heater	CO	0.04	0.05
		SO ₂	0.03	0.03
		NO _x	0.05	0.05
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
9626	Heater	CO	0.04	0.05
		SO ₂	0.03	0.03
		NO _x	0.05	0.05
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
9627	Tank 695	VOC	1.11	1.16
		H ₂ S	0.01	0.01
9628	Tank 696	VOC	1.11	1.16
		H ₂ S	0.01	0.01
9629	Tank 57162	VOC	1.11	0.44
		H ₂ S	0.01	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
9802	Heater	CO	0.04	0.05
		SO ₂	0.03	0.03
		NO _x	0.05	0.05
		PM	0.01	0.01
		VOC	0.01	0.01
		H ₂ S	0.01	0.01
9803	Tank 9803	VOC	1.11	0.58
		H ₂ S	0.01	0.01
9804	Tank 9804	VOC	1.11	0.58
		H ₂ S	0.01	0.01
9805	Compressor	CO	0.76	3.17
		SO ₂	0.18	0.75
		NO _x	3.81	15.87
		VOC	0.35	1.45
		H ₂ S	0.01	0.01
		PM/PM ₁₀ /PM _{2.5}	0.14	0.58
9810	Compressor	CO	0.38	1.59
		SO ₂	0.09	0.38
		NO _x	1.91	7.94
		VOC	0.17	0.73
		H ₂ S	0.01	0.01
		PM/PM ₁₀ /PM _{2.5}	0.07	0.29
9811	Compressor	CO	0.53	2.22
		SO ₂	0.06	0.25
		NO _x	0.73	3.03
		VOC	0.12	0.48
		H ₂ S	0.01	0.01
		PM/PM ₁₀ /PM _{2.5}	0.05	0.19
9812	Compressor	CO	0.53	2.22
		SO ₂	0.06	0.25
		NO _x	0.73	3.03
		VOC	0.12	0.48

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			lb/hr	TPY **
		H ₂ S	0.01	0.01
		PM/PM ₁₀ /PM _{2.5}	0.05	0.19
9817	Compressor	CO	0.53	2.22
		SO ₂	0.06	0.25
		NO _x	0.73	3.03
		VOC	0.12	0.48
		H ₂ S	0.01	0.01
		PM/PM ₁₀ /PM _{2.5}	0.05	0.19

(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) 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

VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

CO - carbon monoxide

H₂S - hydrogen sulfide

(4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.

* Emission rates are based on and the facilities are limited by the following maximum operating schedule:

Hrs/day 24 Days/week 7 Weeks/year 52 or Hrs/year _____

** Compliance with annual emission limits is based on a rolling 12-month period.

Dated: June 9, 2010