

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 36646

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**
F6HF61	F-6 Incinerator (5)	VOC	0.01	0.02
		NO _x	0.18	0.60
		CO	0.15	0.51
		PM ₁₀	0.03	0.10
		SO ₂	0.03	0.11
G2HTWL	G-2 Hotwell	VOC	0.01	0.01
G3HTWL	G-3 Hotwell	VOC	0.01	0.01
G5HTWL	G-5 Hotwell	VOC	0.01	0.01
G1TG1101	G-1 Hotwell T-G1-101	VOC	0.01	0.01
G5TG511	G-5 Hotwell T-G5-11	VOC	0.01	0.01
G1FUG	G-1 Unit Process Fugitives (4)	VOC	0.53	2.33
G1TG15	Tank T-G1-5 (Group 24)	VOC	1.78	
G1TG16	Tank T-G1-6 (Group 24)	VOC	1.78	
Total Annual Emissions for Group 24 Tanks		VOC		0.19
G1TG196	Tank T-G1-96	VOC	0.01	0.01
G1TG1100	Tank T-G1-100	VOC	0.01	0.01
G2FUG	G2 Unit Process Fugitives (4)	VOC	0.83	3.64

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G2TG21	Tank T-G2-1	VOC	0.18	0.05
G2TG215	Tank T-G2-15 (Groups 11 and 18)	VOC	0.07	
G2TG216	Tank T-G2-16 (Groups 11 and 18)	VOC	0.07	
Total Annual Emissions for Groups 11 and 18 Tanks		VOC		0.01
G2TG217	Tank T-G2-17	VOC	2.30	0.01
G2TG2111	Tank T-G2-111 (Groups 5 and 16)	VOC	0.61	
G2TG2112	Tank T-G2-112 (Groups 5 and 16)	VOC	0.61	
Total Annual Emissions for Groups 5 and 16 Tanks		VOC		1.23
G2TG2138	Tank T-G2-138	VOC	1.31	0.02
G3FUG	G3 Unit Process Fugitives (4)	VOC	0.65	2.85
G3TG31	Tank T-G3-1 (Group 27)	VOC	0.16	
G3TG32	Tank T-G3-2 (Group 27)	VOC	0.17	
G3TG311	Tank T-G3-11 (Group 27)	VOC	0.09	
G3TG312	Tank T-G3-12 (Group 27)	VOC	0.17	
Total Annual Emissions for Group 27 Tanks		VOC		0.07
G3TG33	Tank T-G3-3 (Group 12)	VOC	0.39	
G3TG34	Tank T-G3-4 (Group 12)	VOC	0.39	
Total Annual Emissions for Group 12 Tanks		VOC		0.01
G3TG35	Tank T-G3-5 (Groups 6 and 14)	VOC	1.52	

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			lb/hr	TPY**
G3TG36	Tank T-G3-6 (Groups 6 and 14)	VOC	1.52	
Total Annual Emissions for Groups 6 and 14 Tanks		VOC		0.01
G3TG38	Tank T-G3-8 (Group 20)	VOC	1.30	
G3TG39	Tank T-G3-9 (Group 20)	VOC	1.29	
Total Annual Emissions for Group 20 Tanks		VOC		0.01
G5FUG	G5 Unit Process Fugitives (4)	VOC	1.37	6.00
G5TG53	Tank T-G5-3	VOC	0.72	0.01
G5TG55	Tank T-G5-5 (Group 29)	VOC	0.03	
G5TG56	Tank T-G5-6 (Group 29)	VOC	0.03	
Total Annual Emissions for Group 29 Tanks		VOC		0.01
G5TG512	Tank T-G5-12 (Group 4)	VOC	0.94	
G5TG513	Tank T-G5-13 (Group 4)	VOC	0.94	
G5TG519	Tank F-G5-19 (Group 4)	VOC	0.94	
G5TG520	Tank F-G5-20 (Group 4)	VOC	0.94	
Total Annual Emissions for Group 4 Tanks		VOC		0.19
G5TG57	Tank T-G5-7 (Group 10)	VOC	0.03	
G5TG58	Tank T-G5-8 (Group 10)	VOC	0.03	
Total Annual Emissions for Group 10 Tanks		VOC		0.01
G5TG514	Tank T-G5-14 (Group 23)	VOC	0.24	

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			lb/hr	TPY**
G5TG515	Tank T-G5-15 (Group 23)	VOC	0.24	
Total Annual Emissions for Group 23 Tanks		VOC		0.07
G6FUG	G6 Unit Process Fugitives (4)	VOC	0.08	0.33
G6TG61	Tank T-G6-1	VOC	0.01	0.01
RSELD5	Dock Barge Loading	VOC	0.89	0.21
RSELRBMT5	Boomtrack Tankcar Loading	VOC	0.30	0.12
RSELRBMTD	Boomtrack Drum Loading	VOC	0.05	0.02
RSELRBMTW	Boomtrack Tankwagon Loading	VOC	0.21	0.12
RSELRPRDC	Product Rack Tankcar Loading	VOC	0.37	0.11
RSELRTRKW	Truck Rack Tankwagon Loading	VOC	0.10	0.01
RSET01	Tank T-0-1 (Group 8)	VOC	0.01	
RSET02	Tank T-0-2 (Group 8)	VOC	0.01	
RSET033	Tank T-0-33 (Group 8)	VOC	0.01	
RSET034	Tank T-0-34 (Group 8)	VOC	0.01	
Total Annual Emissions for Group 8 Tanks		VOC		0.01
RSET05	Tank T-0-5 (Groups 1 and 19)	VOC	0.27	
RSET06	Tank T-0-6 (Groups 1 and 19)	VOC	0.27	
RSET037	Tank T-0-37 (Group 1)	VOC	0.27	
RSET038	Tank T-0-38 (Group 1)	VOC	0.27	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY**
Total Annual Emissions for Groups 1 and 19 Tanks		VOC		0.05
RSET025	Tank T-0-25 (Groups 21 and 22)	VOC	0.06	
RSET0186	Tank T-0-186 (Groups 21 and 22)	VOC	0.06	
Total Annual Emissions for Groups 21 and 22 Tanks		VOC		0.02
RSET035	Tank T-0-35 (Group 2)	VOC	0.06	
RSET036	Tank T-0-36 (Group 2)	VOC	0.06	
Total Annual Emissions for Group 2 Tanks		VOC		0.01
RSET058	Tank T-0-58 (Group 25)	VOC	0.03	
RSET059	Tank T-0-59 (Group 25)	VOC	0.06	
RSET060	Tank T-0-60 (Group 25)	VOC	0.06	
Total Annual Emissions for Group 25 Tanks		VOC		0.01
RSET076	Tank T-0-76 (Group 26)	VOC	0.06	
RSET078	Tank T-0-78 (Group 26)	VOC	0.06	
Total Annual Emissions for Group 26 Tanks		VOC		0.01
RSET085	Tank T-0-85 (Group 3)	VOC	0.27	
RSET0121	Tank T-0-121 (Group 3)	VOC	0.27	
RSET0162	Tank T-0-162 (Group 3)	VOC	0.27	
RSET0201	Tank T-0-201 (Group 3)	VOC	0.27	
Total Annual Emissions for Group 3 Tanks		VOC		0.42

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RSET086	Tank T-0-86 (Group 9)	VOC	0.01	
RSET0181	Tank T-0-181 (Group 9)	VOC	0.01	
Total Annual Emissions for Group 9 Tanks		VOC		0.01
RSET095	Tank T-0-95 (Group 28)	VOC	0.11	
RSET0158	Tank T-0-158 (Groups 13 and 28)	VOC	0.11	
RSET0159	Tank T-0-159 (Groups 13 and 28)	VOC	0.11	
Total Annual Emissions for Groups 13 and 28 Tanks		VOC		0.01
RSET0132	Tank T-0-132	VOC	0.27	0.04
RSET0157	Tank T-0-157	VOC	0.01	0.01
RSET0133	Tank T-0-133 (Group 15)	VOC	0.17	
RSET0137	Tank T-0-137 (Group 15)	VOC	0.17	
RSET0202	Tank T-0-202 (Group 15)	VOC	0.17	
Total Annual Emissions for Group 15 Tanks		VOC		0.11
RSET0176	Tank T-P-176 (Group 7)	VOC	0.33	
RSET0177	Tank T-P-177 (Group 7)	VOC	0.33	
Total Annual Emissions for Group 7 Tanks		VOC		0.02
RSET0178	Tank T-P-178	VOC	0.25	0.02
RSET0168	Tank T-0-168 (Group 17)	VOC	0.03	
RSET0182	Tank T-0-182 (Group 17)	VOC	0.01	

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RSET0203	Tank T-0-203 (Group 17)	VOC	0.01	
Total Annual Emissions for Group 17 Tanks		VOC		0.01
RSEFUG	R&S Area Fugitives (4)	VOC	1.81	7.95
UEUL22	Cooling Tower No. 2/No. 3 (6)	VOC	0.70	3.07
UEUL31	Cooling Tower No. 6 (6)	VOC	0.08	0.35
UEUL34	Cooling Tower No. 1 (6)	VOC	1.04	4.56
G15WWFUG	G1/G5 Unit Wastewater (4)	VOC	1.52	0.64
G234WWFUG	G2/G3/G4 Unit Wastewater (4)	VOC	1.05	4.24
G6WWFUG	G6 Unit Wastewater (4)	VOC	0.65	1.37
LG112EJCT	G-1 Unit Ejector	VOC	0.01	0.01
LG32EJCT	G-3 Unit Ejector	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) VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
 NO_x - total oxides of nitrogen
 SO₂ - sulfur dioxide
 PM₁₀ - particulate matter (PM) equal to or less than 10 microns in diameter. Where PM is not listed, it shall be assumed that no PM greater than 10 microns is emitted.
 CO - carbon monoxide
- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Emission allowables for this Emission Point No. (EPN) are additive to the emission allowables for this EPN represented in the maximum allowable emission rates table of Permit Number 5952A.
- (6) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.

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			lb/hr	TPY**

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

___Hrs/day ___Days/week ___Weeks/year or 8,670 Hrs/year

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

Dated December 15, 2009