

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 49675

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)	Emission Rates *	
			lb/hr	TPY **
<u>Area D Tanks:</u>				
TC1-01	Tank 1-01	Inorganic (5)	0.15	0.03
		VOC (5)	4.80	0.26
TC1-02	Tank 1-02	Inorganic (5)	0.19	0.04
		VOC (5)	6.60	0.42
TC1-16	Tank 1-16	Inorganic (5)	0.20	0.04
		VOC (5)	6.90	0.42
TC1-23	Tank 1-23	Inorganic (5)	0.13	0.02
		VOC (5)	3.96	0.21
TC1-24	Tank 1-24	Inorganic (5)	0.16	0.02
		VOC (5)	5.28	0.21
Area D Tanks Annual Caps	Tank 1-01 through Tank 1-24	Inorganic (5)		0.15
		VOC (5)		1.52
Area D-TankFUG	Area D Tank Fugitives (4)	Inorganic	0.01	0.01
		VOC	0.01	0.01
<u>Area E Tanks:</u>				
TC1-03	Tank 1-03	Inorganic Acid (6)	0.07	0.01
		Inorganic (6)	0.15	0.04
		VOC (6)	4.69	0.48

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
TC1-04	Tank 1-04	Inorganic Acid (6)	0.09	0.01
		Inorganic (6)	0.19	0.04
		VOC (6)	6.49	0.35
TC1-05	Tank 1-05	Inorganic Acid (6)	0.07	0.01
		Inorganic (6)	0.14	0.04
		VOC (6)	4.56	0.35
TC1-06	Tank 1-06	Inorganic Acid (6)	0.08	0.01
		Inorganic (6)	0.16	0.04
		VOC (6)	5.40	0.35
TC1-07	Tank 1-07	Inorganic Acid (6)	0.08	0.01
		Inorganic (6)	0.17	0.04
		VOC (6)	5.77	0.35
TC1-08	Tank 1-08	Inorganic Acid (6)	0.09	0.01
		Inorganic (6)	0.18	0.04
		VOC (6)	6.01	0.34
TC1-09	Tank 1-09	Inorganic Acid (6)	0.07	0.01
		Inorganic (6)	0.15	0.04
		VOC (6)	5.04	0.34
TC1-10	Tank 1-10	Inorganic Acid (6)	0.08	0.01
		Inorganic (6)	0.17	0.03
		VOC (6)	5.93	0.32
TC1-12	Tank 1-12	Inorganic Acid (6)	0.09	0.01
		Inorganic (6)	0.19	0.03
		VOC (6)	6.37	0.27
TC1-13	Tank 1-13	Inorganic Acid (6)	0.09	0.01
		Inorganic (6)	0.18	0.03
		VOC (6)	6.06	0.31
TC1-14	Tank 1-14	Inorganic Acid (6)	0.08	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
		Inorganic (6)	0.16	0.03
		VOC (6)	5.39	0.31
TC1-17	Tank 1-17	Inorganic Acid (6)	0.08	0.01
		Inorganic (6)	0.17	0.03
		VOC (6)	5.77	0.35
TC1-18	Tank 1-18	Inorganic Acid (6)	0.07	0.01
		Inorganic (6)	0.15	0.03
		VOC (6)	4.80	0.25
TC1-19	Tank 1-19	Inorganic Acid (6)	0.06	0.01
		Inorganic (6)	0.13	0.03
		VOC (6)	4.04	0.27
TC1-20	Tank 1-20	Inorganic Acid (6)	0.07	0.01
		Inorganic (6)	0.15	0.04
		VOC (6)	4.84	0.48
TC1-21	Tank 1-21	Inorganic Acid (6)	0.09	0.01
		Inorganic (6)	0.19	0.04
		VOC (6)	6.61	0.35
TC1-22	Tank 1-22	Inorganic Acid (6)	0.09	0.01
		Inorganic (6)	0.18	0.03
		VOC (6)	6.13	0.27
TC1-25	Tank 1-25	Inorganic Acid (6)	0.05	0.01
		Inorganic (6)	0.12	0.03
		VOC (6)	3.64	0.32
TC1-30	Tank 1-30	Inorganic Acid (6)	0.06	0.01
		Inorganic (6)	0.13	0.03
		VOC (6)	4.20	0.25
Area E Tanks	Tank 1-03 through	Inorganic Acid (6)		0.19
Annual Caps	Tank 1-30	Inorganic (6)		0.67

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Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
		VOC (6)		6.31
Area E-TankFUG	Area E Tank Fugitives (4)	Inorganic Acid	0.11	0.01
		Inorganic	0.06	0.01
		VOC	0.04	0.01
<u>Area N Tanks:</u>				
TC2-01	Tank 2-01	Inorganic (7)	0.37	0.06
		VOC (7)	11.53	0.59
TC2-02	Tank 2-02	Inorganic (7)	0.39	0.06
		VOC (7)	11.53	0.59
TC2-03	Tank 2-03	Inorganic (7)	0.42	0.06
		VOC (7)	11.53	0.59
TC2-04	Tank 2-04	Inorganic (7)	0.13	0.04
		VOC (7)	4.32	0.37
TC2-05	Tank 2-05	Inorganic (7)	0.20	0.03
		VOC (7)	6.73	0.25
Area N Tanks Annual Caps	Tank 2-01 through Tank 2-05	Inorganic (7)		0.25
		VOC (7)		2.39
Area N-TankFUG	Area N Tank Fugitives (4)	Inorganic	0.01	0.01
		VOC	0.03	0.01

## Area T Tanks:

TS1-01	Tank 1-01	VOC (8)	11.53	0.22
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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
TS1-02	Tank 1-02	VOC (8)	11.53	0.22
TS1-03	Tank 1-03	VOC (8)	11.53	0.22
TS1-06	Tank 1-06	VOC (8)	11.53	0.27
TS1-07	Tank 1-07	VOC (8)	11.53	0.27
TS1-09	Tank 1-09	VOC (8)	12.93	0.31
TS1-10	Tank 1-10	VOC (8)	11.53	0.22
TS1-11	Tank 1-11	VOC (8)	11.53	0.22
TS1-12	Tank 1-12	VOC (8)	11.53	0.22
TS1-13	Tank 1-13	VOC (8)	11.53	0.27
TS1-14	Tank 1-14	VOC (8)	11.53	0.27
TS1-15	Tank 1-15	VOC (8)	11.53	0.27
TS1-16	Tank 1-16	VOC (8)	11.53	0.35
TS1-17	Tank 1-17	VOC (8)	11.53	0.35
TS1-18	Tank 1-18	VOC (8)	11.53	0.35
TS1-19	Tank 1-19	VOC (8)	9.49	0.22
TS1-20	Tank 1-20	VOC (8)	9.49	0.22
TS1-21	Tank 1-21	VOC (8)	9.49	0.22
TS1-22	Tank 1-22	VOC (8)	11.53	0.27
TS1-23	Tank 1-23	VOC (8)	11.53	0.27
TS1-24	Tank 1-24	VOC (8)	11.53	0.27
TS1-25	Tank 1-25	VOC (8)	11.53	0.35
TS1-26	Tank 1-26	VOC (8)	11.53	0.35
TS1-27	Tank 1-27	VOC (8)	11.53	0.35
		Non-VOC Organic (8)	59.11	1.86
TS1-28	Tank 1-28	VOC (8)	5.16	0.22
TS1-29	Tank 1-29	VOC (8)	5.16	0.22
TS1-30	Tank 1-30	VOC (8)	5.16	0.22
TS1-31	Tank 1-31	VOC (8)	11.53	0.27
TS1-32	Tank 1-32	VOC (8)	11.53	0.27
TS1-33	Tank 1-33	VOC (8)	11.53	0.27
TS1-34	Tank 1-34	VOC (8)	11.53	0.35
TS1-35	Tank 1-35	VOC (8)	11.53	0.35
TS1-36	Tank 1-36	VOC (8)	11.53	0.35
		Non-VOC Organic (8)	57.88	1.86
TS1-37	Tank 1-37	VOC (8)	5.28	0.22
TS1-38	Tank 1-38	VOC (8)	5.28	0.22

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Emission	Source	Air Contaminant	Emission Rates *	
Point No. (1)	Name (2)	Name (3)	lb/hr	TPY **
TS1-39	Tank 1-39	VOC (8)	5.28	0.22
TS1-40	Tank 1-40	VOC (8)	3.24	0.22
TS1-41	Tank 1-41	VOC (8)	3.24	0.22
TS1-42	Tank 1-42	VOC (8)	3.24	0.22
TS1-44	Tank 1-44	VOC (8)	14.40	0.52
TS1-48	Tank 1-48	VOC (8)	8.41	0.26
TS1-49	Tank 1-49	VOC (8)	11.53	0.45
TS1-50	Tank 1-50	VOC (8)	11.53	0.45
TS1-51	Tank 1-51	VOC (8)	11.53	0.45
TS1-52	Tank 1-52	VOC (8)	11.53	0.45
TS1-60	Tank 1-60	VOC (8)	12.93	0.31
TS1-61	Tank 1-61	VOC (8)	11.53	0.25
TS1-105	Tank 1-105	VOC (8)	11.53	0.20
Area T Tanks Annual Caps	Tank 1-01 through Tank 1-105	VOC (8)		13.73
		Non-VOC Organic (8)		3.72
AreaT-TankFUG	Area T Tank Fugitives (4)	VOC	1.97	0.02
		Non-VOC Organic	0.05	0.05
<u>Area W Tanks:</u>				
TW1-01	Tank 1-01	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.45	0.03
		VOC (9)	11.53	0.27
TW1-02	Tank 1-02	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.41	0.03
		VOC (9)	11.53	0.29
TW1-03	Tank 1-03	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.35	0.03
		VOC (9)	12.53	0.31
TW1-04	Tank 1-04	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.48	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
		VOC (9)	11.53	0.27
TW1-05	Tank 1-05	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.46	0.03
		VOC (9)	11.53	0.27
TW1-06	Tank 1-06	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.42	0.04
		VOC (9)	11.53	0.34
TW1-07	Tank 1-07	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.48	0.03
		VOC (9)	11.53	0.27
TW1-08	Tank 1-08	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.47	0.03
		VOC (9)	11.53	0.27
TW1-09	Tank 1-09	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.42	0.04
		VOC (9)	11.53	0.35
TW1-10	Tank 1-10	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.47	0.03
		VOC (9)	11.53	0.27
TW1-11	Tank 1-11	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.38	0.04
		VOC (9)	13.68	0.44
TW1-12	Tank 1-12	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.38	0.04
		VOC (9)	12.93	0.40
TW1-13	Tank 1-13	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.40	0.03

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
		VOC (9)	11.53	0.27
TW1-14	Tank 1-14	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.41	0.03
		VOC (9)	11.53	0.27
TW1-15	Tank 1-15	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.43	0.02
		VOC (9)	11.53	0.23
TW1-16	Tank 1-16	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.40	0.02
		VOC (9)	11.53	0.23
TW1-18	Tank 1-18	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.40	0.02
		VOC (9)	11.53	0.22
TW1-19	Tank 1-19	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.45	0.03
		VOC (9)	13.97	0.35
TW1-20	Tank 1-20	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.45	0.03
		VOC (9)	13.97	0.35
TW1-21	Tank 1-21	Inorganic Acid (9)	0.13	0.01
		Inorganic (9)	0.48	0.03
		VOC (9)	13.97	0.35
Area W Tanks Annual caps	Tank 1-01 through Tank 1-21	Inorganic Acid (9)		0.20
		Inorganic (9)		0.88
		VOC (9)		6.01
Area W-TankFUG	Area W Tank Fugitives (4)	VOC	0.11	0.01
		Inorganic Acids	0.01	0.01



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## AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
		Other Inorganics	0.03	0.01
EPN 6A	Warm Room Vent 1	VOC	0.43	0.01
EPN 6B	Warm Room Vent 2	VOC	0.43	0.01
<u>Area E Loading:</u>				
EPN7	Area E Loading (uncontrolled)	VOC	0.15	0.01
		Inorganics	0.39	0.01
SCRUB-LE	Area E Loading	VOC	0.46	0.24
		Inorganics	0.02	0.02
		Inorganic Acids	0.02	0.17
LE-FUG	Area E Loading Fugitives (4)	VOC	0.29	0.01
		Inorganic Acids	0.11	0.01
		Other Inorganics	0.28	0.01
<u>Area N Loading:</u>				
SCRUB-LN	Area N Loading	VOC	0.02	0.12
		Inorganics	0.09	0.19
LN-FUG	Area N Loading Fugitives (4)	VOC	0.06	0.01
		Inorganics	0.05	0.01
<u>Area T Loading:</u>				
EPN 9 and 10	Area T Loading (uncontrolled)	VOC	64.24	0.47
		Inorganics	0.01	0.01
SCRUB-LT	Area T Loading	VOC	1.90	2.66
		Non-VOC Organics	0.41	0.74
		Inorganic Acids	0.01	0.01

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### AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u>	
			lb/hr	TPY **
CAS-LT	Area T Loading	VOC	22.93	5.26
	Non-VOC Organics	1.76	0.05	
LT-FUG	Area T Loading	VOC	5.93	0.05
	Fugitives (4)	Non-VOC Organics	0.15	0.01
		Inorganic Acid	0.02	0.01
		Other Inorganics	0.05	0.01
<u>Area W Loading:</u>				
EPN 11	Area W Loading	VOC	2.34	0.01
	(uncontrolled)	Inorganics	0.01	0.01
SCRUB-LW	Area W Loading	VOC	0.31	0.27
	Inorganics	0.01	0.01	
CAS-LW	Area W Loading	VOC	0.02	0.01
LW-FUG	Area W Loading	VOC	2.43	0.02
	Fugitives (4)	Inorganic Acid	0.04	0.01
		Other Inorganics	0.20	0.01
<u>Area D Drumming:</u>				
EPN 12	Area D Drumming	VOC	0.01	0.01
	(uncontrolled)	Inorganics	0.03	0.01
SCRUB-DD	Area D Drumming	Inorganics	0.01	0.04
DD-FUG	Area D Drumming	VOC	0.09	0.01
	Fugitives (4)	Inorganics	0.28	0.02
<u>Area E Drumming:</u>				
EPN 13	Area E Drumming	VOC	0.21	0.01
	(uncontrolled)	Inorganics	0.06	0.01

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
SCRUB-DE	Area E Drumming Inorganic Acid	VOC	0.17	0.30
		0.07	0.21	
		Other Inorganics	0.12	0.10
DE-FUG	Area E Drumming Fugitives (4)	VOC	0.66	0.01
		Inorganic Acid	0.37	0.04
		Other Inorganics	0.64	0.06
<u>Area T Drumming:</u>				
EPNs 14 and 15	Area T Drumming (uncontrolled) Inorganics	VOC	49.47	0.73
		Non-VOC Organics	9.26	0.05
		2.22	0.02	
SCRUB-DT	Area T Drumming	VOC	0.12	0.06
CAS-DT	Area T Drumming non-VOC Organics	VOC	23.70	6.02
		2.03	0.61	
DT-FUG	Area T Drumming Fugitives (4) Inorganic Acid Other Inorganics	VOC	8.30	0.11
		Non-VOC Organics	0.48	0.01
		0.02	0.01	
		0.09	0.01	
<u>Area W Drumming:</u>				
EPN 16	Area W Drumming (uncontrolled)	VOC	2.54	0.03
SCRUB-DW	Area W Drumming Non-VOC Organics	VOC	0.25	0.21
		0.01	0.01	

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	Emission Rates *	
			lb/hr	TPY **
DW-FUG	Area W Drumming	VOC	3.35	0.04
	Fugitives (4)	Inorganic Acids	0.11	0.01
	Other Inorganics	0.24	0.01	

- (1) Emission point identification - either specific equipment designation or emission point number 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
- (4) Emission rate is an estimate and compliance is demonstrated by meeting the requirements of the applicable special conditions and permit application representations.
- (5) The total annual emissions from EPNs TC1-01 through TC1-24 in Area D Tanks shall not exceed the Cap limits.
- (6) The total annual emissions from EPNs TC1-03 through TC1-30 in Area E Tanks shall not exceed the Cap limits.
- (7) The total annual emissions from EPNs TC2-01 through TC2-05 in Area N Tanks shall not exceed the Cap limits.
- (8) The total annual emissions from EPNs TS1-01 through TS-105 in Area TTanks shall not exceed the Cap limits.
- (9) The total annual emissions from EPNs TW1-01 through TW1-21 in Area W Tanks shall not exceed the Cap limits.

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

8,760 hrs/year

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

Dated October 4, 2007