

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 7195A

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**
1	Tank	VOC	12.6	3.4
2	Tank	VOC	12	3
3	Tank (5)	VOC	1.6	6.9
3	Tank (6)	VOC	4	10
4	Tank (5)	VOC	1.6	6.9
4	Tank (6)	VOC	4	10
5a	Flare	VOC	31	19
		Benzene	0.4	0.24
		NO _x	4.6	3.8
		CO	9.1	7.6
7	Tank	Lube Oil	12.1	0.4
8	Tank	Lube Oil	12.1	0.4
9	Tank	VOC	6.6	0.3
10	Tank	Lube Oil	12.1	0.4
11	Tank	Lube Oil	12.1	0.4
12	Tank (5)	VOC	1.7	6.4
12	Tank (6)	VOC	3	6.3

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			lb/hr	TPY**
13	Tank	Lube Oil	12.1	0.5
14	Tank	Lube Oil	12.1	0.8
15	Tank	Lube Oil	12.1	0.5
16a	Tank	Lube Oil	12	<0.1
100	Tank	VOC	6.7	1.6
101	Tank	Lube Oil	12	<0.1
117	Tank	Lube Oil	12.1	0.6
119	Tank	Veg Oil	<0.1	<0.1
122	Tank	Veg Oil	<0.1	<0.1
123	Tank	Veg Oil	<0.1	<0.1
124	Tank	Lube Oil	12.2	0.8
125	Tank	Veg Oil	<0.1	<0.1
126	Tank	Veg Oil	<0.1	<0.1
127	Tank	Veg Oil	<0.1	<0.1
128	Tank	Veg Oil	<0.1	<0.1
129	Tank	Veg Oil	<0.1	<0.1
131	Tank	VOC	0.1	0.5
132	Tank	Veg Oil	<0.1	<0.1
201	Tank	Veg Oil	<0.1	<0.1

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			lb/hr	TPY**
202	Tank	Veg Oil	<0.1	<0.1
203	Tank	Veg Oil	<0.1	<0.1
204	Tank	Veg Oil	<0.1	<0.1
205	Tank	Veg Oil	<0.1	<0.1
DFILL	Diesel Emissions	VOC	3.02	6.88
DOCK No. 5	Fugitives (4)	VOC	0.01	0.1
DOCK5VCU	VCU Barge Dock	VOC	32.27	73.6
		NO _x	20.85	47.5
		CO	41.70	95.1
		PM ₁₀	0.59	1.3
		SO ₂	0.05	0.1
LR-1	Truck Rack	VOC, Lube Oil	1.8	0.9
LR-2	Truck Rack	VOC, Lube Oil	1.8	0.9
LR-3	Truck Rack	VOC, Lube Oil	1.8	0.6
LR-4	Truck Rack	VOC, Lube Oil	2.4	0.7
LR-5	Truck Rack	VOC, Lube Oil	0.9	3.7
LR-100	Truck Rack	VOC, Lube Oil	0.9	0.3
LR-101	Truck Rack	VOC, Lube Oil	0.5	0.15
LR-200	Truck Rack	Veg Oil	<0.1	<0.1

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			lb/hr	TPY**
LR-201	Truck Rack	Veg Oil	<0.1	<0.1
LR-202	Truck Rack	Veg Oil	<0.1	<0.1
N24-1	Railcar Spot	VOC, Lube Oil	0.9	(7)
N24-2	Railcar Spot	VOC, Lube Oil	0.9	(7)
N24-3	Railcar Spot	VOC, Lube Oil	0.9	(7)
N24-4	Railcar Spot	VOC, Lube Oil	0.9	(7)
N25-1	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-2	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-3	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-4	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-5	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-6	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-7	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-8	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-9	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-10	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-11	Railcar Spot	VOC, Lube Oil	0.9	(8)
N25-12	Railcar Spot	VOC, Lube Oil	0.9	(8)

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N25-13	Railcar Spot	VOC, Lube Oil	0.9	(8)
N2829-1	Railcar Spot	Veg Oil	<0.1	(9)
N2829-2	Railcar Spot	Veg Oil	<0.1	(9)
N2829-3	Railcar Spot	Veg Oil	<0.1	(9)
N2829-4	Railcar Spot	Veg Oil	<0.1	(9)
N2829-5	Railcar Spot	Veg Oil	<0.1	(9)
OD-1	Dock	VOC, Lube Oil	1.3	0.1
OD-2	Dock	VOC, Lube Oil	1.3	0.1
OD-3	Dock	VOC, Lube Oil	13.4	0.2
OILDOCK No. 2	Fugitives, (4)	VOC (naphtha)	0.15	0.002
	Marine Dock 2	VOC (coal tar)	< 0.01	< 0.01
TNKFUGIT1	Fugitives, (4) Main Tank Farm	VOC, Lube Oil	2.58	11.29
TNKFUGIT2	Fugitives, (4) TK-100 Farm	VOC, Lube Oil	0.52	2.28
TNKFUGIT3	Fugitives, (4) 100-Series Tank Farm	VOC, Lube Oil	0.60	2.64
TNKFUGIT4	Fugitives, (4) 200-Series Tank Farm	Veg Oil	<0.01	<0.01
TNKFUGIT5	Fugitives, (4)	Veg Oil	<0.01	<0.01

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Union Carbide Tank Farm

- (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) CO - carbon monoxide
NO_x - total oxides of nitrogen
Veg Oil - vegetable oil
VOC - volatile organic compounds as defined in Title 30 Texas Administrative Code § 101.1
PM - particulate matter suspended in the atmosphere, including PM₁₀.
PM₁₀ - particulate matter 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.
SO₂ - sulfur dioxide
 - (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
 - (5) This maximum allowable emissions rate is based on current facility operation and shall cease to apply when the Loading Rack 3a Monitoring System is modified as required in Special Condition No. 18.
 - (6) This maximum allowable emissions rate is based on future facility operation and shall become effective when the Loading Rack 3a Monitoring System is modified as required in Special Condition No. 18.
 - (7) The sum of the VOC emissions from all the loading spots in the Loading Rack N24 may not exceed 0.3 tpy.
 - (8) The sum of the VOC emissions from all the loading spots in the Loading Rack N25 may not exceed 0.1 tpy.
 - (9) The sum of the VOC emissions from all the loading spots in the Loading Rack N2829 may not exceed 0.1 tpy.
- * Emission rates are based on and the facilities are limited by the following maximum operating schedule:

_____Hrs/day_____Days/week_____Weeks/year or 8,760 Hrs/year

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

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Dated May 29, 2003