

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES SHORT-TERM

Permit Number: 3467B

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 **
B-001	Storage Tank B-1 (6.2 MB)	VOC	77.19
B-002	Storage Tank B-2 (6.2 MB)	VOC	77.19
B-003	Storage Tank B-3 (6.2 MB)	VOC	77.19
B-004	Storage Tank B-4 (6.2 MB)	VOC	77.19
B-005	Storage Tank B-5 (6.2 MB)	VOC	77.19
B-006	Storage Tank B-6 (6.2 MB)	VOC	77.19
B-007	Storage Tank B-7 (6.2 MB)	VOC	77.19
B-008	Storage Tank B-8 (6.2 MB)	VOC	77.19
B-009	Storage Tank B-9 (6.2 MB)	VOC	77.19
B-010	Storage Tank B-10 (6.2 MB)	VOC	77.19
B-011	Storage Tank B-11 (6.2 MB)	VOC	77.19
B-012	Storage Tank B-12 (6.2 MB)	VOC	77.19
B-013	Storage Tank B-13 (6.2 MB)	VOC	9.60
B-014	Storage Tank B-14 (6.2 MB)	VOC	77.19
B-015	Storage Tank B-15 (6.2 MB)	VOC	77.19

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr **
B-016	Storage Tank B-16 (6.2 MB)	VOC	77.19
B-017	Storage Tank B-17 (6.2 MB)	VOC	77.19
B-018	Storage Tank B-18 (6.2 MB)	VOC	77.19
B-019	Storage Tank B-19 (6.2 MB)	VOC	77.19
B-020	Storage Tank B-20 (6.2 MB)	VOC	77.19
B-021	Storage Tank B-21 (6.2 MB)	VOC	77.19
B-022	Storage Tank B-22 (6.2 MB)	VOC	77.19
B-023	Storage Tank B-23 (6.2 MB)	VOC	77.19
B-024	Storage Tank B-24 (6.2 MB)	VOC	77.19
B-025	Storage Tank B-25 (6.2 MB)	VOC	77.19
B-026	Storage Tank B-26 (6.2 MB)	VOC	77.19
B-027	Storage Tank B-27 (6.2 MB)	VOC	77.19
B-028	Storage Tank B-28 (6.2 MB) (7)	VOC	77.19
B-029	Storage Tank B-29 (6.2 MB)	VOC	77.19
B-030	Storage Tank B-30 (6.2 MB)	VOC	77.19
B-031	Storage Tank B-31 (6.2 MB)	VOC	77.19
B-032	Storage Tank B-32 (6.2 MB)	VOC	77.19
B-033	Storage Tank B-33 (6.2 MB)	VOC	77.19

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr **
B-034	Storage Tank B-34 (6.2 MB)	VOC	77.19
B-035	Storage Tank B-35 (6.2 MB)	VOC	77.19
B-036	Storage Tank B-36 (6.2 MB)	VOC	77.19
B-037	Storage Tank B-37 (6.2 MB)	VOC	77.19
B-038	Storage Tank B-38 (6.2 MB)	VOC	77.19
B-039	Storage Tank B-39 (6.2 MB)	VOC	77.19
B-040	Storage Tank B-40 (6.2 MB)	VOC	77.19
B-041	Storage Tank B-41 (7.0MB)	VOC	0.25
B-200	Storage Tank B-200 (12.5 MB)	VOC	86.83
B-201	Storage Tank B-201 (12.5 MB)	VOC	86.83
B-202	Storage Tank B-202 (12.5 MB)	VOC	86.83
B-203	Storage Tank B-203 (12.5 MB)	VOC	86.83
B-204	Storage Tank B-204 (12.5 MB)	VOC	86.83
B-205	Storage Tank B-205 (12.5 MB)	VOC	86.83
B-206	Storage Tank B-206 (12.5 MB)	VOC	86.83
B-207	Storage Tank B-207 (12.5 MB)	VOC	86.83
B-208	Storage Tank B-208 (12.5 MB)	VOC	86.83
B-209	Storage Tank B-209 (12.5 MB)	VOC	86.83

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr **
B-210	Storage Tank B-210 (12.5 MB)	VOC	86.83
B-211	Storage Tank B-211 (12.5 MB)	VOC	86.83
B-212	Storage Tank B-212 (3.6 MB)	VOC	77.19
B-213	Storage Tank B-213 (6.7 MB)	VOC	77.19
B-214	Storage Tank B-214 (12.5 MB)	VOC	86.83
B-215	Storage Tank B-215 (12.5 MB)	VOC	86.83
B-216	Storage Tank B-216 (6.7 MB)	VOC	77.19
B-217	Storage Tank B-217 (37.5 MB)	VOC	46.32
B-218	Storage Tank B-218 (37.5 MB)	VOC	46.32
B-219	Storage Tank B-219 (12.5 MB)	VOC	86.83
B-220	Storage Tank B-220 (12.5 MB)	VOC	86.83
B-221	Storage Tank B-221 (12.5 MB)	VOC	86.83
B-222	Storage Tank B-222 (12.5 MB)	VOC	86.83
B-300	Storage Tank B-300 (25 MB)	VOC	115.78
B-301	Storage Tank B-301 (25 MB)	VOC	115.78
B-302	Storage Tank B-302 (25 MB)	VOC	115.78
B-303	Storage Tank B-303 (25 MB)	VOC	115.78

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr **
B-304	Storage Tank B-304 (25 MB)	VOC	115.78
B-305	Storage Tank B-305 (25 MB)	VOC	115.78
B-306	Storage Tank B-306 (25 MB)	VOC	115.78
B-307	Storage Tank B-307 (25 MB)	VOC	115.78
B-308	Storage Tank B-308 (25 MB)	VOC	115.78
B-309	Storage Tank B-309 (25 MB)	VOC	115.78
B-310	Storage Tank B-310 (25 MB)	VOC	115.78
B-311	Storage Tank B-311 (25 MB)	VOC	115.78
B-313	Storage Tank B-313 (30 MB)	VOC	46.32
B-400	Storage Tank B-400 (50 MB)	VOC	46.32
B-401	Storage Tank B-401 (50 MB)	VOC	46.32
B-402	Storage Tank B-402 (50 MB)	VOC	46.32
B-403	Storage Tank B-403 (50 MB)	VOC	46.32
B-404	Storage Tank B-404 (50 MB)	VOC	46.32
B-405	Storage Tank B-405 (50 MB)	VOC	46.32
B-406	Storage Tank B-406 (50 MB)	VOC	46.32
B-407	Storage Tank B-407 (50 MB)	VOC	46.32
B-408	Storage Tank B-408 (50 MB)	VOC	46.32

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr **
B-409	Storage Tank B-409 (50 MB)	VOC	46.32
B-410	Storage Tank B-410 (50 MB)	VOC	46.32
B-411	Storage Tank B-411 (50 MB)	VOC	46.32
B-412	Storage Tank B-412 (50 MB)	VOC	46.32
B-413	Storage Tank B-413 (50 MB)	VOC	46.32
B-414	Storage Tank B-414 (50 MB)	VOC	46.32
B-415	Storage Tank B-415 (50 MB)	VOC	46.32
B-500	Storage Tank B-500 (80 MB)	VOC	68.82
B-501	Storage Tank B-501 (80 MB)	VOC	68.82
B-502	Storage Tank B-502 (80 MB)	VOC	68.82
B-503	Storage Tank B-503 (80 MB)	VOC	68.82
B-504	Storage Tank B-504 (80 MB)	VOC	68.82
B-505	Storage Tank B-505 (50 MB)	VOC	68.82
B-506	Storage Tank B-506 (50 MB)	VOC	68.82
B-507	Storage Tank B-507 (80 MB)	VOC	68.82
B-511	Storage Tank B-511 (80 MB) (6)	VOC	68.82
B-512	Storage Tank B-512 (80 MB) (6)	VOC	68.82
B-513	Storage Tank B-513 (80 MB) (6)	VOC	68.82

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AIR CONTAMINANTS DATA

Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr **
B-514	Storage Tank B-514 (80 MB) (6)	VOC	68.82
B-515	Storage Tank B-515 (80 MB) (6)	VOC	68.82
B-701	Storage Tank B-701 (50 MB)	VOC	46.32
B-702	Storage Tank B-702 (50 MB)	VOC	46.32
B-703	Storage Tank B-703 (50 MB)	VOC	46.32
B-704	Storage Tank B-704 (50 MB)	VOC	46.32
B-800	Storage Tank B-800 (150 MB)	VOC	0.13
B-900	Storage Tank B-900 (100 MB) (6)	VOC	10.90
LR-1	Tank Truck/Rail Car Loading Rack (34 Spots)	VOC	43.28 (per spot)
LR-2	Tank Truck Loading Rack (4 Spots)	VOC	13.52 (per spot)
LR-3	Tank Truck Loading Rack (6 Spots)	VOC	13.52 (per spot)
LR-4	Rail Car Loading Rack (24 Spots)	VOC	43.28 (per spot)
SRT 1-5	Tank Truck Unloading Rack	VOC	(5)
MT-1	Marine Terminal Vessel Dock No. 1	VOC	22.72
MT-2	Marine Terminal Vessel Dock No. 2	VOC	22.72

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr **
BG-1	Barge Dock (4 Berths)	VOC	56.80
FL-1	Loading Rack Flare No. 1	VOC	14.99
		NO _x	0.79
		CO	6.81
FL-2	Styrene Flare	VOC	14.99
		NO _x	0.79
		CO	6.81
FL-3	Loading Rack Flare No. 2	VOC	14.99
		NO _x	0.79
		CO	6.81
FL-4	Propylene Oxide Marine Flare	VOC	33.25
		NO _x	2.08
		CO	17.92
FL-5	Marine Flare	VOC	33.25
		NO _x	2.08
		CO	17.92
FL-6	Isobutylene Sphere (B-700) Flare	VOC	0.18
		NO _x	0.02
		CO	0.04
VS-1	Tank Vent Scrubber (B-28) (7)	VOC	0.94
FUG	Process Fugitives (4)	VOC	3.55
BLR-3	Cleaver Brooks Steam Boiler (600 Horsepower)	VOC	0.07
		NO _x	3.48
		CO	0.87
		SO ₂	0.36
		PM ₁₀	0.15

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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> lb/hr **
BLR-4	Reliance 3WB350 Steam Boiler (350 Horsepower)	VOC	0.04
		NO _x	2.09
		CO	0.52
		SO ₂	0.21
		PM ₁₀	0.09

EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES
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Emission Point No. (1)	Source Name (2)	Air Contaminant Name (3)	<u>Emission Rates *</u> TPY ***
B-001 thru B-900	Storage Tanks	VOC	100.80
LR-1 thru LR-4	Truck/Rail Loading, All Spots (No Controls)	VOC	4.00
BG-1, MT-1, MT-2	Barge/Ship Loading, All Docks (No Controls)	VOC	14.72
FL-1, FL-2, FL-3, FL-6	Flares - Land Based	VOC	5.12
		NO _x	0.33
		CO	2.26
FL-4, FL-5	Flares - Marine Loading	VOC	22.00
		NO _x	1.04
		CO	8.96
VS-1	Tank Vent Scrubber (B-28) (7)	VOC	0.02
BLR-3 and BLR-4	Steam Boilers	VOC	0.44
		NO _x	22.26
		CO	5.56
		SO ₂	2.27
		PM ₁₀	0.99
FUG	Fugitives (4)	VOC	15.81

(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 30 Texas Administrative Code Section 101.1

NO_x - total oxides of nitrogen

SO₂ - sulfur dioxide

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 particulate matter greater than 10 microns is emitted.

CO - carbon monoxide

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- (4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.
- (5) Unloading, vapor balance, or vapor control service only (no emissions).
- (6) Not yet constructed as of May 2002.
- (7) Tank B-28 will vent through the Tank Vent Scrubber (EPN VS-1) when in dimethylaminoethanol service.
- * Emission rates are based on continuous operations.
- ** Short-term storage tank allowable emission rates are based on operation as fixed-roof tanks.
- *** Compliance with annual emission limits is based on a rolling 12-month period.

Dated _____