

Emission Sources - Maximum Allowable Emission Rates

Permit Number 1257A

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, sources, and related activities. 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 | |
|------------------------|-----------------|--------------------------|----------------|---------|
| | | | lbs/hour | TPY (4) |
| B-3-1 | Flare | SO ₂ | 115.92 | 303.37 |
| | | CO | 60.8 | 189.4 |
| | | VOC | 60.96 | 162.11 |
| | | NO _x | 2.75 | 12.07 |
| | | Ammonia | 0.01 | 0.01 |
| | | Acetone | 3.23 | 8.45 |
| B-3-3 | Tank 34140 | Acetone | 0.30 | 0.01 |
| | | VOC | 11.48 | 0.11 |
| | | Methacrylamide | 0.01 | 0.01 |
| | | SO ₂ | 0.01 | 0.01 |
| B-3-4 | Tank 34120 | Acetone | 0.01 | 0.03 |
| | | VOC | 4.79 | 0.09 |
| B-3-5 | Tank 34125 | Acetone | 0.01 | 0.01 |
| | | VOC | 4.79 | 0.16 |
| B-3-7 | Tank 34290 | VOC | 26.38 | 0.56 |
| B-3-8 | Tank 34291 | VOC | 47.32 | 0.27 |
| B-3-9 | Tank 34326 | VOC | 11.17 | 0.14 |
| B-3-10 | Tank 34327 | VOC | 0.59 | 0.04 |
| B-3-11 | Tank 34335 | Ammonia | 2.76 | 0.05 |
| | | Acetone | 33.24 | 0.57 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|--------|------------|----------------|-------|------|
| | | Methyl acetate | 4.13 | 0.07 |
| | | Methyl formate | 2.87 | 0.05 |
| | | VOC | 13.51 | 0.24 |
| B-3-12 | Tank 34343 | Acetone | 46.97 | 0.42 |
| | | Ammonia | 3.83 | 0.04 |
| | | VOC | 18.80 | 0.18 |
| | | Methyl acetate | 0.06 | 0.1 |
| | | Methyl formate | 0.04 | 0.07 |
| B-3-18 | Tank 34402 | Ammonia | 0.01 | 0.07 |
| | | Acetone | 0.49 | 0.79 |
| | | VOC | 0.20 | 0.33 |
| | | Methyl acetate | 0.06 | 0.1 |
| | | Methyl formate | 0.04 | 0.07 |
| B-3-19 | Tank 34426 | Ammonia | 0.01 | 0.06 |
| | | Acetone | 0.04 | 0.73 |
| | | VOC | 0.66 | 0.30 |
| | | Methyl acetate | 0.06 | 0.09 |
| | | Methyl formate | 0.03 | 0.06 |
| B-3-20 | Tank 34430 | Acetone | 0.98 | 0.26 |
| | | VOC | 2.59 | 0.06 |
| | | Methyl acetate | 0.09 | 0.09 |
| | | Methyl formate | 0.37 | 0.06 |
| B-3-22 | Tank 96600 | VOC | 0.67 | 0.35 |
| B-3-36 | Tank 22080 | Acetone | 3.99 | 0.03 |
| | | VOC | 2.14 | 0.01 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|------------------|-------------------------|-----------------|------|-------|
| | | Methyl acetate | 0.39 | 0.01 |
| | | Methyl formate | 0.33 | 0.01 |
| | | Ammonia | 1.10 | 0.01 |
| B-3-39 | Tank 22100 | Acetone | 0.01 | 0.01 |
| | | VOC | 0.01 | 0.01 |
| | | SO ₂ | 0.01 | 0.01 |
| B-3-40 | Tank 22119 | Acetone | 0.01 | 0.01 |
| | | VOC | 0.01 | 0.01 |
| | | SO ₂ | 0.01 | 0.01 |
| B-3-41 | Tank 22120 | Acetone | 0.01 | 0.01 |
| | | VOC | 0.01 | 0.01 |
| | | SO ₂ | 0.01 | 0.01 |
| B-3-42 | Tank 22150 | VOC | 0.25 | 0.01 |
| B-3-43 | Tank 22155 | VOC | 0.71 | 0.01 |
| B-3-44 | Tank 34670 | Acetone | 1.24 | 0.01 |
| | | VOC | 0.01 | 0.01 |
| B-3-47 B-3-48 | B-3 Rack Fugitives (5) | SO ₂ | 0.01 | 0.05 |
| | | CO | 0.37 | 1.61 |
| | | Ammonia | 0.16 | 0.70 |
| | | Acetone | 0.01 | 0.02 |
| | | VOC | 0.91 | 3.72 |
| | | Methyl acetate | 0.01 | 0.001 |
| | | Methyl formate | 0.01 | 0.01 |
| | | Methacrylamide | 0.01 | 0.001 |
| B-3-49 | GMAA Rack Fugitives (5) | VOC | 0.86 | 3.78 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|--------|---|-----------------|-------|------|
| B-3-50 | | | | |
| B-3-51 | Scrubber | Acetone | 0.01 | 0.01 |
| | | CO | 0.01 | 0.01 |
| | | SO ₂ | 0.08 | 0.36 |
| B-3-52 | Tank 34276 | Acetone | 0.05 | 0.01 |
| | | VOC | 0.01 | 0.01 |
| B-3-55 | Tanks 34560 and 34730 Acid Residue Tanks | Acetone | 1.28 | 1.2 |
| | | VOC | 6.45 | 6.10 |
| B-3-56 | Tanks 96609 and T-96658 Acetone Cyanohydrin Tanks | Acetone | 2.5 | 1.2 |
| B-3-57 | Tanks 96616 and 96623 Stripped Crude MMA Tanks | VOC | 1.7 | 0.94 |
| B-3-58 | Tanks 22002 and 22003 GMAA Crude Tanks | SO ₂ | 0.01 | 0.01 |
| | | Acetone | 0.69 | 0.30 |
| | | VOC | 0.88 | 0.40 |
| B-3-59 | Tanks 22060 and 22065 GMMA Rundown Tanks | VOC | 0.20 | 0.06 |
| B-3-60 | Tanks 22070 and 22075 GMAA Product Tanks | VOC | 2.29 | 0.13 |
| B-4-2 | Tank 22125 | Acetone | 0.01 | 0.01 |
| | | VOC | 0.01 | 0.02 |
| | | Methyl acetate | 0.01 | 0.01 |
| | | Methyl formate | 0.01 | 0.01 |
| | | Methacrylamide | 0.01 | 0.01 |
| B-4-4 | Tank 33327 | VOC | 31.47 | 0.07 |
| B-4-5 | Tank 33336 | Acetone | 73.79 | 0.01 |
| | | Ammonia | 6.01 | 0.07 |
| | | VOC | 29.57 | 0.02 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|---|-----------------------------|-----------------|-------|------|
| | | Methyl acetate | 9.19 | 0.02 |
| | | Methyl formate | 6.33 | 0.01 |
| B-4-9 | B-4 Rack Fugitives (5) | Acetone | 0.07 | 0.33 |
| | | Ammonia | 0.08 | 0.34 |
| | | CO | 0.07 | 0.30 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 1.08 | 4.72 |
| | | Methyl formate | 0.02 | 0.09 |
| T-96658FU | Tank 99658 | VOC | 0.018 | 0.08 |
| B-3-70 | Tank 34248 Fugitives | Sulfuric acid | 0.01 | 0.01 |
| | | Acetone | 1.58 | 0.01 |
| | | SO ₂ | 0.01 | 0.01 |
| | | VOC | 3.67 | 0.01 |
| <u>Maintenance, Startup, and Shutdown (MSS)</u> | | | | |
| BGMA-MSSTK | Fixed Roof Tanks MSS | Acetone | 4.62 | 0.01 |
| | | Ammonia | 0.06 | 0.01 |
| | | VOC | 28.64 | 0.07 |
| | | Methyl acetate | 0.11 | 0.01 |
| | | Methyl formate | 0.16 | 0.01 |
| | | Sulfuric Acid | 1.09 | 0.01 |
| B-3-9-MSS | AR Tank Roof Maintenance | Acetone | 2.59 | 0.87 |
| | | VOC | 3.63 | 1.22 |
| | | Sulfuric acid | 0.11 | 0.04 |
| BGMA-MSSFR | Floating Roof Tank MSS | VOC | 2.16 | 0.01 |
| BGMA-MSSPH | Pump and Heat Exchanger MSS | Acetone | 0.02 | 0.01 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|------------|------------------------|-----------------|-------|------|
| | | VOC | 0.33 | 0.02 |
| | | Sulfuric acid | 0.02 | 0.01 |
| | | Methyl acetate | 0.02 | 0.01 |
| | | Methyl formate | 0.04 | 0.01 |
| BGMA-DEGAS | Equipment Degassing | Acetone | 0.64 | 0.01 |
| | | Ammonia | 0.24 | 0.01 |
| | | VOC | 19.26 | 0.02 |
| | | CO | 3.19 | 0.01 |
| | | SO ₂ | 0.10 | 0.01 |
| | | Methyl formate | 0.21 | 0.01 |
| B3-MSSLD | Light Ends Loading (6) | Acetone | 23.48 | 0.70 |
| | | Ammonia | 0.22 | 0.01 |
| | | VOC | 5.64 | 0.17 |
| | | Methyl Acetate | 2.52 | 0.08 |
| | | Methyl Formate | 0.80 | 0.02 |
| | Light Ends Loading | Acetone | 1.00 | 0.03 |
| | | Ammonia | 0.08 | 0.01 |
| | | VOC | 0.38 | 0.01 |
| | | Methyl Acetate | 0.13 | 0.01 |
| | | Methyl Formate | 0.08 | 0.01 |
| BGMA-MSSPT | Portable Tanks | VOC | 0.14 | 0.01 |
| B3MISCMSS | Miscellaneous MSS | Acetone | 0.05 | 0.01 |
| | | Ammonia | 0.01 | 0.01 |
| | | VOC | 1.40 | 0.01 |
| | | Sulfuric acid | 0.19 | 0.01 |

Emission Sources - Maximum Allowable Emission Rates

| | | | | |
|--|--|----------------|------|------|
| | | Methyl acetate | 0.01 | 0.01 |
| | | Methyl Formate | 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
 CO - carbon monoxide

Emission Sources - Maximum Allowable Emission Rates

- (4) Compliance with annual emission limits (tons per year) is based on a 12-month rolling period.
- (5) Emission rate is an estimate and is enforceable through compliance with the applicable special condition(s) and permit application representations.
- (6) These allowable emission rates are effective until 180 days after the approval of the permit amendment, PI-1 dated January 2, 2008,

Date: _____