

# EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit Number 19959

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<br>Point No. (1)     | Source<br>Name (2)                                 | Air Contaminant<br>Name (3) | Emission Rates * |       |
|-------------------------------|--|-----------------------------|------------------|-------|
|                               |  |                             | lb/hr            | TPY** |
| Routine Operation             |  |                             |                  |       |
| 085FL1<br>and 146FL2          | Continuous Process Flare<br>and Intermittent Flare | NO <sub>x</sub>             | 29.25            | 18.92 |
|                               |  | CO                          | 57.03            | 31.87 |
|                               |  | VOC (Reagents) (5)          | 0.08             | 0.19  |
|                               |  | VOC                         | 140.48           | 50.75 |
|                               |  | SO <sub>2</sub>             | 0.01             | 0.03  |
|                               |  | HCl                         | 1.80             | 6.73  |
| Start-Up/Shutdown/Maintenance |  |                             |                  |       |
| 085FL1<br>and 146FL2          | Continuous Process Flare<br>and Intermittent Flare | NO <sub>x</sub>             | 28.90            | 1.47  |
|                               |  | CO                          | 57.00            | 2.93  |
|                               |  | VOC (Reagents) (5)          | 1.40             | 0.04  |
|                               |  | VOC                         | 140.38           | 8.37  |
|                               |  | SO <sub>2</sub>             | 0.01             | 0.01  |
|                               |  | HCl                         | 1.80             | 0.01  |
|                               | Al <sub>2</sub> O <sub>3</sub>                     | 106.10                      | 0.22             |       |
| 252BH710                      | Baghouse   | PM                          | 0.71             | 3.11  |
|                               |  | VOC                         | ***              | ***   |
| 252BH725                      | Baghouse   | PM                          | 0.77             | 0.33  |
|                               |  | VOC                         | ***              | ***   |
|                               |  | VOC (Reagent 24)            | 0.03             | 0.12  |
| 252BH730                      | Baghouse   | PM                          | 0.03             | 0.13  |
|                               |  | VOC                         | ***              | ***   |
|                               |  | VOC (Reagent 24)            | 0.01             | 0.01  |
| 252T355                       | Tank Vent  | VOC                         | 0.01             | 0.01  |
| 252T740                       | Tank Vent  | VOC                         | 0.03             | 0.01  |
| 252T741                       | Tank Vent  | VOC                         | 0.01             | 0.01  |
| 252T784                       | Tank Vent  | VOC                         | ***              | ***   |

EMISSIONS SOURCE INFORMATION AND EMISSIONS DATA

| EMISSIONS SOURCE INFORMATION |                       | EMISSIONS DATA           |                  |       |
|------------------------------|-----------------------|--------------------------|------------------|-------|
| DATA                         |                       | AIR CONTAMINANTS         |                  |       |
| Emission Point No. (1)       | Source Name (2)       | Air Contaminant Name (3) | Emission Rates * |       |
|                              |                       |                          | lb/hr            | TPY** |
| 252VC787                     | Tank Vent             | VOC                      | ***              | ***   |
| 252VF786                     | Blower Vent           | VOC                      | ***              | ***   |
| 252VT                        | Vacuum Truck          | VOC                      | 3.97             | 0.03  |
| 252MNT                       | Maintenance           | VOC (Reagents) (6)       | 48.84            | 0.08  |
|                              |                       | VOC                      | 31.63            | 0.33  |
|                              |                       | PM                       | 0.83             | 0.01  |
| 255BH881                     | Baghouse              | PM                       | 0.04             | 0.18  |
|                              |                       | VOC                      | ***              | ***   |
| 255BH841                     | Baghouse              | PM                       | 0.04             | 0.18  |
|                              |                       | VOC                      | ***              | ***   |
| 255BH879                     | Baghouse              | PM                       | 0.77             | 0.34  |
|                              |                       | VOC                      | ***              | ***   |
| 256MTB                       | Vent                  | VOC                      | 1.49             | 0.02  |
|                              |                       | VOC (Reagent 22)         | 0.18             | 0.01  |
| 256S141                      | Scrubber Vent         | VOC (Reagent 17)         | 9.92             | 0.05  |
| 256S241                      | Scrubber Vent         | VOC (Reagent 17)         | 0.31             | 0.01  |
| 256S150                      | Scrubber Vent         | VOC (Reagents) (7)       | 0.18             | 0.03  |
|                              |                       | VOC                      | 2.52             | 0.03  |
|                              |                       | Aluminum Oxide           | 0.03             | 0.01  |
| F252AV1                      | Analyzers (4)         | VOC                      | 0.61             | 2.63  |
| F146FG1                      | Storage Fugitives (4) | VOC                      | 0.70             | 3.07  |
| F036LRPE                     | Loading Rack (4)      | VOC                      | 0.02             | 0.08  |
| F252FG1                      | Process Fugitives (4) | VOC                      | 2.37             | 10.27 |
|                              |                       | CO                       | 0.65             | 2.83  |
| F256FG1                      | Wastewater (4)        | VOC                      | 122.40           | 5.59  |

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|---------------------------|--------------------|-----------------------------|------------------|-------|
|                           |                    |                             | lb/hr            | TPY** |
| F256FG2                   | Fugitives (4)      | VOC (Reagents) (8)          | 0.35             | 1.53  |
|                           | VOC                |                             | 1.24             | 5.41  |

- (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<sub>x</sub> - total oxides of nitrogen  
 SO<sub>2</sub> - sulfur dioxide  
 PM - particulate matter, suspended in the atmosphere, including PM<sub>10</sub>.  
 PM<sub>10</sub> - 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
- (4) Fugitive emissions are an estimate only and should not be considered as maximum allowable emission rates.
- (5) Reagents include Reagent 9, 12, 18, 22, and 23. All reagent names are confidential.
- (6) Reagents include Reagent 9, 12, 17, and 18. All reagent names are confidential.
- (7) Reagents include Reagents 12, 14, and 15. All reagent names are confidential.
- (8) Reagents include Reagents 9, 12, 14, 17, 18, 22, and 23. All reagent names are confidential.

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

Hrs/day \_\_\_\_ Days/week \_\_\_\_ Weeks/year \_\_\_\_ or Hrs/year 8,760

\*\* Compliance with the annual limits shall be based on a 12-month rolling period.

\*\*\* The combined maximum allowable emission rates for EPNs 252BH710, 252BH725, 252BH730, 252T784, 252VC787, 252 VF786, 255BH841, 255BH879, and 255BH881 are 6.38 pounds per hour and 27.93 tons per year of VOC.

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AIR CONTAMINANTS

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| Emission<br>Point No. (1) | Source<br>Name (2) | Air Contaminant<br>Name (3) | <u>Emission Rates *</u> |       |
|---------------------------|--------------------|-----------------------------|-------------------------|-------|
|                           |                    |                             | lb/hr                   | TPY** |

Dated May 16, 2006