

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 4445

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)lb/hr | Emission Rates * |      |
|---------------------------|---------------------------|----------------------------------|------------------|------|
|                           |                           |                                  | TPY              |      |
| VS-201                    | Carbon Dioxide Purge Vent | (Maintenance Use Only)           |                  |      |
| VS-202                    | Flare                     | VOC                              | 10.2             | 41.4 |
|                           |                           | NO <sub>x</sub>                  | 0.85             | 3.4  |
|                           |                           | CO                               | 6.15             | 24.7 |
| VS-205                    | Inhibitor System Vent     | VOC                              | 5.4              | 0.47 |
| VS-206                    | Tank Scrubber             | VOC                              | 14.18            | 4.58 |
| VS-207                    | Tank Scrubber             | VOC                              | 1.63             | 0.81 |
| VS-208                    | Tank Scrubber             | VOC                              | 0.15             | 0.35 |
| VS-209                    | Tank Scrubber             | VOC                              | 0.15             | 0.35 |
| VS-212                    | Vent Scrubber             | VOC                              | 0.08             | 0.33 |
| VS-214                    | Ethylene Skid             | (Maintenance Use Only)           |                  |      |
| VS-215                    | Ethylene Skid             | (Maintenance Use Only)           |                  |      |
| VS-216                    | Marine Loading Flare      | VOC                              | 3.0              | 0.70 |
|                           |                           | NO <sub>x</sub>                  | 0.2              | 0.04 |
|                           |                           | CO                               | 1.6              | 0.37 |
| VS-315                    | Polymer Tanks             | VOC                              | 28.5             | 12.7 |
| VS-317                    | Vent Scrubber             | VOC                              | 1.2              | 4.7  |
| VS-318                    | Vent Scrubber             | VOC                              | 4.9              | 20.1 |
| VS-319                    | Vent Scrubber             | VOC                              | 0.1              | 0.6  |

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|---------------------------|------------------------|----------------------------------|------------------|-------|
|                           |                        |                                  | TPY              |       |
| VS-320                    | Vent Scrubber          | VOC                              | 0.2              | 0.8   |
| VS-329                    | Fluidizing Blower Vent | VOC                              | 3.86             | 16.9  |
|                           |                        | PM <sub>10</sub>                 | <0.01            | <0.01 |
| VS-331                    | Hopper Car Blower Vent | VOC                              | 5.56             | 24.4  |
|                           |                        | PM <sub>10</sub>                 | 7.0              | 7.6   |
| VS-332                    | Hopper Car Blower Vent | VOC                              | 0.67             | 2.81  |
|                           |                        | PM <sub>10</sub>                 | <0.01            | 0.04  |
| VS-336                    | C and W Tank           | VOC                              | 31.0             | 9.0   |
| VS-340                    | Tank                   | VOC                              | 13.0             | 0.9   |
| VS-341                    | Tank                   | VOC                              | 7.6              | 1.5   |
| VS-342                    | Catalyst Day Tank      | VOC                              | 30.7             | 6.0   |
| VS-343                    | Storage Tank           | VOC                              | 23.9             | 0.4   |
| VS-344                    | Storage Tank           | VOC                              | 12.4             | 0.2   |
| VS-362                    | Fluidizing Blower Vent | VOC                              | 3.86             | 16.9  |
|                           |                        | PM <sub>10</sub>                 | <0.01            | <0.01 |
| VS-363                    | Bagging Blender Vent   | VOC                              | 0.25             | 1.09  |
|                           |                        | PM <sub>10</sub>                 | <0.01            | <0.01 |
| VS-364                    | Additives Blender Vent | VOC                              | 0.05             | 0.24  |
|                           |                        | PM <sub>10</sub>                 | <0.01            | <0.01 |
| VS-365                    | Storage Tank           | VOC                              | 23.9             | 0.20  |
| VS-366                    | Washwater Tank         | VOC                              | 12.0             | 0.2   |
| VS-367                    | Storage Tank           | VOC                              | 30.0             | <0.1  |

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|---------------------------|--|----------------------------------|------------------|-------|
|                           |  |                                  | TPY              |       |
| VS-368                    | Seal Flush Pot Vent                      | VOC                              | 1.4              | <0.1  |
| VS-369                    | Condensate Receiver                      | VOC                              | 3.5              | <0.1  |
| VS-371                    | Condensate Receiver                      | VOC                              | 0.10             | <0.1  |
| VS-372                    | Dry Products Dust Collector Vent<br>0.03 |                                  | PM <sub>10</sub> | <0.01 |
| VS-373                    | Process Tank                             | VOC                              | 13.3             | 0.2   |
| VS-374                    | Process Tank                             | VOC                              | 36.7             | <0.1  |
| VS-375                    | Process Tank                             | VOC                              | 0.9              | <0.1  |
| VS-376                    | Dry Products Scrubber                    | VOC                              | 0.52             | 1.70  |
| VS-377                    | Dust Collector Vent                      | PM <sub>10</sub>                 | <0.13            | <0.25 |
| VS-378                    | Fines Recycle Fan Vent                   | PM <sub>10</sub>                 | 0.03             | <0.01 |
| VS-379                    | Finished Product Fan Vent                | PM <sub>10</sub>                 | 0.03             | <0.01 |
| VS-380                    | Decanter Vent                            | VOC                              | <0.1             | <0.1  |
| VS-381                    | Cooling Tower (4)                        | VOC                              | 0.03             | 0.13  |
| VS-382                    | WW Holding Pond                          | VOC                              | 2.52             | 1.20  |
| VS-400                    | Fugitives (4)                            | VOC                              | 22.82            | 99.97 |

- (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 General Rule 101.1  
 NO<sub>x</sub> - total oxides of nitrogen  
 CO - carbon monoxide  
 PM<sub>10</sub> - particulate matter less than 10 microns

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(4) Fugitive emissions are an estimate only and should not be considered as a maximum allowable emission rate.

\* 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

Dated\_\_\_\_\_