## Emission Sources - Maximum Allowable Emission Rates

## Permit Number 98014

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

| <b>Emission Point No. (1)</b> | Source Name (2)   | Air Contaminant Name (3) | Emission Rates (6) |         |
|-------------------------------|---|--------------------------|--------------------|---------|
|                               |   |                          | lbs/hour           | TPY (4) |
| la - IIb                      | Dry Hammermill and<br>Cooler Air Aspiration<br>System RTO Stack | PM                       | 4.25               | 16.99   |
|                               |   | PM <sub>10</sub>         | 4.25               | 16.99   |
|                               |   | PM <sub>2.5</sub>        | 4.25               | 16.99   |
|                               |   | VOC                      | 6.55               | 26.25   |
|                               |   | со                       | 21.98              | 87.93   |
|                               |   | NO <sub>x</sub>          | 13.57              | 54.29   |
|                               |   | SO <sub>2</sub>          | 1.08               | 4.01    |
| Illa                          | Wet Mill Aspiration<br>Cyclone 1 Stack                          | PM                       | 1.46               | 5.82    |
|                               |   | PM <sub>10</sub>         | 0.32               | 1.29    |
|                               |   | PM <sub>2.5</sub>        | 0.28               | 1.10    |
| IIIb                          | Wet Mill Aspiration<br>Cyclone 2 Stack                          | PM                       | 1.46               | 5.82    |
|                               |   | PM <sub>10</sub>         | 0.32               | 1.29    |
|                               |   | PM <sub>2.5</sub>        | 0.28               | 1.10    |
| IIIc                          | Wet Mill Aspiration<br>Cyclone 3 Stack                          | PM                       | 1.46               | 5.82    |
|                               |   | PM <sub>10</sub>         | 0.32               | 1.29    |
|                               |   | PM <sub>2.5</sub>        | 0.28               | 1.10    |
| IIId                          | Wet Mill Aspiration<br>Cyclone 4 Stack                          | PM                       | 1.46               | 5.82    |
|                               |   | PM <sub>10</sub>         | 0.32               | 1.29    |
|                               |   | PM <sub>2.5</sub>        | 0.28               | 1.10    |
| Ille                          | Wet Mill Aspiration<br>Cyclone 5 Stack                          | PM                       | 1.46               | 5.82    |
|                               |   | PM <sub>10</sub>         | 0.32               | 1.29    |
|                               |   | PM <sub>2.5</sub>        | 0.28               | 1.10    |

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| IIIf Wet Mill Cyclone | Wet Mill Aspiration                    | PM                | 1.46  | 5.82   |
|-----------------------|--|-------------------|-------|--------|
|                       | Cyclone 6 Stack                        | PM <sub>10</sub>  | 0.32  | 1.29   |
|                       |  | PM <sub>2.5</sub> | 0.28  | 1.10   |
| IIIg                  | Wet Mill Aspiration<br>Cyclone 7 Stack | PM                | 1.46  | 5.82   |
|                       | Cyclone / Stack                        | PM <sub>10</sub>  | 0.32  | 1.29   |
|                       |  | PM <sub>2.5</sub> | 0.28  | 1.10   |
| IV                    | Dryers 1 and 2 WESP and RTO Stack      | PM                | 4.09  | 17.90  |
|                       | and KTO Stack                          | PM <sub>10</sub>  | 4.09  | 17.90  |
|                       |  | PM <sub>2.5</sub> | 4.09  | 17.90  |
|                       |  | VOC               | 14.80 | 64.90  |
|                       |  | СО                | 22.30 | 97.70  |
|                       |  | NO <sub>x</sub>   | 40.04 | 175.40 |
|                       |  | SO <sub>2</sub>   | 1.08  | 4.01   |
| VII                   | Starch Silo Vent                       | РМ                | <0.01 | <0.01  |
|                       |  | PM <sub>10</sub>  | <0.01 | <0.01  |
|                       |  | PM <sub>2.5</sub> | <0.01 | <0.01  |
| IXa                   | Storage Silo 1 Vent                    | PM                | 0.16  | 0.65   |
|                       |  | PM <sub>10</sub>  | 0.08  | 0.31   |
|                       |  | PM <sub>2.5</sub> | 0.01  | 0.05   |
| IXb                   | Storage Silo 2 Vent                    | РМ                | 0.16  | 0.65   |
|                       |  | PM <sub>10</sub>  | 0.08  | 0.31   |
|                       |  | PM <sub>2.5</sub> | 0.01  | 0.05   |
| IXc                   | Storage Silo 3 Vent                    | РМ                | 0.16  | 0.65   |
|                       |  | PM <sub>10</sub>  | 0.08  | 0.31   |
|                       |  | PM <sub>2.5</sub> | 0.01  | 0.05   |
| IXd                   | Storage Silo 4 Vent                    | PM                | 0.16  | 0.65   |
|                       |  | PM <sub>10</sub>  | 0.08  | 0.31   |

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|  | PM <sub>2.5</sub>   | 0.01          | 0.05   |
| Rechipper (5)  | РМ  | 0.02          | 0.07   |
|  | PM <sub>10</sub>  | <0.01         | 0.02   |
|  | PM <sub>2.5</sub>   | <0.01         | <0.01  |
| Chipper (5)  | РМ  | 0.04          | 0.15   |
|  | PM <sub>10</sub>  | 0.01          | 0.05   |
|  | PM <sub>2.5</sub>   | <0.01         | 0.01   |
| Debarker (5)   | РМ  | 0.29          | 1.16   |
|  | PM <sub>10</sub>  | 0.13          | 0.53   |
|  | PM <sub>2.5</sub>   | 0.03          | 0.13   |
| Material Handling (5)  | РМ  | 1.37          | 5.88   |
|  | PM <sub>10</sub>  | 0.68          | 2.91   |
|  | PM <sub>2.5</sub>   | 0.10          | 0.44   |
| Diesel Tank (5)  | voc   | <0.01         | <0.01  |
| Blowing and Sweeping   | РМ  | <0.01         | <0.01  |
| (3)  | PM <sub>10</sub>  | <0.01         | <0.01  |
|  | PM <sub>2.5</sub>   | <0.01         | <0.01  |
| Site-Wide HAPs   | Individual HAP  |               | <10.00   |
|  | Total HAPs  |               | <25.00   |
|  | Chipper (5)  Debarker (5)  Material Handling (5)  Diesel Tank (5)  Blowing and Sweeping (5) | Rechipper (5) | Rechipper (5)       PM       0.02         PM <sub>10</sub> <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<sub>x</sub> - total oxides of nitrogen

SO<sub>2</sub> - sulfur dioxide

PM - total particulate matter, suspended in the atmosphere, including PM<sub>10</sub> and PM<sub>2.5</sub>, as represented

PM<sub>10</sub> - total particulate matter equal to or less than 10 microns in diameter, including PM<sub>2.5</sub>, as

represented

PM<sub>2.5</sub> - particulate matter equal to or less than 2.5 microns in diameter

CO - carbon monoxide

HAP - hazardous air pollutant as listed in § 112(b) of the Federal Clean Air Act or Title 40 Code of Federal Regulations Part 63, Subpart C

- (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) Planned startup and shutdown emissions are included. Planned maintenance has been reviewed and included in the MAERT for specific maintenance activities identified in the permit Special Conditions. Any other maintenance activities are not authorized by this permit, but will be authorized separately.

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| Date: | April 05, 2019 |
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