

## EMISSION SOURCES - MAXIMUM ALLOWABLE EMISSION RATES

Permit No. 8068

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) | <u>Emission Rates</u> |            |
|---------------------------|------------------------|-----------------------------|-----------------------|------------|
|                           |                        |                             | <u>lb/hr</u>          | <u>TPY</u> |
| 79-1                      | Lime Kiln Scrubber (5) | TSP                         | 22.70                 | 96.7       |
|                           |                        | PM <sub>10</sub>            | 22.70                 | 96.7       |
|                           |                        | NO <sub>x</sub>             | 22.70                 | 96.7       |
|                           |                        | CO                          | 22.90                 | 97.6       |
|                           |                        | VOC                         | 7.50                  | 32.0       |
|                           |                        | SO <sub>2</sub>             | 5.40                  | 23.0       |
|                           |                        | TRS                         | 0.90                  | 3.8        |
| 79-2                      | Slaker (5)             | TSP                         | 0.50                  | 2.2        |
|                           |                        | PM <sub>10</sub>            | 0.50                  | 2.2        |
|                           |                        | TRS                         | 0.10                  | 0.3        |
|                           |                        | VOC                         | 0.30                  | 1.3        |
| 79-3                      | Lime Blower (5)        | TSP                         | 0.40                  | 1.7        |
|                           |                        | PM <sub>10</sub>            | 0.40                  | 1.7        |
| 79-4                      | Mud Filter Pump (5)    | TSP                         | 0.50                  | 2.2        |
|                           |                        | PM <sub>10</sub>            | 0.50                  | 2.2        |
|                           |                        | VOC                         | 0.26                  | 1.1        |
| 79-5                      | Mud Filter Hood (5)    | TSP                         | 0.50                  | 2.2        |
|                           |                        | PM <sub>10</sub>            | 0.50                  | 2.2        |
|                           |                        | VOC                         | 0.23                  | 1.0        |
| 79-6                      | Causticizer Tanks (5)  | TSP                         | 0.50                  | 2.2        |
|                           |                        | PM <sub>10</sub>            | 0.50                  | 2.2        |
|                           |                        | VOC                         | 0.07                  | 0.3        |

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| Emission<br>*        | Source                                  | Air Contaminant                | <u>Emission Rates</u> |            |
|----------------------|---|--------------------------------|-----------------------|------------|
| <u>Point No. (1)</u> | <u>Name (2)</u>                         | <u>Name (3)</u>                | <u>lb/hr</u>          | <u>TPY</u> |
| 81-1                 | Recovery Boiler (6)                     | TSP                            | 50.50                 | 218.1      |
|                      |   | PM <sub>10</sub>               | 50.50                 | 218.1      |
|                      |   | NO <sub>x</sub>                | 55.00                 | 237.6      |
|                      |   | CO                             | 112.50                | 486.0      |
|                      |   | VOC                            | 20.27                 | 88.8       |
|                      |   | SO <sub>2</sub>                | 206.00                | 890.0      |
|                      |   | TRS                            | 2.70                  | 11.8       |
|                      |   | H <sub>2</sub> SO <sub>4</sub> | 4.60                  | 20.0       |
| 81-2                 | Smelt Tank (6)                          | TSP                            | 8.30                  | 36.0       |
|                      |   | PM <sub>10</sub>               | 8.30                  | 36.0       |
|                      |   | SO <sub>2</sub>                | 2.50                  | 10.8       |
|                      |   | TRS                            | 1.40                  | 6.0        |
|                      |   | VOC                            | 10.42                 | 45.0       |
| 89-1                 | Blow Heat System (5)                    | TRS                            | 0.23                  | 1.0        |
|                      |   | VOC                            | 7.04                  | 30.0       |
| 89-2                 | Brown Stock Washers (4) (6)<br>43.0     | TRS                            |                       | 9.82       |
|                      |   | VOC                            | 12.70                 | 55.0       |
| G-1                  | Power Boiler 11 (7)                     | TSP                            | 63.90                 | 280.0      |
|                      |   | PM <sub>10</sub>               | 63.90                 | 280.0      |
|                      |   | NO <sub>x</sub>                | 81.00                 | 355.0      |
|                      |   | CO                             | 188.60                | 826.0      |
|                      |   | VOC                            | 54.10                 | 237.0      |
|                      |   | SO <sub>2</sub>                | 5.40                  | 23.7       |
|                      |   | H <sub>2</sub> SO <sub>4</sub> | 0.23                  | 1.0        |
| G-2                  | Power Boilers No. 4, 5,<br>8, and 9 (7) | TSP                            | *                     | 12.0       |
|                      |   | PM <sub>10</sub>               | *                     | 12.0       |
|                      |   | NO <sub>x</sub>                | *                     | 1321.0     |
|                      |   | CO                             | *                     | 96.1       |
|                      |   | VOC                            | *                     | 21.9       |
|                      |   | SO <sub>2</sub>                | *                     | 1.4        |

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|----------------------|-----------------|-----------------|-----------------------|------------|
| <u>Point No. (1)</u> | <u>Name (2)</u> | <u>Name (3)</u> | <u>lb/hr</u>          | <u>TPY</u> |

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## AIR CONTAMINANTS DATA

| Emission<br>*<br>Point No. (1) | Source<br>Name (2)      | Air Contaminant<br>Name (3) | Emission Rates |       |
|--------------------------------|-------------------------|-----------------------------|----------------|-------|
|                                |                         |                             | lb/hr          | TPY   |
| G-5                            | Groundwood Mill (4) (7) | VOC                         | 226.20         | 977.0 |
| G-6                            | Turbine (7)             | TSP                         | 1.07           | 4.7   |
|                                |                         | PM <sub>10</sub>            | 1.07           | 4.7   |
|                                |                         | NO <sub>x</sub>             | 118.70         | 520.0 |
|                                |                         | CO                          | 8.63           | 37.8  |
|                                |                         | VOC                         | 0.59           | 2.6   |
|                                |                         | SO <sub>2</sub>             | 0.14           | 0.6   |

\* The annual emission rates only are listed for these grandfathered boilers (for PSD netting purposes). Compliance is based on annual fuel consumption.

- (1) Emission point identification.
- (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
  - SO<sub>2</sub> - sulfur dioxide
  - TSP - total suspended particulate, including PM<sub>10</sub>
  - PM<sub>10</sub> - particulate matter less than 10 microns in diameter
  - CO - carbon monoxide
  - TRS - total reduced sulfur
  - H<sub>2</sub>SO<sub>4</sub> - sulfuric acid mist
- (4) Fugitive emissions are an estimate only.
- (5) Emission rates are based on 8,520 hours/year of operation.
- (6) Emission rates are based on 8,640 hours/year of operation.
- (7) Emission rates are based on 8,760 hours/year of operation.

The facilities are limited to 600 tons/day of unbleached pulp, based on a monthly average.

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|----------------------|-----------------|-----------------|-----------------------|------------|
| <u>Point No. (1)</u> | <u>Name (2)</u> | <u>Name (3)</u> | <u>lb/hr</u>          | <u>TPY</u> |

Dated \_\_\_\_\_