



*"...meeting community needs...enhancing quality of life."*

Department of Utilities  
 Wastewater Treatment Plant  
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**TO:** Chairman Joe Martin and Members of the Utilities Committee

**CC:** Utilities Director Chris Shaw

**FROM:** Environmental Programs Coordinator Brian Kreski

**DATE:** January 23, 2015

**RE:** **2014 Industrial Quality and Quantity (Q & Q) and Receiving Station Year End Summaries**

This memo serves as a summary and year-end revenue report for both the Industrial (i.e., Quality and Quantity) and Receiving Station Programs. The report identifies the program, the total waste to that program and the revenues generated.

**Quantity and Quality Program:**

The Appleton Wastewater Treatment Plant (AWWTP) did not experience large production increases or changes to the ten (10) permitted industries in 2014. Billings to Industry and the Receiving Station are based on pollutant strength and volume of waste. Table 1 lists the industrial loadings and revenue for 2014 and four prior years.

**Table 1: Loading/Revenue Summary of Industrial Users since 2010**

| <b>Year</b>           | <b>Flow (MG)</b> | <b>BOD (lbs)</b> | <b>TSS (lbs)</b>  | <b>Revenue</b>     |
|-----------------------|------------------|------------------|-------------------|--------------------|
| 2010                  | 378.86           | 1,710,730        | 9,872,632         | \$2,269,567        |
| 2011                  | 438.38           | 3,095,448        | 14,126,146        | \$3,398,197        |
| 2012                  | 635.95           | 3,303,954        | 15,809,647        | \$4,074,024        |
| 2013                  | 674.80           | 3,465,388        | 14,994,912        | \$4,093,431        |
| 2014                  | 643.57           | 4,308,519        | 13,459,520        | \$4,167,492        |
| <b>5 Year Average</b> | <b>554.31</b>    | <b>3,176,808</b> | <b>13,652,571</b> | <b>\$3,600,542</b> |

2014 Industrial Rate (Jan-Dec): Flow \$1.73/1,000 gal; BOD \$35.48/100 lbs; TSS \$11.26/100 lbs

**Hauled Waste Program:**

The AWWTP has been accepting hauled wastes from outside the Appleton sewer service area to offset community costs since 1999. In 2010 a tier rate structure (see table 3) was adopted to allow the AWWTP to bill for treatment costs by pollutant strength. The measure parameter used for pollutant strength is Total Suspended Solids (TSS). The Receiving Station’s loading and revenue increased in 2014 due to additional permitted material as well as unseasonable weather patterns which diverted material from land spreading activities to the AWWTP. Increased loading affects the biological treatment process and to sustain treatment there are direct costs from electrical, natural gas, and chemical usage. A proposed rate increase for July 2015 for Receiving Station waste haulers will offset those treatment costs.

**Table 2: Loadings & Revenues Summary for High and Low Receiving Station Wastes**

| Year                  | Headworks     |                  |            | Receiving Station |                  |            | Total          |                  |
|-----------------------|---------------|------------------|------------|-------------------|------------------|------------|----------------|------------------|
|                       | Tons          | Revenue          | %*         | Tons              | Revenue          | %*         | Tons           | Revenue          |
| <b>2010**</b>         | 71,516        | \$339,701        | 53%        | 31,505            | \$303,521        | 47%        | 103,021        | \$643,222        |
| <b>2011</b>           | 51,171        | \$239,512        | 45%        | 31,822            | \$348,565        | 55%        | 82,984         | \$588,077        |
| <b>2012</b>           | 36,056        | \$186,512        | 28%        | 50,729            | \$480,388        | 72%        | 86,785         | \$666,900        |
| <b>2013</b>           | 51,782        | \$245,965        | 38%        | 31,818            | \$373,057        | 62%        | 94,135         | \$643,934        |
| <b>2014</b>           | 96,358        | \$413,882        | 39%        | 59,959            | \$636,198        | 61%        | 156,317        | \$1,050,080      |
| <b>5-Year Average</b> | <b>61,377</b> | <b>\$285,114</b> | <b>41%</b> | <b>34,185</b>     | <b>\$428,346</b> | <b>59%</b> | <b>104,648</b> | <b>\$718,443</b> |

\* Represents % of total yearly revenue.

\*\* 2010 first year of tier rate structure.

**Table 3: 2014 Tier Rate Structure**

| Tier | TSS (mg/l)      | Rate (2010-2014) |
|------|-----------------|------------------|
| 1    | (<200)          | \$4.75           |
| 2    | (200-9,999)     | \$6.60           |
| 3    | (10,000-29,999) | \$10.80          |
| 4    | (30,000-40,000) | \$15.00          |
| 5    | (>40,000)       | \$20.00          |

**Summary:**

The Industrial users and the Receiving Station program are both trending with increased revenues when compared to their five year averages. If you would like further information regarding these programs feel free to contact Environmental Programs Coordinator Brian Kreski at ph: 832-5945.