

College Township Water Authority  
2017 Budget

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# Operating Budget Summary

COLLEGE TOWNSHIP WATER AUTHORITY  
YEAR 2017 OPERATING BUDGET SUMMARY

**OPERATING BUDGET SUMMARY**

|   | 2009<br>AUDITED | 2010<br>AUDITED | 2011<br>AUDITED | 2012<br>AUDITED | 2013<br>AUDITED | 2014<br>AUDITED | 2015<br>AUDITED | 2016           |                | 2017           |                       |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|----------------|----------------|-----------------------|
|   |                 |                 |                 |                 |                 |                 |                 | BUDGET         | YTD 11/30      | EXPECTED       | PROPOSED              |
| <b>OPERATING INCOME</b>                                 |                 |                 |                 |                 |                 |                 |                 |                |                |                |                       |
| Water System Revenues                                   | 1,349,488       | 1,535,441       | 1,563,037       | 1,648,202       | 1,672,358       | 1,571,681       | 1,645,614       | 1,631,827      | 1,358,972      | 1,670,100      | 1,643,369 (1)         |
| <b>OPERATING EXPENSES</b>                               |                 |                 |                 |                 |                 |                 |                 |                |                |                |                       |
| Purification and Pumping                                | 130,872         | 135,815         | 125,184         | 111,752         | 112,442         | 94,433          | 94,439          | 106,975        | 81,991         | 99,175         | 101,550               |
| Distribution System                                     | 194,766         | 259,475         | 253,992         | 264,360         | 208,239         | 234,987         | 230,687         | 240,266        | 225,965        | 254,987        | 248,565               |
| General Expense   | 338,010         | 359,875         | 397,731         | 415,601         | 441,923         | 486,995         | 467,604         | 487,850        | 408,099        | 456,164        | 470,302               |
| <b>TOTAL OPERATING EXPENSES</b>                         | <b>663,648</b>  | <b>755,165</b>  | <b>776,907</b>  | <b>791,713</b>  | <b>762,604</b>  | <b>816,415</b>  | <b>792,730</b>  | <b>835,091</b> | <b>716,055</b> | <b>810,326</b> | <b>820,417 (2)</b>    |
| <b>OPERATING MARGIN</b>                                 | <b>685,840</b>  | <b>780,276</b>  | <b>786,130</b>  | <b>856,489</b>  | <b>909,754</b>  | <b>755,266</b>  | <b>852,884</b>  | <b>796,736</b> | <b>642,917</b> | <b>859,774</b> | <b>822,952</b>        |
| <b>NON-OPERATING INCOME (EXPENSE)</b>                   | <b>25,223</b>   | <b>6,027</b>    | <b>4,824</b>    | <b>949</b>      | <b>7,383</b>    | <b>8,679</b>    | <b>8,384</b>    | <b>5,250</b>   | <b>1,366</b>   | <b>1,750</b>   | <b>10,000 (3)</b>     |
| <b>INCOME BEFORE DEBT SERVICE</b>                       | <b>711,063</b>  | <b>786,303</b>  | <b>790,954</b>  | <b>857,438</b>  | <b>917,137</b>  | <b>763,945</b>  | <b>861,268</b>  | <b>801,986</b> | <b>644,283</b> | <b>861,524</b> | <b>832,952</b>        |
| <b>LESS: Debt Service Requirement</b>                   |                 |                 |                 |                 |                 |                 |                 |                |                |                | <b>717,044 (4)</b>    |
| <b>AVAILABLE FOR CAPITAL, CONTINGENCIES AND RESERVE</b> |                 |                 |                 |                 |                 |                 |                 |                |                |                | <b><u>115,908</u></b> |

**CALCULATION OF COMPLIANCE WITH LOAN AGREEMENT COVERAGE REQUIREMENT**

----- BUDGETED REVENUES MUST EQUAL OR EXCEED THE TOTAL OF 1) OPERATING EXPENSES AND 2) 110% OF DEBT SERVICE -----

This calculation is required by the Loan Agreement securing the 2015 Note and is referred to as the calculation of required coverage.

|                                       |                         |
|---------------------------------------|-------------------------|
| Water System Revenues                 | 1,643,369 (1)           |
| Investment Income                     | <u>10,000 (3)</u>       |
|                                       | <b>1,653,369</b>        |
| Administrative and operating expenses | 820,417 (2)             |
| Debt Service                          | 717,044 (4)             |
| 10% of Debt Service                   | <u>71,704</u>           |
|                                       | <b><u>1,609,165</u></b> |
| Excess Coverage                       | <b><u>44,204</u></b>    |

# Operating Revenues

OPERATING INCOME

|   | 2009             | 2010             | 2011             | 2012             | 2013             | 2014             | 2015             | 2016             |                  | 2017             |                  |
|---|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|
|   | AUDITED          | AUDITED          | AUDITED          | AUDITED          | AUDITED          | AUDITED          | AUDITED          | BUDGET           | YTD 11/30        | EXPECTED         | PROPOSED         |
| <b>WATER SYSTEM REVENUES</b>                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| <b>METERED WATER REVENUES</b>                 |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 378.110 Metered Water Revenues - Residential  | 632,052          | 717,258          | 712,142          | 708,432          | 751,800          | 722,125          | 816,931          | 815,725          | 679,113          | 834,000          | 837,500          |
| 378.120 Metered Water Revenues - Commercial   | 243,537          | 272,542          | 285,115          | 294,954          | 302,268          | 283,528          | 325,376          | 331,650          | 269,735          | 326,000          | 328,300          |
| 378.130 Metered Water Revenues - Industrial   | 71,793           | 71,189           | 75,610           | 71,704           | 72,095           | 53,253           | 70,739           | 71,020           | 56,695           | 79,000           | 80,400           |
| 378.140 Metered Water Revenues - Other Public | 10,005           | 18,354           | 16,894           | 20,193           | 27,831           | 21,837           | 27,615           | 26,130           | 22,741           | 26,000           | 26,800           |
| 378.141 Metered Water Revenues - SCI Rockview | 103,272          | 125,000          | 128,500          | 131,708          | 136,125          | 136,500          | 18,261           | 0                | 0                | 0                | 0                |
| 378.142 Metered Water Revenues - UAJA BRW     | 44,001           | 40,486           | 61,174           | 62,446           | 78,424           | 67,938           | 69,905           | 69,598           | 69,407           | 70,000           | 70,072           |
| <b>Subtotal</b>                               | <b>1,104,660</b> | <b>1,244,829</b> | <b>1,279,435</b> | <b>1,289,437</b> | <b>1,368,543</b> | <b>1,285,181</b> | <b>1,328,827</b> | <b>1,314,123</b> | <b>1,097,691</b> | <b>1,335,000</b> | <b>1,343,072</b> |
| <b>FIRE SERVICES</b>                          |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 378.405 Fire Services - CTWA Hydrants         | 69,659           | 84,249           | 85,045           | 85,300           | 85,885           | 86,531           | 94,579           | 95,004           | 71,340           | 95,300           | 96,198           |
| 378.410 Fire Services - Private Hydrants      | 5,037            | 5,081            | 4,773            | 4,681            | 4,681            | 4,681            | 5,725            | 4,746            | 4,437            | 6,200            | 5,421            |
| 378.420 Fire Services - Sprinkler Fire Lines  | 136,210          | 146,933          | 149,425          | 150,088          | 152,112          | 153,123          | 167,796          | 167,704          | 126,269          | 168,100          | 169,178          |
| <b>Subtotal</b>                               | <b>210,906</b>   | <b>236,263</b>   | <b>239,243</b>   | <b>240,069</b>   | <b>242,678</b>   | <b>244,335</b>   | <b>268,100</b>   | <b>267,454</b>   | <b>202,046</b>   | <b>269,600</b>   | <b>270,797</b>   |
| <b>OTHER WATER RELATED REVENUES</b>           |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |                  |
| 378.300 Penalties                             | 14,115           | 13,812           | 13,699           | 14,506           | 16,497           | 16,006           | 15,285           | 14,750           | 11,688           | 15,200           | 15,200           |
| 378.500 Water Main Connection Fees            | 11,943           | 32,761           | 7,619            | 101,456          | 23,874           | 21,081           | 27,671           | 30,000           | 43,999           | 46,000           | 10,000           |
| 378.505 Capital Recovery - SCI Rockview       | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
| 378.510 Meter Sales and Installations         | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                | 0                |
| 380.000 Miscellaneous                         | 7,864            | 7,776            | 23,041           | 2,734            | 20,766           | 5,078            | 5,731            | 5,500            | 3,548            | 4,300            | 4,300            |
| <b>Subtotal</b>                               | <b>33,922</b>    | <b>54,349</b>    | <b>44,359</b>    | <b>118,696</b>   | <b>61,137</b>    | <b>42,165</b>    | <b>48,687</b>    | <b>50,250</b>    | <b>59,235</b>    | <b>65,500</b>    | <b>29,500</b>    |
| <b>TOTAL WATER SYSTEM REVENUES</b>            | <b>1,349,488</b> | <b>1,535,441</b> | <b>1,563,037</b> | <b>1,648,202</b> | <b>1,672,358</b> | <b>1,571,681</b> | <b>1,645,614</b> | <b>1,631,827</b> | <b>1,358,972</b> | <b>1,670,100</b> | <b>1,643,369</b> |

## OPERATING REVENUES

### METERED WATER REVENUE

Effective January 1, 2017, water consumption is proposed to be billed to the majority of its customers for each meter at \$6.70 per 1,000 gallons consumed. This rate is the same as 2016.

**BELLEFONTE INTERCONNECT:** Pursuant to a 2011 interconnection agreement with the Borough of Bellefonte and the Bellefonte Borough Authority, the College Township Water Authority agreed to supply water to the Borough in an emergency only. This agreement was terminated effective January 1, 2016, pursuant to Article 15 of the agreement.

**SCI- ROCKVIEW:** During 2003, the Authority entered into an agreement with the Commonwealth of Pennsylvania whereby the Authority had agreed to provide the Department of Corrections up to 700,000 gallons of potable water daily as a backup water supply. The Commonwealth had committed to a minimum purchase of 50 million gallons of water per year.

This agreement has been terminated and all usage billing ended in July 2015.

**UAJA:** The Authority has amended its agreement with UAJA dated November 18, 2009 which provides for reimbursement to the Authority for Beneficial Reuse Water (BRW) supplied by UAJA and used by customers of the Authority. The reimbursement for BRW used by Cintas will continue to be reimbursed at the Authority's customary rate per thousand gallons less the cost of purification and pumping. The rate adjusts annually, consistent with CTWA rate structure and purification and pumping costs. The rate for 2017 will be \$6.20 per thousand gallons. Reimbursement for Best Western and Redline Speed Shine will be one-half its customary rate per thousand gallons, to be adjusted annually consistent with the Authority's rate structure. Any current or potential customers of the Authority desiring to use beneficial reuse water may only do so with approval of the Authority and College Township. Furthermore, the Authority will determine the reimbursement from UAJA due for these new customers.

The number and types of customers expected to be served by the Authority during 2017, along with the total billed usage for those customer classes, is as shown in the following table:

OPERATING REVENUES

| <u>CUSTOMER CLASS</u>   | <u>NUMBER</u>       | <u>BILLING USAGE (GALLONS)</u> | <u>REVENUE</u>             |
|-------------------------|---------------------|--------------------------------|----------------------------|
| Residential             | 2,452               | 125,000,000                    | \$837,500                  |
| Commercial              | 306                 | 49,000,000                     | 328,300                    |
| Industrial              | 14                  | 12,000,000                     | 80,400                     |
| Other Public            | <u>15</u>           | <u>4,000,000</u>               | <u>26,800</u>              |
|                         | <b>2,787</b>        | <b>190,000,000</b>             | <b>\$ 1,273,000</b>        |
| UAJA – Beneficial Reuse |                     |                                |                            |
| Cintas                  | 1                   | 9,200,000                      | \$56,672                   |
| Redline Speedshine      | 1                   | 3,600,000                      | 12,060                     |
| Best Western Motel      | <u>1</u>            | <u>400,000</u>                 | <u>1,340</u>               |
|                         | <b>3</b>            | <b>13,200,000</b>              | <b>\$70,072</b>            |
| <b>TOTAL</b>            | <b><u>2,790</u></b> | <b><u>203,200,000</u></b>      | <b><u>\$ 1,343,072</u></b> |

**FIRE SERVICES**

The following table reflects the types of fire service, the number of customers utilizing these services, and the revenue to be expected in 2017:

| <u>HYDRANTS</u>                           | <u>NUMBER</u>        | <u>ANNUAL CHARGE</u>        | <u>REVENUE</u>          |
|---|----------------------|-----------------------------|-------------------------|
| Hydrants – Authority owned and maintained | 237                  | \$ 406                      | \$96,198                |
| Hydrants – Privately owned and maintained | 16                   | \$ 339                      | \$ <u>5,421</u>         |
| <b><u>STANDBY FIRE LINES</u></b>          | <b><u>NUMBER</u></b> | <b><u>ANNUAL CHARGE</u></b> | <b><u>REVENUE</u></b>   |
| Sprinkler – 4” fire service               | 20                   | \$ 1,484                    | \$29,678                |
| Sprinkler – 6” fire service               | 23                   | \$ 2,968                    | 68,260                  |
| Sprinkler – 8” fire service               | <u>12</u>            | <u>\$ 5,937</u>             | <u>71,240</u>           |
|   | <b>55</b>            |                             | <b><u>\$169,178</u></b> |

## OPERATING REVENUES

### **PENALTIES**

This account covers the 10% penalty charged to customers who don't pay their bill within 30 days of the billing date.

### **WATER MAIN CONNECTION FEES**

This account is for the revenue generated from customers connecting to the distribution system. The connection fee allows the Authority to recoup its cost to install the new service connection and includes the customer's facilities fee and the tapping fee. The fee is set so as not to exceed that allowed by state law.

### **METER SALES AND INSTALLATIONS**

This item of revenue reflects the charges to customers for the installation of meters, either individuals or in groups (pits) not charged pursuant to a water main connection application.

### **MISCELLANEOUS WATER REVENUES**

This account is for other water system related revenues not accounted for elsewhere. This would include income from reimbursement for cost of repairs to damaged meters, mains, fire hydrants, and any other repairs made by Authority personnel. Reimbursements are paid by companies or individuals damaging our facilities primarily through their neglect.

## Pumping and Purification Expenses

**PURIFICATION AND PUMPING EXPENSES**

|   | 2009<br>AUDITED | 2010<br>AUDITED | 2011<br>AUDITED | 2012<br>AUDITED | 2013<br>AUDITED | 2014<br>AUDITED | 2015<br>AUDITED | 2016<br>BUDGET | 2016<br>YTD 11/30 | 2016<br>EXPECTED | 2017<br>PROPOSED |
|---|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-------------------|------------------|------------------|
| <b><u>PURIFICATION EXPENSE</u></b>                    |                 |                 |                 |                 |                 |                 |                 |                |                   |                  |                  |
| 448.201 Operating Supplies and Exp-Mt Nittany Conta   | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| 448.202 Chemical Purchases                            | 21,323          | 21,460          | 18,299          | 18,335          | 20,157          | 21,056          | 20,594          | 22,000         | 18,828            | 22,000           | 22,000           |
| 448.203 Power Purchased - Mt Nittany Contact Tank     | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| 448.204 Water Analysis                                | 15,243          | 8,685           | 20,055          | 8,411           | 9,875           | 13,037          | 8,758           | 9,500          | 7,690             | 8,500            | 8,500            |
| 448.205 Equipment Maintenance - Mt Nittany Contact    | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| 448.206 Structure Maintenance - Mt Nittany Contact T: | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| <b>TOTAL PURIFICATION</b>                             | <b>36,566</b>   | <b>30,145</b>   | <b>38,354</b>   | <b>26,746</b>   | <b>30,032</b>   | <b>34,093</b>   | <b>29,352</b>   | <b>31,500</b>  | <b>26,518</b>     | <b>30,500</b>    | <b>30,500</b>    |
| <b><u>PUMPING EXPENSE</u></b>                         |                 |                 |                 |                 |                 |                 |                 |                |                   |                  |                  |
| <b>PUDDINTOWN STATION</b>                             |                 |                 |                 |                 |                 |                 |                 |                |                   |                  |                  |
| 448.311 Operating Supplies and Expense                | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| 448.312 Power Purchased                               | 180             | 56              | 12              | 4               | 0               | 0               | 0               | 50             | 67                | 75               | 75               |
| 448.313 Equipment Maintenance                         | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| 448.314 Structure Maintenance                         | 204             | 204             | 204             | 0               | 804             | 204             | 204             | 250            | 0                 | 125              | 250              |
| <b>Subtotal</b>                                       | <b>384</b>      | <b>260</b>      | <b>216</b>      | <b>4</b>        | <b>804</b>      | <b>204</b>      | <b>204</b>      | <b>300</b>     | <b>67</b>         | <b>200</b>       | <b>325</b>       |
| <b>MATILDA BOOSTER STATION</b>                        |                 |                 |                 |                 |                 |                 |                 |                |                   |                  |                  |
| 448.321 Operating Supplies and Expense                | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| 448.322 Power Purchased                               | 1,315           | 883             | 805             | 656             | 1,260           | 1,251           | 1,667           | 1,625          | 1,525             | 1,625            | 1,625            |
| 448.323 Equipment Maintenance                         | 0               | 0               | 25              | 0               | 4,826           | 0               | 0               | 250            | 0                 | 125              | 250              |
| 448.324 Structure Maintenance                         | 0               | 952             | 0               | 0               | 445             | 0               | 0               | 150            | 0                 | 75               | 150              |
| <b>Subtotal</b>                                       | <b>1,315</b>    | <b>1,835</b>    | <b>830</b>      | <b>656</b>      | <b>6,531</b>    | <b>1,251</b>    | <b>1,667</b>    | <b>2,025</b>   | <b>1,525</b>      | <b>1,825</b>     | <b>2,025</b>     |
| <b>LEMONT BOOSTER STATION</b>                         |                 |                 |                 |                 |                 |                 |                 |                |                   |                  |                  |
| 448.331 Operating Supplies and Expense                | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| 448.332 Power Purchased                               | 2,777           | 2,763           | 4,002           | 2,656           | 3,213           | 2,311           | 2,097           | 2,050          | 2,577             | 2,600            | 2,600            |
| 448.333 Equipment Maintenance                         | 179             | 0               | 1,387           | 2,567           | 559             | 1               | 0               | 700            | 0                 | 350              | 700              |
| 448.334 Structure Maintenance                         | 289             | 214             | 377             | 405             | 295             | 342             | 622             | 700            | 193               | 350              | 700              |
| <b>Subtotal</b>                                       | <b>3,245</b>    | <b>2,977</b>    | <b>5,766</b>    | <b>5,628</b>    | <b>4,067</b>    | <b>2,654</b>    | <b>2,719</b>    | <b>3,450</b>   | <b>2,770</b>      | <b>3,300</b>     | <b>4,000</b>     |
| <b>SPRING CREEK PARK WELL</b>                         |                 |                 |                 |                 |                 |                 |                 |                |                   |                  |                  |
| 448.361 Operating Supplies and Expense                | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| 448.362 Power Purchased                               | 32,361          | 35,473          | 32,879          | 26,080          | 23,364          | 21,318          | 23,934          | 22,000         | 21,300            | 24,500           | 24,500           |
| 448.363 Equipment Maintenance                         | 3,269           | 9,276           | 4,638           | 5,776           | 9,017           | 427             | 2,014           | 7,500          | 274               | 5,000            | 4,500            |
| 448.364 Structure Maintenance                         | 101             | 0               | 486             | 978             | 485             | 524             | 208             | 500            | 699               | 800              | 500              |
| 448.365 Well Monitoring Costs                         | 3,540           | 106             | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| 448.367 Easement Costs                                | 5,610           | 5,610           | 5,610           | 5,610           | 5,610           | 5,610           | 5,610           | 5,700          | 5,610             | 5,700            | 5,700            |
| <b>Subtotal</b>                                       | <b>44,881</b>   | <b>50,465</b>   | <b>43,613</b>   | <b>38,444</b>   | <b>38,476</b>   | <b>27,879</b>   | <b>31,766</b>   | <b>35,700</b>  | <b>27,883</b>     | <b>36,000</b>    | <b>35,200</b>    |

PURIFICATION AND PUMPING EXPENSES

|  | 2009<br>AUDITED | 2010<br>AUDITED | 2011<br>AUDITED | 2012<br>AUDITED | 2013<br>AUDITED | 2014<br>AUDITED | 2015<br>AUDITED | 2016<br>BUDGET | 2016<br>YTD 11/30 | 2016<br>EXPECTED | 2017<br>PROPOSED |
|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|----------------|-------------------|------------------|------------------|
| <b>ROGERS WELL</b>                                   |                 |                 |                 |                 |                 |                 |                 |                |                   |                  |                  |
| 448.371 Operating Supplies and Expense               | 0               | 0               | 0               | 1               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| 448.372 Power Purchased                              | 37,196          | 37,956          | 26,354          | 33,743          | 25,472          | 24,575          | 24,561          | 25,500         | 20,790            | 24,000           | 24,000           |
| 448.373 Equipment Maintenance                        | 2,250           | 2,757           | 5,510           | 4,317           | 3,366           | 911             | 3,350           | 2,750          | 889               | 1,000            | 2,750            |
| 448.374 Structure Maintenance                        | 12              | 4,373           | 441             | 118             | 713             | 0               | 0               | 1,000          | 539               | 750              | 1,000            |
| 448.375 Well Monitoring Costs                        | 5,023           | 4,792           | 4,100           | 0               | 2,981           | 2,700           | 0               | 3,000          | 0                 | 0                | 0                |
| <b>Subtotal</b>                                      | <b>44,481</b>   | <b>49,878</b>   | <b>36,405</b>   | <b>38,179</b>   | <b>32,532</b>   | <b>28,186</b>   | <b>27,911</b>   | <b>32,250</b>  | <b>22,218</b>     | <b>25,750</b>    | <b>27,750</b>    |
| <b>OAK HALL WELLS</b>                                |                 |                 |                 |                 |                 |                 |                 |                |                   |                  |                  |
| 448.391 Operating Supplies and Expense               | 0               | 0               | 0               | 0               | 0               | 65              | 281             | 100            | 16                | 50               | 100              |
| 448.392 Power Purchased                              | 0               | 0               | 0               | 0               | 0               | 35              | 539             | 500            | 280               | 350              | 500              |
| 448.393 Equipment Maintenance                        | 0               | 0               | 0               | 0               | 0               | 66              | 0               | 350            | 637               | 750              | 350              |
| 448.394 Structure Maintenance                        | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 100            | 77                | 100              | 100              |
| 448.395 Well Monitoring Costs                        | 0               | 0               | 0               | 0               | 0               | 0               | 0               | 0              | 0                 | 0                | 0                |
| <b>Subtotal</b>                                      | <b>0</b>        | <b>0</b>        | <b>0</b>        | <b>0</b>        | <b>0</b>        | <b>166</b>      | <b>820</b>      | <b>1,050</b>   | <b>1,010</b>      | <b>1,250</b>     | <b>1,050</b>     |
| <b>INTERCONNECTIONS - SCBWA ,PSU, and BELLEFONTE</b> |                 |                 |                 |                 |                 |                 |                 |                |                   |                  |                  |
| 448.386 Purchased Water                              | 0               | 0               | 0               | 2,095           | 0               | 0               | 0               | 500            | 0                 | 250              | 500              |
| 448.388 Interconnection Maintenance                  | 0               | 255             | 0               | 0               | 0               | 0               | 0               | 200            | 0                 | 100              | 200              |
| <b>Subtotal</b>                                      | <b>0</b>        | <b>255</b>      | <b>0</b>        | <b>2,095</b>    | <b>0</b>        | <b>0</b>        | <b>0</b>        | <b>700</b>     | <b>0</b>          | <b>350</b>       | <b>700</b>       |
| <b>TOTAL PUMPING</b>                                 | <b>94,306</b>   | <b>105,670</b>  | <b>86,830</b>   | <b>85,006</b>   | <b>82,410</b>   | <b>60,340</b>   | <b>65,087</b>   | <b>75,475</b>  | <b>55,473</b>     | <b>68,675</b>    | <b>71,050</b>    |
| <b>TOTAL PURIFICATION AND PUMPING</b>                | <b>130,872</b>  | <b>135,815</b>  | <b>125,184</b>  | <b>111,752</b>  | <b>112,442</b>  | <b>94,433</b>   | <b>94,439</b>   | <b>106,975</b> | <b>81,991</b>     | <b>99,175</b>    | <b>101,550</b>   |

## PURIFICATION AND PUMPING EXPENSES

### PURIFICATION

**Note:** At this time, Mt. Nittany Contact Tank is not operational.

#### **448.202      CHEMICAL PURCHASES**

This line item covers the purchase of chlorine, corrosion inhibitor, and other chemicals used to treat water.

#### **448.204      WATER ANALYSIS**

This line item covers the cost of testing water samples collected throughout the entire water system at EPA and DEP approved labs.

### PUMPING

#### PUDDINTOWN STATION

**Note:** At this time, Puddintown Station is not operational.

#### **448.311      OPERATING SUPPLIES AND EXPENSE**

At this time, the Puddintown station is not operational.

PURIFICATION AND PUMPING EXPENSES

**448.312 POWER PURCHASED**

This account covers the cost of electricity.

**448.313 EQUIPMENT MAINTENANCE**

At this time, the Puddintown station is not operational.

**448.314 STRUCTURE MAINTENANCE**

This line item covers the costs incurred in repairing and maintaining the structures at this facility.

**MATILDA BOOSTER STATION**

**448.321 OPERATING SUPPLIES AND EXPENSE**

This line item covers the cost of light bulbs, fuses, and other operating supplies specific to this facility.

**448.322 POWER PURCHASED**

This account covers the cost of electricity used in this facility for light, heat, equipment, and pumps.

PURIFICATION AND PUMPING EXPENSES

**448.323      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, meters, and other equipment located at the facility.

**448.324      STRUCTURE MAINTENANCE**

This line item covers the costs incurred in repairing and maintaining the structures at this facility.

**LEMONT BOOSTER STATION**

**448.331      OPERATING SUPPLIES AND EXPENSE**

This line item covers the cost of light bulbs, fuses, and other operating supplies specific to this facility.

**448.332      POWER PURCHASED**

This account covers the cost of electricity for light, heat, equipment, and pumps.

**448.333      EQUIPMENT MAINTENANCE**

**PURIFICATION AND PUMPING EXPENSES**

This account covers costs incurred in maintaining pumps, meters, and other equipment located at the facility.

**448.334      STRUCTURE MAINTENANCE**

This line item covers the costs incurred in repairing and maintaining the structure at this facility.

**WATER SOURCE: SPRING CREEK PARK WELL**

**448.361      OPERATING SUPPLIES AND EXPENSE**

This account covers the cost of light bulbs, fuses, and other operating supplies specific to this facility.

**448.362      POWER PURCHASED**

This account covers the cost of electricity used for light, heat, equipment, and pumps.

**448.363      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, chlorine residual analyzer, chlorine feeds, and meters.

**448.364      STRUCTURE MAINTENANCE**

## PURIFICATION AND PUMPING EXPENSES

This account covers the costs incurred in repairing and maintaining the structure at this facility.

### **448.365 WELL MONITORING COST**

The well monitoring plan was required by DEP during a four year period from the start up of the station in November 2001 to November 2005. Therefore, nothing is budgeted for this account at this time. Provides for the services of a hydrogeologist used for various purposes from time to time.

### **448.367 EASEMENT COSTS**

Pursuant to an easement agreement with the College Township Water Authority signed July 7, 1999, the Authority paid the Township an annual fee of \$5,000 beginning 11/29/06. The fee is to be used for park and recreation purposes. As required by the agreement, the fee adjusts every 5 years.

### **WATER SOURCE: ROGERS WELL**

### **448.371 OPERATING SUPPLIES AND EXPENSE**

This line item covers the cost of light bulbs, fuses, and other operating supplies specific to this facility.

### **448.372 POWER PURCHASED**

This account covers the cost of electricity used in these facilities for light, heat, equipment, and pumps.

PURIFICATION AND PUMPING EXPENSES

**448.373      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, chlorine residual analyzer, chlorine feeds, and meters.

**448.374      STRUCTURE MAINTENANCE**

This line item covers the costs incurred in repairing and maintaining the structures at this facility.

**448.375      WELL MONITORING COST**

This account consists primarily of costs incurred in conducting monitoring as required by DEP. It also provides for the services of a hydrogeologist used for various purposes from time to time.

**WATER SOURCE: OAK HALL WELL (OH-19)**

**448.391      OPERATING SUPPLIES AND EXPENSE**

This account covers the cost of light bulbs, fuses, and other operating supplies specific to this facility.

**448.392      POWER PURCHASED**

This account covers the cost of electricity used for light, heat, equipment, and pumps.

**PURIFICATION AND PUMPING EXPENSES**

**448.393      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, chlorine residual analyzer, chlorine feeds, and meters.

**448.394      STRUCTURE MAINTENANCE**

This account covers the costs incurred in repairing and maintaining the structure at this facility.

**448.395      WELL MONITORING COST**

Nothing is budgeted for this account at this time.

**INTERCONNECTIONS – SCBWA, PSU, AND BELLEFONTE**

**448. 386      PURCHASED WATER**

This line item covers the cost of metered water provided by agreement with Penn State University and State College Borough Water Authority as backup sources for the CTWA water system.

**448. 388      INTERCONNECTION MAINTENANCE**

This line item covers the cost of maintaining backflow preventors, meter pits, and PRVs incidental to the interconnections.

## Distribution System Expenses

**DISTRIBUTION SYSTEM EXPENSES**

|   | 2009           | 2010           | 2011           | 2012           | 2013           | 2014           | 2015           | 2016           |                | 2017           |                |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|   | AUDITED        | AUDITED        | AUDITED        | AUDITED        | AUDITED        | AUDITED        | AUDITED        | BUDGET         | YTD 11/30      | EXPECTED       | PROPOSED       |
| <b>STORAGE-DALE ST RESERVOIR</b>                  |                |                |                |                |                |                |                |                |                |                |                |
| 448.341 Operating Supplies and Expense            | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 448.342 Power Purchased                           | 113            | 266            | 153            | 150            | 149            | 150            | 161            | 141            | 156            | 165            | 165            |
| 448.343 Equipment Maintenance                     | 1,659          | 0              | 26             | 4              | 85             | 26             | 0              | 500            | 0              | 250            | 500            |
| 448.344 Structure Maintenance                     | 304            | 3,184          | 404            | 0              | 4,955          | 3,761          | 8              | 500            | 0              | 250            | 500            |
| <b>Subtotal</b>                                   | <b>2,076</b>   | <b>3,450</b>   | <b>583</b>     | <b>154</b>     | <b>5,189</b>   | <b>3,937</b>   | <b>169</b>     | <b>1,141</b>   | <b>156</b>     | <b>665</b>     | <b>1,165</b>   |
| <b>STORAGE-STRUBLE RD TANK</b>                    |                |                |                |                |                |                |                |                |                |                |                |
| 448.351 Operating Supplies and Expense            | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              | 0              |
| 448.352 Power Purchased                           | 289            | 152            | 309            | 231            | 197            | 278            | 231            | 250            | 239            | 250            | 250            |
| 448.353 Equipment Maintenance                     | 1,443          | 0              | 1,135          | 68             | 0              | 20             | 68             | 500            | 0              | 250            | 500            |
| 448.354 Structure Maintenance                     | 530            | 0              | 0              | 0              | 0              | 0              | 0              | 250            | 0              | 125            | 250            |
| <b>Subtotal</b>                                   | <b>2,262</b>   | <b>152</b>     | <b>1,444</b>   | <b>299</b>     | <b>197</b>     | <b>298</b>     | <b>299</b>     | <b>1,000</b>   | <b>239</b>     | <b>625</b>     | <b>1,000</b>   |
| <b>MAINTENANCE-DISTRIBUTION SYSTEM</b>            |                |                |                |                |                |                |                |                |                |                |                |
| 448.475 Maintenance of Distribution / Trans Mains | 8,710          | 52,536         | 34,924         | 23,601         | 17,111         | 23,887         | 18,323         | 20,000         | 33,500         | 37,000         | 20,000         |
| 448.490 Maintenance of Service Lines              | 18,831         | 14,986         | 11,623         | 9,652          | 6,689          | 14,911         | 12,835         | 11,000         | 7,624          | 8,750          | 11,000         |
| 448.495 Dumping Fees                              | 0              | 0              | 0              | 1              | 2,943          | 1,890          | 1,079          | 2,875          | 998            | 1,200          | 2,250          |
| 448.510 Maintenance of Hydrants                   | 1,394          | 3,099          | 695            | 95             | 4,044          | 821            | 39             | 2,000          | 3,246          | 3,600          | 2,000          |
| 448.530 Meter Supplies and Maintenance            | 2,392          | 2,059          | 3,525          | 1,535          | 945            | 891            | 2,571          | 1,750          | 2,127          | 2,750          | 1,750          |
| 448.532 PRV - Penn Hills                          | 0              | 11             | 17             | 1,122          | 937            | 48             | 2              | 100            | 2,013          | 2,100          | 100            |
| 448.534 PRV - Independence Place                  | 0              | 0              | 0              | 881            | 52             | 0              | 1,059          | 100            | 7,263          | 7,300          | 100            |
| 448.536 PRV - Oak Hall                            | 1,693          | 0              | 0              | 320            | 3              | 812            | 72             | 100            | 2,775          | 2,800          | 100            |
| 448.537 PRV - Rockview North                      | 85             | 1,281          | 75             | 1,103          | 61             | 0              | 738            | 100            | 10             | 50             | 100            |
| 448.538 PRV - Rockview South                      | 0              | 0              | 0              | 0              | 0              | 214            | 147            | 100            | 0              | 50             | 100            |
| 448.539 PRV - Bellefonte Interconnect             | 76             | 0              | 0              | 129            | 216            | 0              | 0              | 100            | 0              | 50             | 100            |
| 448.541 PRV - Nittany Commons                     | 0              | 0              | 0              | 909            | 0              | 0              | 0              | 100            | 0              | 50             | 100            |
| <b>Subtotal</b>                                   | <b>33,181</b>  | <b>73,972</b>  | <b>50,859</b>  | <b>39,348</b>  | <b>33,001</b>  | <b>43,474</b>  | <b>36,865</b>  | <b>38,325</b>  | <b>59,556</b>  | <b>65,700</b>  | <b>37,700</b>  |
| <b>GENERAL-DISTRIBUTION SYSTEM</b>                |                |                |                |                |                |                |                |                |                |                |                |
| 448.181 Contract Labor - College Twp Personnel    | 24,365         | 33,523         | 46,247         | 53,059         | 28,386         | 29,114         | 25,767         | 28,000         | 31,991         | 36,735         | 37,000         |
| 448.540 Contract Labor - Technicians              | 122,848        | 132,438        | 136,134        | 146,517        | 126,541        | 141,299        | 143,397        | 150,000        | 123,058        | 138,112        | 150,000        |
| 448.556 Leak Detection Services                   | 0              | 0              | 92             | 0              | 0              | 0              | 0              | 2,000          | 0              | 1,000          | 2,000          |
| 448.575 R-O-W, Regulatory Compliance              | 1,692          | 2,119          | 2,314          | 2,492          | 1,369          | 1,191          | 1,418          | 1,300          | 1,411          | 1,000          | 1,300          |
| 448.648 Pa One Call Service                       | 783            | 1,120          | 843            | 1,386          | 586            | 663            | 594            | 1,000          | 747            | 900            | 1,000          |
| 448.760 Small Tools and Minor Equipment           | 1,224          | 5,640          | 7,748          | 9,018          | 1,898          | 1,974          | 2,036          | 2,500          | 1,315          | 1,500          | 2,000          |
| 448.761 Repairs and Maintenance-Water Equip       | 5,060          | 6,791          | 7,463          | 11,760         | 11,072         | 13,033         | 20,142         | 14,500         | 6,846          | 8,500          | 14,900         |
| 448.762 Safety Equipment                          | 1,275          | 270            | 265            | 327            | 0              | 4              | 0              | 500            | 0              | 250            | 500            |
| <b>Subtotal</b>                                   | <b>157,247</b> | <b>181,901</b> | <b>201,106</b> | <b>224,559</b> | <b>169,852</b> | <b>187,278</b> | <b>193,354</b> | <b>199,800</b> | <b>165,368</b> | <b>187,997</b> | <b>208,700</b> |
| <b>TOTAL DISTRIBUTION SYSTEM</b>                  | <b>194,766</b> | <b>259,475</b> | <b>253,992</b> | <b>264,360</b> | <b>208,239</b> | <b>234,987</b> | <b>230,687</b> | <b>240,266</b> | <b>225,319</b> | <b>254,987</b> | <b>248,565</b> |

DISTRIBUTION SYSTEM EXPENSES

**STORAGE – DALE STREET RESERVOIR**

**448.341 OPERATING SUPPLIES AND EXPENSE**

This line item covers the cost of miscellaneous supplies specific to this facility.

**448.342 POWER PURCHASED**

This line item covers the electricity used for monitoring equipment and in lighting the area.

**448.343 EQUIPMENT MAINTENANCE**

This line item covers the cost incurred in maintaining the equipment located at this site. SCADA System components are considered to be equipment.

**448.344 STRUCTURE MAINTENANCE**

This line item covers the cost incurred in repairing and maintaining the reservoir and other structures at this facility.

**STORAGE – STRUBLE ROAD TANK**

**448.351 OPERATING SUPPLIES AND EXPENSE**

This line item covers the cost of miscellaneous supplies specific to this facility.

## DISTRIBUTION SYSTEM EXPENSES

### **448.352      POWER PURCHASED**

This line item covers the electricity used for monitoring equipment and in lighting the area.

### **448.353      EQUIPMENT MAINTENANCE**

This line item covers the cost incurred in maintaining the equipment located at this site. SCADA System components are considered to be equipment.

### **448.354      STRUCTURE MAINTENANCE**

This line item covers the cost incurred in repairing and maintaining the above ground storage tank located at Struble Road.

### **MAINTENANCE – DISTRIBUTION SYSTEM**

### **448.475      MAINTENANCE OF DISTRIBUTION/TRANSMISSION MAINS**

Distribution waterlines deliver water to and through specific areas and to individual customers. Costs incurred in repairing distribution water mains and appurtenances, such as blow-offs and gate valves, in the distribution system are recorded here.

Transmission waterlines are those primary routes where large flows of water are expected to be conveyed across a pressure zone and typically extend from the water source to and from storage/booster facilities, and beyond to areas of high water demand. The costs involved in repairing and maintaining the various transmission lines throughout the water system are recorded here.

## DISTRIBUTION SYSTEM EXPENSES

### **448.490 MAINTENANCE OF SERVICE LINES**

This line item covers the costs incurred in maintaining service lines, curb stops, main corporations, and curb boxes in the distribution system.

### **448.495 DUMPING FEES**

Excavated waste material from project and maintenance work is hauled to the CMJ Trucking & Construction fill site along Shiloh Road. In past years, there has not been a fee to dump at this site. However, beginning in 2012, the owner of the site began charging Municipalities and Authorities the dumping fee which is currently \$25.00 per truck load. It is estimated for 2017 that 50 truckloads of waste material will be hauled to the site for a total cost of \$1,250. An additional \$1,000 is added for the rental of trucks to haul material to the Shiloh site from the temporary dump site at the Mt. Nittany Road shale pit area.

### **448.510 MAINTENANCE OF HYDRANTS**

This item covers the cost incurred in maintaining, including painting fire hydrants.

### **448.530 METER SUPPLIES AND MAINTENANCE**

This line item covers the costs incurred testing and calibrating meters as well as parts needed to maintain meters in good working condition.

### **448.532 PRV – PENN HILLS**

This line item covers the cost in maintaining the pressure reducing valve located at Penn Hills.

DISTRIBUTION SYSTEM EXPENSES

**448.534 PRV – INDEPENDENCE PLACE**

This line item covers the cost in maintaining the pressure reducing valve located at Independence Place.

**448.536 PRV – OAK HALL**

This line item covers the cost in maintaining the pressure reducing valve located at Baldwin Street for the Oak Hall system.

**448.537 PRV - ROCKVIEW NORTH**

This line item covers the cost in maintaining the pressure reducing valve located at Rockview North.

**448.538 PRV - ROCKVIEW SOUTH**

This line item covers the cost in maintaining the pressure reducing valve located at Rockview South.

**448.539 PRV - BELLEFONTE INTERCONNECT**

This line item covers the cost in maintaining the pressure reducing valve located at Bellefonte Interconnect.

**448.541 PRV – NITTANY COMMONS**

This line item covers the cost in maintaining the pressure reducing valve located at Nittany Commons.

## DISTRIBUTION SYSTEM EXPENSES

### GENERAL – DISTRIBUTION SYSTEM

#### **448.181 CONTRACT LABOR – COLLEGE TOWNSHIP PERSONNEL**

This line item covers the labor charges incurred when College Township personnel are needed for various projects or to assist with system maintenance.

#### **448.540 CONTRACT LABOR – TECHNICIANS**

This line item covers the cost of labor charges, including scheduled overtime, for four full-time service technicians. Whenever technicians perform services for College Township, leaf collection for example, their time is charged to the Township.

#### **448.556 LEAK DETECTION SERVICES**

This line item covers the costs incurred in employing an independent company to identify leaks in the water system.

#### **448.575 R-O-W, REGULATORY COMPLIANCE**

This line item covers the cost of acquiring right of ways, producing the annual consumer confidence report, various permits required by state and federal regulatory bodies, fees associated with DEP, and CDL license expenses.

#### **448.648 PA ONE CALL SERVICE**

## DISTRIBUTION SYSTEM EXPENSES

This line item covers the monthly per fax charge for identifying underground facilities.

### **448.760      SMALL TOOLS AND MINOR EQUIPMENT**

This line item covers the cost of acquiring and maintaining small tools used in every day operation.

### **448.761      REPAIRS AND MAINTENANCE – WATER EQUIPMENT**

This line item covers the cost of maintaining specialized water system equipment such as the SCADA System, Chlorine Analyzers, Turbidimeters and gas chlorination equipment. For 2017, the following costs are as follows:

#### **Hach Company Service Agreement - \$4,302**

This agreement would provide four on-site preventive maintenance visits per year, once each quarter, to service the chlorine analyzers and the turbidimeters at the Spring Creek Park Station and Rogers Well in 2017. Each visit includes cleaning, calibration and the replacement of any necessary parts to keep the units functioning properly and in compliance with all DEP regulations. Any emergency visits required in between regular scheduled maintenance visits to service or repair the units would also be included in this agreement.

#### **Tri-Star – SCADA Maintenance Agreement - \$6,900**

This agreement will provide two working days/trips per year as requested by a Tri-Star technician to verify proper operation of all SCADA controls, instruments and related equipment including annual calibration of equipment to ensure accurate measuring and transmitting of data. This agreement does not

**DISTRIBUTION SYSTEM EXPENSES**

provide for any miscellaneous repair of equipment or replacement parts if needed. \$4,000 has been included for repairs and parts.

|                           |                       |
|---------------------------|-----------------------|
| <b>Tri-Star Agreement</b> | <b>\$2,900</b>        |
| <b>Repairs/Parts</b>      | <b><u>\$4,000</u></b> |
|                           | <b>\$6,900</b>        |

**De Nora Service and Maintenance Plan - \$3,700**

This service and maintenance plan provides one visit per calendar year for a De Nora representative to perform preventative maintenance, calibration and repair if necessary of the gas chlorination system cylinder mounted chlorine vacuum regulators, vacuum switchover modules, remote meter panels, secondary check valves and ejector check valves.

|   |                        |
|---|------------------------|
| <b>De Nora Service and Maintenance Plan</b> | <b>\$ 1,000</b>        |
| <b>Repairs/Parts</b>                        | <b><u>\$ 2,700</u></b> |
|   | <b>\$ 3,700</b>        |

**448.762 SAFETY EQUIPMENT**

In 2004, College Township formed a safety committee.

The purpose of the College Township Safety Committee is to bring workers and management together in a non-adversarial, cooperative effort to detect hazards, correct workplace hazards and increase safety awareness in the workplace. \$500 is budgeted for items identified by the committee during 2017 that will serve to increase safety in the work place.

# General Expenses

**GENERAL EXPENSES**

|  | 2009          | 2010          | 2011          | 2012          | 2013           | 2014           | 2015          | 2016           |               | 2017          |               |
|--|---------------|---------------|---------------|---------------|----------------|----------------|---------------|----------------|---------------|---------------|---------------|
|  | AUDITED       | AUDITED       | AUDITED       | AUDITED       | AUDITED        | AUDITED        | AUDITED       | BUDGET         | YTD 11/30     | EXPECTED      | PROPOSED      |
| <b>OFFICE</b>                                  |               |               |               |               |                |                |               |                |               |               |               |
| 448.600 Contract Labor - Billing and Cust Serv | 31,058        | 45,232        | 47,037        | 54,269        | 58,115         | 55,398         | 54,168        | 59,000         | 50,864        | 56,000        | 56,000        |
| 448.605 Contract Labor - College Twp Personnel | 10,038        | 11,272        | 11,942        | 12,809        | 12,856         | 13,735         | 14,139        | 15,250         | 10,190        | 11,000        | 12,000        |
| 448.610 Contract Labor - Meter Reading         | 12,930        | 10,841        | 9,444         | 6,836         | 7,880          | 9,868          | 4,694         | 5,100          | 2,038         | 2,300         | 4,000         |
| 448.612 Professional Employment Services       | 11,742        | 386           | 0             | 0             | 0              | 0              | 0             | 0              | 0             | 0             | 0             |
| 448.620 Office and Other Supplies              | 4,681         | 1,895         | 2,303         | 2,661         | 1,949          | 2,562          | 2,810         | 2,500          | 1,492         | 1,750         | 2,250         |
| 448.621 Computer and Software Maintenance      | 4,564         | 6,347         | 6,818         | 5,271         | 4,493          | 4,568          | 6,471         | 6,350          | 4,680         | 6,350         | 7,000         |
| 448.625 Postage and Freight Charges            | 4,100         | 4,510         | 4,351         | 4,963         | 5,277          | 5,400          | 5,441         | 5,950          | 5,091         | 6,000         | 6,000         |
| 448.641 Advertising                            | 653           | 647           | 1,836         | 212           | 1,263          | 286            | 1,013         | 750            | 372           | 425           | 750           |
| 448.643 Internet and Email                     | 1,714         | 1,737         | 1,727         | 1,674         | 2,094          | 1,778          | 2,641         | 2,375          | 2,330         | 2,500         | 2,500         |
| 448.645 Telephone                              | 1,630         | 1,712         | 1,794         | 2,450         | 2,052          | 2,134          | 1,885         | 2,000          | 873           | 1,050         | 1,050         |
| 448.647 Cellular Phone                         | 487           | 560           | 985           | 633           | 712            | 939            | 575           | 750            | 537           | 750           | 750           |
| 448.655 Uncollectible Accounts                 | -1,286        | 285           | -651          | 5,660         | 4,161          | 27,603         | 3,478         | 0              | 0             | 0             | 0             |
| <b>Subtotal</b>                                | <b>82,311</b> | <b>85,424</b> | <b>87,586</b> | <b>97,438</b> | <b>100,852</b> | <b>124,271</b> | <b>97,315</b> | <b>100,025</b> | <b>78,467</b> | <b>88,125</b> | <b>92,300</b> |
| <b>GENERAL PROPERTY</b>                        |               |               |               |               |                |                |               |                |               |               |               |
| 448.702 Vehicle Repairs and Maintenance        | 2,626         | 2,549         | 3,485         | 3,110         | 4,315          | 3,969          | 3,300         | 4,000          | 177           | 500           | 2,500         |
| 448.731 Vehicle Fuels: Gas, Diesel, Oil, Etc   | 3,082         | 4,526         | 7,322         | 9,022         | 10,170         | 10,716         | 6,761         | 9,000          | 4,904         | 5,300         | 7,500         |
| 448.735 Repairs of Tools and Machinery         | 15            | 617           | 387           | 563           | 991            | 483            | 416           | 800            | 732           | 800           | 800           |
| 448.740 Materials and Supplies                 | 2,606         | 1,845         | 1,748         | 2,219         | 7,226          | 3,026          | 945           | 3,100          | 1,383         | 1,600         | 3,100         |
| 448.765 Radio/Paging Equipment and Maint       | 180           | 150           | 384           | 0             | 0              | 0              | 152           | 0              | 0             | 0             | 0             |
| 448.770 Rental of Equipment                    | 3,351         | 6,052         | 7,356         | 910           | 1,275          | 5,955          | 8,490         | 5,000          | 3,349         | 5,000         | 5,000         |
| <b>Subtotal</b>                                | <b>11,860</b> | <b>15,739</b> | <b>20,682</b> | <b>15,824</b> | <b>23,977</b>  | <b>24,149</b>  | <b>20,064</b> | <b>21,900</b>  | <b>10,545</b> | <b>13,200</b> | <b>18,900</b> |
| <b>ENGINEERING AND PROFESSIONAL</b>            |               |               |               |               |                |                |               |                |               |               |               |
| 448.810 Engineering - Consulting               | 29,243        | 32,083        | 40,602        | 40,333        | 24,285         | 32,470         | 32,616        | 35,000         | 39,018        | 43,000        | 35,000        |
| 448.818 Engineering - Inspection               | 0             | 0             | 0             | 0             | 0              | 4,387          | 0             | 0              | 0             | 0             | 0             |
| 448.840 Accounting and Audit                   | 18,059        | 14,640        | 12,475        | 14,684        | 14,810         | 18,187         | 16,000        | 15,250         | 12,250        | 15,250        | 15,250        |
| 448.845 Legal                                  | 5,556         | 4,795         | 8,470         | 7,516         | 12,669         | 7,722          | 7,261         | 9,000          | 5,521         | 7,500         | 9,000         |
| 448.850 Professional - Other                   | 1,600         | 800           | 0             | 1,200         | 1,200          | 1,200          | 1,914         | 1,500          | 3,482         | 5,000         | 2,500         |
| <b>Subtotal</b>                                | <b>54,458</b> | <b>52,318</b> | <b>61,547</b> | <b>63,733</b> | <b>52,964</b>  | <b>63,966</b>  | <b>57,791</b> | <b>60,750</b>  | <b>60,271</b> | <b>70,750</b> | <b>61,750</b> |

**GENERAL EXPENSES**

|   | 2009           | 2010           | 2011           | 2012           | 2013           | 2014           | 2015           | 2016           |                | 2017           |                |
|---|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|   | AUDITED        | AUDITED        | AUDITED        | AUDITED        | AUDITED        | AUDITED        | AUDITED        | BUDGET         | YTD 11/30      | EXPECTED       | PROPOSED       |
| <b>TAXES, BENEFITS, AND INSURANCE</b>           |                |                |                |                |                |                |                |                |                |                |                |
| 448.615 Training - Distribution and Office      | 58             | 300            | 488            | 0              | 1,377          | 1,465          | 1,725          | 1,500          | 1,275          | 1,500          | 1,500          |
| 448.618 Conventions                             | 980            | 1,050          | 1,020          | 1,020          | 0              | 0              | 0              | 1,050          | 0              | 0              | 1,050          |
| 448.738 Clothing and Uniforms                   | 1,977          | 2,080          | 2,614          | 2,263          | 2,973          | 2,450          | 2,434          | 3,000          | 2,228          | 2,600          | 3,000          |
| 448.802 Dues, Subscriptions, and Memberships    | 2,460          | 2,171          | 2,202          | 2,260          | 2,487          | 2,493          | 2,499          | 2,625          | 2,705          | 2,800          | 2,800          |
| 448.855 Insurance Policies                      | 19,644         | 25,265         | 22,063         | 25,384         | 32,294         | 27,546         | 16,206         | 33,000         | 17,789         | 18,000         | 20,000         |
| 448.858 Workers' Compensation Insurance         | 6,627          | 8,718          | 8,790          | 7,259          | 10,151         | 10,651         | 12,128         | 14,000         | 10,220         | 10,500         | 11,750         |
| 448.860 Pension Expense                         | 11,572         | 11,931         | 14,305         | 15,351         | 15,737         | 16,300         | 16,780         | 17,340         | 14,208         | 17,340         | 18,000         |
| 448.865 Bond                                    | 0              | 0              | 152            | 0              | 0              | 152            | 141            | 175            | 164            | 164            | 175            |
| 448.870 Medical / Dental Insurance              | 52,186         | 60,094         | 79,108         | 78,083         | 87,833         | 100,158        | 110,066        | 113,850        | 103,244        | 114,000        | 119,000        |
| 448.871 Health Insurance Opt-Out Program        | 0              | 0              | 0              | 3,209          | 3,326          | 3,796          | 4,189          | 4,300          | 4,040          | 4,375          | 4,735          |
| 448.875 Group Term Life/Disability Insurance    | 3,399          | 3,866          | 3,552          | 4,127          | 4,036          | 3,079          | 3,208          | 3,500          | 2,842          | 3,500          | 3,600          |
| 448.880 Payroll Taxes - FICA                    | 13,459         | 14,880         | 15,148         | 20,041         | 19,427         | 18,582         | 18,822         | 19,125         | 16,643         | 18,100         | 19,000         |
| 448.881 Unemployment Compensation Insurance     | 1,960          | 1,080          | 1,181          | 647            | 2,943          | 4,292          | 3,246          | 2,450          | 2,218          | 2,450          | 650            |
| <b>Subtotal</b>                                 | <b>114,322</b> | <b>131,435</b> | <b>150,623</b> | <b>159,644</b> | <b>182,584</b> | <b>190,964</b> | <b>191,444</b> | <b>215,915</b> | <b>177,576</b> | <b>195,329</b> | <b>205,260</b> |
| <b>MISCELLANEOUS</b>                            |                |                |                |                |                |                |                |                |                |                |                |
| 448.885 Operational and Management Agreement    | 74,820         | 74,820         | 77,160         | 78,960         | 81,540         | 83,556         | 85,872         | 88,560         | 81,180         | 88,560         | 91,392         |
| 480.470 Miscellaneous                           | 239            | 32             | 133            | 2              | 6              | 89             | 15,118         | 500            | 60             | 100            | 500            |
| 481.460 Board, Staff, and Professional Meetings | 0              | 107            | 0              | 0              | 0              | 0              | 0              | 200            | 0              | 100            | 200            |
| 493.895 Loss (Gain) on Disposal of Assets       | 0              | 0              | 0              | 0              | 0              | 0              | -              | 0              | 0              | 0              | 0              |
| <b>Subtotal</b>                                 | <b>75,059</b>  | <b>74,959</b>  | <b>77,293</b>  | <b>78,962</b>  | <b>81,546</b>  | <b>83,645</b>  | <b>100,990</b> | <b>89,260</b>  | <b>81,240</b>  | <b>88,760</b>  | <b>92,092</b>  |
| <b>TOTAL GENERAL EXPENSE</b>                    | <b>338,010</b> | <b>359,875</b> | <b>397,731</b> | <b>415,601</b> | <b>441,923</b> | <b>486,995</b> | <b>467,604</b> | <b>487,850</b> | <b>408,099</b> | <b>456,164</b> | <b>470,302</b> |

## GENERAL EXPENSES

### OFFICE

#### **448.600 CONTRACT LABOR – BILLING AND CUSTOMER SERVICE**

In accordance with section 5.7 of the management agreement, the Authority reimburses the Township for all non-exempt Township employees' time associated with obligations of the Authority. This account covers the cost of the Customer Service Specialist and approximately 65% of the Finance Office Assistant's wages. In prior years, prior to reassignment of EIT collection to the Centre Tax Agency, a larger percentage of the Finance Office Assistant's wages were allocated to the tax department.

#### **448.605 CONTRACT LABOR – COLLEGE TOWNSHIP PERSONNEL**

This line item covers time spent by non-exempt personnel in the performance of duties other than billing and customer service. Such duties include payables, budget preparation support, special project accounting, and scheduled overtime incurred for attendance at Authority meetings by the recording secretary.

#### **448.610 CONTRACT LABOR – METER READER**

This line item covers the wages incurred for the part-time meter reader (non-exempt) which requires approximately 400 hours per year. In addition to reading meters, this position performs other maintenance functions such as mowing, trimming, weeding, and painting from time to time. Also covered by this account is the cost of reimbursing the meter reader for using a personal vehicle for Authority business.

#### **448.612 PROFESSIONAL EMPLOYMENT SERVICES**

The Authority reimburses the Township for the cost of temporary employee services that are needed from time to time.

## GENERAL EXPENSES

### 448.620 OFFICE AND OTHER SUPPLIES

This line item covers the cost of routine office, computer, and other miscellaneous supplies used in the day-to-day operations.

### 448.621 COMPUTER AND SOFTWARE MAINTENANCE

This line item covers the cost of hardware maintenance, network software maintenance, 50% of the notification software, and the maintenance contract on the billing software package.

### 448.625 POSTAGE AND SHIPPING CHARGES

This line item covers the cost of postage, mailing services, and shipping charges.

### 448.641 ADVERTISING

This line item covers the cost incurred for advertising meetings, notifications, and employment opportunities.

### 448.643 INTERNET AND EMAIL

**Internet:**

The Borough of State College, CATA, Centre Region COG, and the townships entered into an Inter-municipal agreement in 2012 for the operation and maintenance of a Local Area Network/Wide Area Network joint

## GENERAL EXPENSES

network structure. The annual cost to the township to benefit from this arrangement is approximately \$15,000 of which \$1,560 is borne by the CTWA and \$3,120 by the tax department.

Also, the Authority reimburses 2 employees for the cost of cable modems installed in their homes. The cable modem provides a reliable means for accessing the Authority's SCADA system when required, and serves to reduce the overtime that would otherwise be incurred.

### **448.645 TELEPHONE**

This line item covers the cost of monthly local/long distance service and required modem lines.

### **448.647 CELLULAR PHONE**

This line item covers the cost of a cellular phone used by the Manager and a Water Technician. Personal use is reimbursed via payroll deductions.

### **448.655 UNCOLLECTIBLE ACCOUNTS**

This line item covers the cost of employing an outside collection firm in collecting delinquent accounts.

## **GENERAL PROPERTY**

### **448.702 VEHICLE REPAIRS AND MAINTENANCE**

## GENERAL EXPENSES

This line item covers 100% of the cost of repairing and maintaining licensed vehicles and off road equipment such as the excavator, owned by the Authority. Where title is shared with the Township, upkeep costs are shared equally.

### **448.731      VEHICLE FUELS: GAS, DIESEL, OIL, ETC.**

This line item covers the cost of fuel and other consumable items in the operation of Authority owned vehicles and equipment. Where title is shared with the Township, these costs are shared equally.

### **448.735      REPAIRS OF TOOLS AND MACHINERY**

This account captures the costs of repairing machinery and tools owned by the Authority.

### **448.740      MATERIALS AND SUPPLIES**

This line item covers materials and supplies not accounted for anywhere else.

### **448.765      RADIO AND PAGING EQUIPMENT AND MAINTENANCE**

The Authority utilizes the Township's radio trunking system which is provided at no charge through the County. Each service vehicle and the backhoe have a radio. This account is used to record the cost associated with this communication equipment.

### **448.770      RENTAL OF EQUIPMENT**

## GENERAL EXPENSES

This line item covers the cost of equipment rental in emergency type situations including items such as generators rented from outside vendors. Equipment rented from the Township is based on an equipment rental rate schedule.

### ENGINEERING AND PROFESSIONAL

#### **448.810      ENGINEERING - CONSULTING**

This line item covers the charges from the consulting engineer for routine engineering services such as meeting attendance, completion of the annual loss water report, completion of the annual water system report for the Trustee, SRBC Quality Withdrawal report, etc. Charges related to projects such as design and construction management are added to the cost of these projects.

#### **448.840      ACCOUNTING AND AUDIT**

Outside auditor services in auditing the Authority's 2016 financial statements and preparing the 2016 Annual Report of Municipal Authorities is expected to cost \$12,750. An estimate of \$2,500 is included for professional consultation on other financial issues.

#### **448.845      LEGAL**

This budget item covers the cost for the Authority's solicitor plus other legal services that are requested during the year.

## GENERAL EXPENSES

### **448.850      PROFESSIONAL - OTHER**

In 2016, the Authority utilized the services of a hydrologist to assist with the execution of a plan for the installation of a utility in the vicinity of our well head. Along with other possible services, it is expected that a web site developed by the Water Resources Monitoring Committee regarding source water education would partially bill the Water Authority for their costs.

### **TAXES, BENEFITS, AND INSURANCE**

### **448.615      TRAINING – DISTRIBUTION AND OFFICE**

This line item covers the training costs of providing services or personnel certified with the appropriate class and type of certification under the Sewage Treatment Plant and Waterworks Operators Certification Act of 1968. Also, the manager authorizes non-exempt staff members' attendance at courses and seminars that will enhance their job performance. This line item is used for this purpose, as well as training for Authority board members.

### **448.618      CONVENTIONS**

This line item covers the cost of attending the annual PRWA conference and the cost of the appointed officials and/or the manager attending the annual PMAA Conference and other selected seminars.

### **448.738      CLOTHING AND UNIFORMS**

This account covers the following for the Authority's technicians: 1) renting and laundering uniforms, 2) \$300 bi-annual boot allowance, 3) winter jacket replacement allowance, 4) insignia shirts for field identification and 5) \$350 bi-annual safety glasses allowance.

GENERAL EXPENSES

**448.802 DUES, SUBSCRIPTIONS, AND MEMBERSHIPS**

This line item covers membership in the Pennsylvania Municipal Authorities Association, the Pennsylvania Rural Water Association, and the American Water Association. In addition, \$100 is budgeted for reference sources and miscellaneous subscriptions.

**448.855 INSURANCE POLICIES**

The Authority maintains public liability, property damage, and workers' compensation insurance. This account covers the cost of all insurance, including the Authority's share of the public official's liability insurance, other than the premiums for workers' compensation insurance which is recorded in account #448.858.

**448.858 WORKERS' COMPENSATION INSURANCE**

In accordance with section 6.3 of the management agreement, the Township maintains adequate workers' compensation coverage for their employees assigned to performing the obligations of the Township. This account records the annual invoice to the Authority for their portion of the premium.

**448.860 PENSION EXPENSE**

This line item covers the Authority's share of the cost of providing a pension for the Township employees.

**448.865 BOND**

This represents the cost of bonding those individuals charged with the responsibility of handling funds relating to the Water System.

GENERAL EXPENSES

**448.870      MEDICAL/ DENTAL/VISION INSURANCE**

**Vision:**

This line item covers the Authority's share of the cost of providing a vision plan for township employees. Any incremental cost of adding family members will be the sole responsibility of the employee.

**Health/Dental:**

This line item covers the Authority's share of the cost of providing health and dental insurance coverage for the township employees. The monthly premiums for 2012 - 2017 prior to employee contributions are as follows:

|      | Health        |               | Dental        |               |
|------|---------------|---------------|---------------|---------------|
|      | <u>Single</u> | <u>Family</u> | <u>Single</u> | <u>Family</u> |
| 2017 | 1,039.39      | 2,381.72      | 26.60         | 85.56         |
| 2016 | 961.12        | 2,195.53      | 25.65         | 82.51         |
| 2015 | 921.52        | 2,097.58      | 25.65         | 82.51         |
| 2014 | 835.74        | 1,892.72      | 32.39         | 100.66        |
| 2013 | 733.50        | 1,647.81      | 32.39         | 100.66        |
| 2012 | 707.30        | 1,587.36      | 32.39         | 100.66        |

The township deducts a portion of the cost of the premium from the employee's paycheck.

**448.871      HEALTH INSURANCE OPT-OUT PROGRAM**

## GENERAL EXPENSES

Starting in 2012, employees who choose to opt-out of the Township's health insurance will receive 20% of the Township's cost to cover the employee who has single coverage, or employee and family if they have family coverage. This will only apply to health insurance, and not to dental or vision coverage. Also, the additional payment to employee will not be included in their regular salary for pension purposes.

### **448.875      GROUP TERM LIFE/DISABILITY INSURANCE**

This line item covers the Authority's share of the cost of providing life, accident, both short-term and long-term disability insurance for the Township's regular, full-time employees.

### **448.880      PAYROLL TAXES – FICA**

This item covers the Authority's share of the social security and Medicare taxes on employee wages. The 2017 social security rate is 6.2% of gross earnings up to \$127,200 per employee. The 2017 Medicare rate is 1.45% of gross earnings (no limit). Beginning 1/1/2013, additional .9% Medicare tax went into effect, but due to high income thresholds, this additional tax is not expected to impact College Township employees

### **448.881      UNEMPLOYMENT COMPENSATION INSURANCE**

This covers the Authority's share of unemployment insurance, which is calculated to be 1.0% of an employee's first \$9,750 of earnings.

### **MISCELLANEOUS**

### **448.885      OPERATIONAL AND MANAGEMENT AGREEMENT**

GENERAL EXPENSES

College Township provides operation and management of the water system to the Authority pursuant to an AGREEMENT FOR MANAGEMENT SERVICES dated September 23, 1998. In accordance with section 5.8.1 of that agreement, the reimbursement rate has been reviewed and will be \$7,616 per month.

**480.470 MISCELLANEOUS**

This line item includes \$500 for the cost of other miscellaneous or one-time expenses that cannot be directly allocated to another budget item

**481.460 BOARD, STAFF AND PROFESSIONAL MEETINGS**

This item covers the cost of lunch for working luncheon meetings.

## Non-Operating Income (Expense)

**NON-OPERATING INCOME (EXPENSE)**

|  | 2009          | 2010         | 2011         | 2012       | 2013         | 2014         | 2015         | 2016         |              |              | 2017          |
|--|---------------|--------------|--------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|
|  | AUDITED       | AUDITED      | AUDITED      | AUDITED    | AUDITED      | AUDITED      | AUDITED      | BUDGET       | YTD 11/30    | EXPECTED     | PROPOSED      |
| <b>NON-OPERATING INCOME (EXPENSE)</b>    |               |              |              |            |              |              |              |              |              |              |               |
| 341.000 Investment Income                | 24,420        | 6,027        | 4,824        | 949        | 7,383        | 8,679        | 8,384        | 5,250        | 1,366        | 1,750        | 10,000        |
| 341.050 Investment Income - SCI Rockview | 803           | 0            | 0            | 0          | 0            | 0            | 0            | 0            | 0            | 0            | 0             |
| <b>NET NON-OPERATING INCOME (EXP)</b>    | <b>25,223</b> | <b>6,027</b> | <b>4,824</b> | <b>949</b> | <b>7,383</b> | <b>8,679</b> | <b>8,384</b> | <b>5,250</b> | <b>1,366</b> | <b>1,750</b> | <b>10,000</b> |

NON-OPERATING INCOME

**341.000**      **INVESTMENT INCOME**

This category accounts for the revenue generated from the investment of Authority funds.

# Capital Budget

College Towns Water Authority  
 PLANNED CONSTRUCTION PROJECTS AND CAPITAL ASSET PURCHASES FOR 2017

|  | 2017 FUNDING                 |                      |            |
|--|------------------------------|----------------------|------------|
|  | All Other<br>Available Funds | CNB<br>Drawdown Loan | Total      |
| <u>Water System Upgrade Projects</u>                                       |                              |                      |            |
| Oak Hall System Automatic Flushing Device                                  | \$ -                         | \$ 8,360             | \$ 8,360   |
| Limerock Terrace   | \$ -                         | \$ 100,000           | \$ 100,000 |
| Houserville Road   | \$ -                         | \$ 33,000            | \$ 33,000  |
| Watkins Road   | \$ -                         | \$ 14,000            | \$ 14,000  |
| Oak Ridge Avenue   | \$ -                         | \$ 24,000            | \$ 24,000  |
| Oak Hall Well Development Continuation                                     | \$ -                         | \$ 70,500            | \$ 70,500  |
| <u>Water System Maintenance/Repairs</u>                                    |                              |                      |            |
| Replace SCADA Pack Dale Street Reservoir - Spare Level Sensor              | \$ 4,800                     | \$ -                 | \$ 4,800   |
| Chlorine Injection System - Spring Creek Park Well                         | \$ 5,000                     | \$ -                 | \$ 5,000   |
| Lemont Station Modify Pressure Reducing Valve SCADA Programming            | \$ 7,500                     | \$ -                 | \$ 7,500   |
| <u>Capital Asset Purchases</u>   |                              |                      |            |
| Backflow Prevention Program and Residential Meters - 90 @ \$155            | \$ 13,950                    | \$ -                 | \$ 13,950  |
| Standby Generators Spring Creek Park Well, Rogers Well, and Lemont Station | \$ 108,000                   | \$ -                 | \$ 108,000 |
| TOTALS   | \$ 139,250                   | \$ 249,860           | \$ 389,110 |

|   |
|---|
| <u>Estimated Costs for Future Projects &amp; Equipment (Prioritized in order)</u> |
|---|

|   |              |
|---|--------------|
| 1 Struble Road Storage Tank Fencing             | \$ 20,000    |
| 2 Berry Street                                  | \$ 73,910    |
| 3 Merryhill Road                                | \$ 54,000    |
| 4 Rainlo Street, Oakwood Drive and Norle Street | \$ 20,000    |
| 5 Green Acres Lane                              | \$ 20,000    |
| 6 Puddintown Road                               | \$ 65,000    |
| 7 East Branch Road                              | \$ 110,000   |
| 8 Clyde Avenue                                  | \$ 60,000    |
| 9 Replace Primary and Backup SCACA PC'S         | \$ 4,000     |
| 10 Single Axle Dump Truck                       | \$ 40,000    |
| 11 OH-20 <b>CONTINUED</b> Development           | \$ 1,500,000 |
| 12 OH-20 Distribution Upgrades                  | \$ 500,000   |
|   | \$ 2,466,910 |

Note: Flushing valve at end of Oak Hall Line maybe be required based on new regulations.

## CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

### 2017 WATER SYSTEM UPGRADE PROJECTS

#### **OAK HALL SYSTEM AUTOMATIC FLUSHING DEVICE - \$8,360**

The Automatic Flushing Device would be installed on the main 3" PVC line to Oak Hall to maintain the required chlorine residual at all times for the Oak Hall System. The unit will be a 1" flushing assembly that is battery operated and can be programmed for multiple flushes per day. A meter pit will be installed with the unit to record gallons flushed.

#### **LIMEROCK TERRACE - \$100,000**

The connection to the low pressure zone from the Pep Boys PRV is currently served by a 4" AC main line. During 2013, 540 LF of 8" ductile iron main line was installed from the Limerock Court Subdivision to the Rhodes Lane intersection along Limerock Terrace. To increase flow to the low pressure zone from the Pep Boys vault, it is proposed to continue construction of the 8" main line along Limerock Terrace and connect to the 8" main line at Pike Street. The 4" AC line will remain in place for the existing back lot service lines to several properties.

The new 8" line will include one new fire hydrant assembly and replacing one service line connection at the Pike Street intersection.

#### **HOUSERVILLE ROAD - \$33,000**

Replace approximately 400 LF of existing 4" AC line from Scholl Street to Gibbons Street, with 8" ductile iron pipe. Replace seven service line connections. This project will complete the construction of the 8" main line along Houserville Road.

## CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

### **WATKINS ROAD - \$14,000**

During repair of a recent leak on this line, it was found that the steel pipe is severely deteriorated. Replace approximately 200 LF of 2" steel line with 2" CTS plastic pipe. Replace three service line connections.

### **OAK RIDGE AVENUE - \$24,000**

Replace approximately 450 LF of 2" steel line with 2" CTS plastic pipe from Squirrel Drive to the end of the line at 1345 Oak Ridge Avenue. Replace seven service line connections.

### **OAK HALL WELL DEVELOPMENT CONTINUATION - \$70,500**

The following activities are expected to be performed in 2017 to continue the process of connecting Oak Hall Well (OH-20) to the distribution system: Finalize and submit pump test plan to SRBC by Dr. Parizek and Entech, discharge permits for pump test, conduct pump (including water samples, and Dr. Parizek/Entech services during pump test. Costs are expected to be \$70,500 for the year.

## **2017 WATER SYSTEM MAINTENANCE/REPAIRS**

### **REPLACE SCADA PACK DALE STREET RESERVOIR - SPARE LEVEL SENSOR - \$4,800**

Replace the existing obsolete SCADA Pack at the Dale Street Reservoir and purchase a spare Submersible Level Sensor.

The Tri-Star proposal includes installation of the new SCADA Pack, programming, start-up and verification of proper operation.

### **CHLORINE INJECTION SYSTEM – SPRING CREEK PARK WELL - \$5,000**

The SCADA controls and Variable Frequency drives at the stations are now programmed to operate the well and high service pumps based on reservoir level or by system pressure if the reservoir is out of service.

The chlorine flow is currently controlled by a manually operated roto meter based on gallon per minute flow rate from the well.

## CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

To operate the station on system pressure, an automatic gas control valve must be installed to automatically adjust the proper amount of chlorine injected based on the gallon per minute flow from the well. The well pump Variable Frequency Drive and High Service Frequency Drive speed will fluctuate to maintain a set system pressure. The automatic gas control valve was purchased in 2013. This cost includes installation of the valve and SCAD programming modifications.

### **LEMONT STATION: MODIFY PRESSURE REDUCING VALVE SCADA PROGRAMMING - \$7,500**

Modify the SCADA operation of the pressure reducing valve to replace obsolete SCADA Pack and add Dale Street Reservoir level mode of operation with flow gallon per minute set point.

This PRV is designed to transfer water from the Struble Road Tank (high pressure zone) to the Dale Street Reservoir (low pressure zone).

The PRV currently operates only in the system pressure mode of operation.

The level mode of operation will have a start level and stop level for the Dale Street Reservoir and a flow gallon per minute setting.

### **2017 CAPITAL ASSET PURCHASES**

### **CROSS CONNECTION CONTROL/BACKFLOW PREVENTION PROGRAM - \$13,950**

This new program was started in 2009 to inspect customer interior water service connections for compliance with CTWA Rules and Regulations for the proper installation of backflow prevention devices and overall correct meter set area plumbing. It is proposed that the inspections for 2017 will continue. An additional 90 residential meters @ \$155 will be purchased for the expected change out of old meters during the inspections.

## CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

### **EMERGENCY POWER SUPPLY GENERATOR - \$65,500**

Purchase trailer mounted stand-by generator that could be used at Spring Creek Park Well, or Rogers Well and purchase trailer mounted stand-by generator for Lemont Station.

150 KW Generator \$74,000 Spring Creek Park Well or Rogers Well  
50 KW Generator \$34,000 Lemont Booster Station

### **FUTURE PROJECTS**

### **STRUBLE ROAD STORAGE TANK FENCING - \$20,000**

Install perimeter security fencing with access gate at the driveway.

### **BERRY STREET - \$73,910**

Replace approximately 680 LF of 4" AC main line pipe from Dale Street to Mary Street. Install 18 new service line connections.

### **MERRYHILL ROAD - \$54,000**

Replace approximately 530 lineal feet of the existing 2 inch steel line with 8 inch ductile iron main line from the end of the existing 6 inch line to the end of the street at private property. Relocate the existing fire hydrant to approximately the middle of Merryhill Road. Install eight new service line connections.

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

**RAINLO STREET, OAKWOOD DRIVE AND NORLE STREET - \$20,000**

Install new service lines from existing main lines along these streets to properties currently connected to back-lot 1" and 2" steel lines. This change in location of the service line to the properties will require plumbing modifications inside each residence. After all properties are connected to the larger main lines along the streets, the 1" and 2" line would be abandoned in place.

**GREEN ACRES LANE - \$20,000**

Replace existing 2" steel line with 2" CTS plastic pipe. Replace service line connections.

**PUDDINTOWN ROAD - \$65,000**

Install approximately 800 LF of 8" ductile iron pipe from Meadow Lane to Spring Creek Lane to complete a main line loop in the distribution system to the Houserville Area. Connect five ¾" service lines and connect the 2" main line at Spring Creek Lane to the new 8" line.

**EAST BRANCH ROAD - \$110,000**

Replace approximately 1,300 LF of 6" asbestos cement main line pipe with 8" ductile iron pipe from Norle Street to the E. Branch Road Bridge over the Mt. Nittany Expressway. Replace nine service line connections.

**CLYDE AVENUE - \$60,000**

## CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

Construct approximately 610 lineal feet of 8" ductile iron pipe from the fire hydrant at the Waskob Industrial Park to the existing fire hydrant on Clyde Avenue to complete a main line loop in the distribution system in this area. This connection will improve the fire flow capacity at both fire hydrants.

### **(2) SCADA PC'S - \$4,000**

Replace 2 pc's used solely in conjunction with the SCADA system. One of the pc's is used as a fully functional spare.

### **LATE MODEL USED SINGLE AXLE DUMP TRUCK - \$40,000**

This additional dump truck would be used for general hauling purposes during maintenance, repair and project work on the distribution system, hauling excavated spoil material and hauling various aggregate backfill materials. The purchase of this truck would reduce truck rental costs.

### **OH-20 DESIGN & CONSTRUCTION - \$1,500,000**

Develop a third water supply well for the CTWA system in the vicinity of the village of Oak Hall.

### **OH-20 DISTRIBUTION UPGRADES - \$500,000**

Upgrades to connect the OH-20 to the distribution system.

# Appendix

# Appendix

Appendix 1: Debt Service Schedule

Appendix 2: Top 10 Users

Appendix 3: Gallons Produced, Billed and Unaccounted

Appendix 4: Water System Revenue and Rate History

Appendix 5: Other Key Statistics (Customers, Gallons Per Day, Debt Coverage)

Appendix 6: Equipment Replacement Schedule



College Township Water Authority  
General Obligation Note, Series of 2015

Total Issue

30 31 32 33 34 35 36 37 38 39

SEC IMPROVEMENT  
FOR CR BOSTON

| Date      | Principal  | Rate | Interest     | Debt Service  | Debt Service  | Annual    | Less: Deposit | Net           | Existing     | Difference  |
|-----------|------------|------|--------------|---------------|---------------|-----------|---------------|---------------|--------------|-------------|
|           |            |      |              |               |               | Service   | to Debt       | Annual        | Annual Net   |             |
|           |            |      |              |               |               | Fund      |               | Service       | Debt Service |             |
| 12/8/2015 |            |      |              |               |               |           |               |               |              |             |
| 1/1/2016  |            |      |              |               | 0.00          |           |               |               | 360,731.46   | 360,731.46  |
| 7/1/2016  | 487,700    | 1.98 | 111,650.00   | 111,650.00    |               |           | 111,650.00    |               |              |             |
| 1/1/2017  |            | 1.98 | 99,000.00    | 586,700.00    | 698,350.00    | 99,000.00 |               | 487,700.00    | 715,405.57   | 227,705.57  |
| 7/1/2017  |            | 1.98 | 94,171.77    | 94,171.77     |               |           |               |               |              |             |
| 1/1/2018  | 528,700    | 1.98 | 94,171.77    | 622,871.77    | 717,043.54    |           |               | 717,043.54    | 714,830.57   | -2,212.97   |
| 7/1/2018  |            | 1.98 | 88,937.64    | 88,937.64     |               |           |               |               |              |             |
| 1/1/2019  | 539,100    | 1.98 | 88,937.64    | 628,037.64    | 716,975.28    |           |               | 716,975.28    | 717,870.57   | 895.29      |
| 7/1/2019  |            | 1.98 | 83,600.55    | 83,600.55     |               |           |               |               |              |             |
| 1/1/2020  | 549,800    | 1.98 | 83,600.55    | 633,400.55    | 717,001.10    |           |               | 717,001.10    | 714,095.57   | -2,905.53   |
| 7/1/2020  |            | 1.98 | 78,157.53    | 78,157.53     |               |           |               |               |              |             |
| 1/1/2021  | 560,700    | 1.98 | 78,157.53    | 638,857.53    | 717,015.06    |           |               | 717,015.06    | 719,060.57   | 2,045.51    |
| 7/1/2021  |            | 2.98 | 109,276.60   | 109,276.60    |               |           |               |               |              |             |
| 1/1/2022  | 498,400    | 2.98 | 109,276.60   | 607,676.60    | 716,953.20    |           |               | 716,953.20    | 717,395.57   | 442.37      |
| 7/1/2022  |            | 2.98 | 101,850.44   | 101,850.44    |               |           |               |               |              |             |
| 1/1/2023  | 513,300    | 2.98 | 101,850.44   | 615,150.44    | 717,000.88    |           |               | 717,000.88    | 714,715.57   | -2,285.31   |
| 7/1/2023  |            | 2.98 | 94,202.27    | 94,202.27     |               |           |               |               |              |             |
| 1/1/2024  | 528,600    | 2.98 | 94,202.27    | 622,802.27    | 717,004.54    |           |               | 717,004.54    | 715,723.07   | -1,281.47   |
| 7/1/2024  |            | 2.98 | 86,326.13    | 86,326.13     |               |           |               |               |              |             |
| 1/1/2025  | 544,300    | 2.98 | 86,326.13    | 630,626.13    | 716,952.26    |           |               | 716,952.26    | 715,465.57   | -1,486.69   |
| 7/1/2025  |            | 2.98 | 78,216.06    | 78,216.06     |               |           |               |               |              |             |
| 1/1/2026  | 560,600    | 2.98 | 78,216.06    | 638,816.06    | 717,032.12    |           |               | 717,032.12    | 718,903.07   | 1,870.95    |
| 7/1/2026  |            | 3.68 | 86,273.92    | 86,273.92     |               |           |               |               |              |             |
| 1/1/2027  | 544,400    | 3.68 | 86,273.92    | 630,673.92    | 716,947.84    |           |               | 716,947.84    | 716,103.07   | -844.77     |
| 7/1/2027  |            | 3.68 | 76,256.96    | 76,256.96     |               |           |               |               |              |             |
| 1/1/2028  | 564,500    | 3.68 | 76,256.96    | 640,756.96    | 717,013.92    |           |               | 717,013.92    | 717,233.07   | 219.15      |
| 7/1/2028  |            | 3.68 | 65,870.16    | 65,870.16     |               |           |               |               |              |             |
| 1/1/2029  | 585,300    | 3.68 | 65,870.16    | 651,170.16    | 717,040.32    |           |               | 717,040.32    | 716,433.07   | -607.25     |
| 7/1/2029  |            | 3.68 | 55,100.64    | 55,100.64     |               |           |               |               |              |             |
| 1/1/2030  | 606,800    | 3.68 | 55,100.64    | 661,900.64    | 717,001.28    |           |               | 717,001.28    | 161,837.89   | -555,163.39 |
| 7/1/2030  |            | 3.68 | 43,935.52    | 43,935.52     |               |           |               |               |              |             |
| 1/1/2031  | 629,100    | 3.68 | 43,935.52    | 673,035.52    | 716,971.04    |           |               | 716,971.04    |              | -716,971.04 |
| 7/1/2031  |            | 4.18 | 36,756.83    | 36,756.83     |               |           |               |               |              |             |
| 1/1/2032  | 643,500    | 4.18 | 36,756.83    | 680,256.83    | 717,013.66    |           |               | 717,013.66    |              | -717,013.66 |
| 7/1/2032  |            | 4.18 | 23,307.68    | 23,307.68     |               |           |               |               |              |             |
| 1/1/2033  | 516,300    | 4.18 | 23,307.68    | 539,607.68    | 562,915.36    |           |               | 562,915.36    |              | -562,915.36 |
| 7/1/2033  |            | 4.18 | 12,517.01    | 12,517.01     |               |           |               |               |              |             |
| 1/1/2034  | 537,900    | 4.18 | 12,517.01    | 550,417.01    | 562,934.02    |           |               | 562,934.02    |              | -562,934.02 |
| 7/1/2034  |            | 4.18 | 1,274.90     | 1,274.90      |               |           |               |               |              |             |
| 1/1/2035  | 61,000     | 4.18 | 1,274.90     | 62,274.90     | 63,549.80     |           |               | 63,549.80     |              | -63,549.80  |
| Totals    | 10,000,000 |      | 2,642,715.22 | 12,642,715.22 | 12,642,715.22 |           | 210,650.00    | 12,432,065.22 | 9,835,804.29 |             |
|           | 10,000,000 |      | 2,642,715.22 | 12,642,715.22 | 12,642,715.22 |           | 210,650.00    | 12,432,065.22 | 9,835,804.29 |             |

Note: Interest expense reflected on this schedule assumes the full \$10million was drawn at closing. Because there is approximately \$2.1 million that will be drawn down as required to fund projects, actual interest expense will be lower than reflected up until the interest payment due 7/1/19.

College Township Water Authority  
 Top 10 Customers - Calendar Year 2015

| Customer               | Service Address         | Billed Gallons | Usage     | Fire Service | Gallons | Revenue | REVENUE   |
|------------------------|-------------------------|----------------|-----------|--------------|---------|---------|-----------|
| Centre Concrete        | 2280 E. College Ave     | 8,413,000      | \$ 56,367 |              |         |         | \$ 56,367 |
| BVRE                   | 1329 Dreibelbis St      | 4,198,000      | \$ 28,127 |              |         |         | \$ 28,127 |
| The Green Hotel        | 1221 E. College Ave     | 3,993,000      | \$ 26,753 | \$ 2,698     |         |         | \$ 29,451 |
| Hampton Inn            | 1101 E. College Ave     | 3,401,000      | \$ 22,787 | \$ 3,171     |         |         | \$ 25,957 |
| Giant Food Stores      | 2222 E. College Ave     | 3,205,000      | \$ 21,474 | \$ 5,397     |         |         | \$ 26,871 |
| Channel Communications | 2820 E. College Ave     | 2,741,000      | \$ 18,365 | \$ 5,397     |         |         | \$ 23,762 |
| HFL                    | 1357 E. College Ave     | 2,232,000      | \$ 14,954 | \$ 3,780     |         |         | \$ 18,734 |
| Wal-Mart Stores        | 373 Benner Pike         | 1,926,000      | \$ 12,904 | \$ 5,397     |         |         | \$ 18,301 |
| W&W Realty             | 1234 E. College Ave     | 1,658,000      | \$ 11,109 |              |         |         | \$ 11,109 |
| UAJA                   | 1576 Spring Valley Road | 1,353,000      | \$ 9,065  |              |         |         | \$ 9,065  |

College Township Water Authority  
 Gallons Produced,      and Unaccounted

|                           | Year Ended - December 31 |             |             |             |             |
|---------------------------|--------------------------|-------------|-------------|-------------|-------------|
|                           | <u>2011</u>              | <u>2012</u> | <u>2013</u> | <u>2014</u> | <u>2015</u> |
| Gallons Produced          | 321,335,000              | 292,489,000 | 293,615,000 | 292,382,000 | 273,193,100 |
| Gallons Billed            |                          |             |             |             |             |
| SCI-Rockview Penitentiary | 50,000,000               | 50,000,000  | 50,000,000  | 50,000,000  | 50,000,000  |
| UAJA-Beneficial Reuse     | 10,862,000               | 11,694,000  | 14,156,000  | 12,482,000  | 13,094,000  |
| All Other                 | 184,350,000              | 185,091,000 | 186,738,000 | 179,181,000 | 185,015,000 |
|                           | 245,212,000              | 246,785,000 | 250,894,000 | 241,663,000 | 248,109,000 |
| Unaccounted Gallons *     | 8.30%                    | 12.40%      | 9.30%       | 11.90%      | 7.10%       |

\* this figure which involves an extensive calculation by the Consulting Engineer and is not calculated until the end of the following year

College Township Water Authority  
Water System Revenue Rate History

Year Ended - December 31

|                                    | <u>2011</u>             | <u>2012</u>             | <u>2013</u>             | <u>2014</u>             | <u>2015</u>             | <u>2016</u><br><u>(Projected)</u> | <u>2017</u><br><u>(Budgeted)</u> |
|------------------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-----------------------------------|----------------------------------|
| <b>WATER SYSTEM REVENUE</b>        |                         |                         |                         |                         |                         |                                   |                                  |
| <b>Metered Water Sales</b>         |                         |                         |                         |                         |                         |                                   |                                  |
| SCI-Rockview Penitentiary          | 128,500                 | 131,708                 | 136,125                 | 136,500                 | 18,261                  | -                                 | -                                |
| UAJA-Beneficial Reuse              | 61,174                  | 62,446                  | 78,424                  | 67,938                  | 69,905                  | 70,000                            | 70,072                           |
| All Other                          |                         |                         |                         |                         |                         |                                   |                                  |
| Residential                        | 712,142                 | 708,433                 | 751,799                 | 722,125                 | 816,931                 | 834,000                           | 837,500                          |
| Commercial                         | 285,115                 | 294,954                 | 302,269                 | 283,528                 | 325,376                 | 326,000                           | 328,300                          |
| Industrial                         | 75,610                  | 71,705                  | 72,095                  | 53,253                  | 70,739                  | 79,000                            | 80,400                           |
| Other Public                       | 16,894                  | 20,193                  | 27,831                  | 21,837                  | 27,615                  | 26,000                            | 26,800                           |
| Total metered                      | <u>1,279,435</u>        | <u>1,289,439</u>        | <u>1,368,543</u>        | <u>1,285,181</u>        | <u>1,328,827</u>        | <u>1,335,000</u>                  | <u>1,343,072</u>                 |
| <b>Other Water System Revenues</b> |                         |                         |                         |                         |                         |                                   |                                  |
| Fire Services                      | 239,244                 | 240,069                 | 242,678                 | 244,335                 | 268,101                 | 269,600                           | 270,797                          |
| Other                              |                         |                         |                         |                         |                         |                                   |                                  |
| Penalties                          | 13,699                  | 14,506                  | 16,497                  | 16,006                  | 15,285                  | 15,200                            | 15,200                           |
| Connection Fees                    | 7,619                   | 101,456                 | 23,874                  | 21,081                  | 27,670                  | 46,000                            | 10,000                           |
| Other                              | 23,041                  | 2,734                   | 20,766                  | 5,078                   | 5,730                   | 4,300                             | 4,300                            |
| Total Other                        | <u>283,603</u>          | <u>358,765</u>          | <u>303,815</u>          | <u>286,500</u>          | <u>316,786</u>          | <u>335,100</u>                    | <u>300,297</u>                   |
| <b>TOTAL WATER SYSTEM REVENUE</b>  | <u><u>1,563,038</u></u> | <u><u>1,648,204</u></u> | <u><u>1,672,358</u></u> | <u><u>1,571,681</u></u> | <u><u>1,645,613</u></u> | <u><u>1,670,100</u></u>           | <u><u>1,643,369</u></u>          |

RATE HISTORY (Per Thousand Gallons)

|                  |         |         |         |         |         |         |      |
|------------------|---------|---------|---------|---------|---------|---------|------|
| Rockview         | \$ 2.57 | \$ 2.64 | \$ 2.73 | \$ 2.73 | n/a     | n/a     |      |
| Beneficial Reuse | \$ 5.22 | \$ 5.34 | \$ 5.54 | \$ 5.54 | \$ 5.91 | \$ 6.16 | 6.20 |
| Regular          | \$ 5.75 | \$ 5.90 | \$ 6.10 | \$ 6.10 | \$ 6.40 | \$ 6.70 | 6.70 |

Note: UAJA settlement over beneficial use rate resulted in a lower usage rate beginning in 2015

Year Ended - December 31

|                                    | <u>2011</u>    | <u>2012</u>    | <u>2013</u>    | <u>2014</u>    | <u>2015</u>    |
|------------------------------------|----------------|----------------|----------------|----------------|----------------|
| <b><u>Other Key Statistics</u></b> |                |                |                |                |                |
| <b>Connections Served</b>          |                |                |                |                |                |
| Domestic                           | 2,355          | 2,380          | 2,406          | 2,425          | 2,435          |
| Commercial                         | 323            | 321            | 323            | 306            | 308            |
| Industrial                         | 17             | 16             | 16             | 14             | 14             |
| Institutional                      | 13             | 13             | 14             | 16             | 15             |
| Bulk Sales to other PWS            | 2              | 2              | 3              | 3              | 3              |
| Other                              | -              | -              | -              | -              | -              |
|                                    | <u>2,710</u>   | <u>2,732</u>   | <u>2,762</u>   | <u>2,764</u>   | <u>2,775</u>   |
| <b>Metered Water Use (GPD)</b>     |                |                |                |                |                |
| Domestic                           | 335,267        | 328,069        | 337,660        | 328,012        | 333,770        |
| Commercial                         | 134,230        | 136,591        | 135,760        | 128,787        | 132,937        |
| Industrial                         | 35,597         | 33,206         | 32,380         | 24,189         | 28,901         |
| Institutional                      | 7,954          | 9,351          | 12,500         | 9,919          | 11,282         |
| Bulk Sales to other PWS            | 57,507         | 37,552         | 48,095         | 35,397         | 11,890         |
| Unaccounted                        | 309,815        | 254,381        | 238,027        | 274,745        | 229,691        |
| Other                              | -              | -              | -              | -              | -              |
|                                    | <u>880,370</u> | <u>799,150</u> | <u>804,422</u> | <u>801,049</u> | <u>748,471</u> |
| <b>% of Population Served</b>      | <b>62.47%</b>  | <b>62.47%</b>  | <b>62.47%</b>  | <b>63.86%</b>  | <b>64.05%</b>  |

Note: 2011 & 2014 deficit was corrected with the 2012 budget which increased rat

(1) Source: Annual Water Supply Report

(2) Source: Audit Reports

College Township Water Authority 2017 Budget  
Existing Equipment Replacement Fund Projection

| PURCHASE YEAR                     | DISCRPTION OF EQUIPMENT         | PURCHASE PRICE | EXPECTED LIFE | YEAR TO REPLACE | REPLACEMENT PRICE | ANNUAL REVENUE NEEDED |
|-----------------------------------|---------------------------------|----------------|---------------|-----------------|-------------------|-----------------------|
| <b>MAINTENANCE VEHICLES:</b>      |                                 |                |               |                 |                   |                       |
| 2010                              | 2011 FORD F350 UTILITY BODY #61 | \$37,850       | 10            | 2020            | \$40,000          | \$4,000               |
| 2012                              | 2012 CHEVY VAN #64              | \$28,925       | 10            | 2022            | \$32,000          | \$3,200               |
| 2015                              | 2015 FORD F150 #72              | \$30,600       | 10            | 2025            | \$34,000          | \$3,400               |
|                                   | <b>TOTALS:</b>                  | \$97,375       |               |                 | \$106,000         | \$10,600              |
| <b>OFFICE AND STAFF VEHICLES:</b> |                                 |                |               |                 |                   |                       |
|                                   |                                 |                |               |                 |                   |                       |
|                                   |                                 |                |               |                 |                   |                       |
|                                   |                                 |                |               |                 |                   |                       |
|                                   | <b>TOTALS:</b>                  | \$0            |               |                 | \$0               | \$0                   |
| <b>OFF ROAD EQUIPMENT:</b>        |                                 |                |               |                 |                   |                       |
| 2006                              | BOBCAT 331E TRACK EXCAVATOR     | \$31,250       | 15            | 2021            | \$38,000          | \$2,533               |
| 2009                              | 2008 CASE BACKHOE               | \$78,650       | 15            | 2024            | \$85,000          | \$5,667               |
|                                   |                                 |                |               |                 |                   |                       |
|                                   |                                 |                |               |                 |                   |                       |
|                                   | <b>TOTALS:</b>                  | \$109,900      |               |                 | \$123,000         | \$8,200               |

College Township Water Authority 2017 Budget  
Existing Equipment Replacement Fund Projection

| PURCHASE YEAR                    | DESCRIPTION OF EQUIPMENT            | PURCHASE PRICE | EXPECTED LIFE | YEAR TO REPLACE | REPLACEMENT PRICE | ANNUAL REVENUE NEEDED |
|----------------------------------|-------------------------------------|----------------|---------------|-----------------|-------------------|-----------------------|
| <b>TOOLS &amp; ATTACHMENTS:</b>  |                                     |                |               |                 |                   |                       |
| Unknown                          | MULLER TAPPING MACHINE              | \$1,000        | 15            | 2020            | \$1,200           | \$80                  |
| 1990                             | PIPE AND CABLE LOCATOR              | \$1,000        | 30            | 2020            | \$1,300           | \$43                  |
| 1993                             | 5000W GENERATOR                     | \$500          | 25            | 2018            | \$700             | \$28                  |
| 1997                             | 1997 SCHONSTEDT METAL DETECTOR #1   | \$875          | 25            | 2022            | \$1,000           | \$40                  |
| 1997                             | 1997 SCHONSTEDT METAL DETECTOR #2   | \$875          | 25            | 2022            | \$1,000           | \$40                  |
| 1997                             | 1997 FORD TAPPING TOOL              | \$800          | 25            | 2022            | \$950             | \$38                  |
| 1998                             | 1998 FIRE HYDRANT METER             | \$600          | 20            | 2018            | \$750             | \$38                  |
| 2002                             | 2002 FIRE HYDRANT FLOW TEST KIT     | \$1,200        | 20            | 2022            | \$1,500           | \$75                  |
| 2004                             | 2004 PIPE THREADER                  | \$1,200        | 20            | 2024            | \$1,500           | \$75                  |
| 2005                             | 2005 HONDA 2" TRASH PUMP            | \$400          | 15            | 2020            | \$550             | \$37                  |
| 2006                             | 2006 12 VOLT SUBMERSIBLE PUMP       | \$500          | 12            | 2018            | \$650             | \$54                  |
| 2006                             | 2006 HOSE MONSTER                   | \$700          | 20            | 2026            | \$900             | \$45                  |
| 2006                             | 2006 RIGID NO. 460 TRI STAND        | \$500          | 20            | 2026            | \$700             | \$35                  |
| 2007                             | 2007 ALLEGRO VENTILATOR             | \$800          | 20            | 2027            | \$1,000           | \$50                  |
| 2008                             | 2008 INGERSOLL-RAND LIGHT TOWER     | \$6,885        | 20            | 2028            | \$8,000           | \$400                 |
| 2008                             | 2008 VALVE LUBRICATOR               | \$400          | 20            | 2028            | \$600             | \$30                  |
| 2008                             | 2008 TRIPOD RETRIEVAL WINCH #102144 | \$2,590        | 20            | 2028            | \$3,000           | \$150                 |
| 2009                             | 2009 SALA LIFT II 9' TRIPOD         | \$800          | 20            | 2029            | \$1,000           | \$50                  |
| 2009                             | 2009 TRIPOD RETRIEVAL WINCH #108561 | \$2,590        | 20            | 2029            | \$3,000           | \$150                 |
| 2010                             | 2010 3" PIERCING TOOL               | \$4,275        | 15            | 2025            | \$4,500           | \$300                 |
| 2011                             | 2011 STIHL MULTI PURPOSE SAW TS 800 | \$1,125        | 8             | 2019            | \$1,300           | \$163                 |
| 2011                             | 2011 HONDA 3000W GENERATOR          | \$1,155        | 15            | 2026            | \$1,300           | \$87                  |
| 2012                             | 2012 SCHONSTEDT MAG LOCATOR         | \$940          | 20            | 2032            | \$1,000           | \$50                  |
| 2012                             | 2012 TRACEMASTER LINE LOCATOR       | \$3,775        | 15            | 2027            | \$4,000           | \$267                 |
| 2012                             | 2012 FCS S-30 LEAK NOISE AMP SYSTEM | \$4,500        | 20            | 2032            | \$6,000           | \$300                 |
| 2015                             | 2015 GAS DETECTOR MAX XT II         | \$875          | 10            | 2025            | \$950             | \$95                  |
| 2016                             | 2015 STIHL MP SAW MODEL TS 420      | \$1,005        | 8             | 2024            | \$1,200           | \$150                 |
|                                  | <b>TOTALS:</b>                      | \$41,865       |               |                 | \$49,550          | \$2,869               |
| <b>LAWN &amp; GROUNDS TOOLS:</b> |                                     |                |               |                 |                   |                       |
| 2013                             | POULAN LAWN MOWER                   | \$200          | 8             | 2021            | \$250             | \$31                  |
|                                  | <b>TOTALS:</b>                      | \$200          |               |                 | \$250             | \$31                  |
|                                  | <b>GRAND TOTALS:</b>                | \$249,340      |               |                 | \$278,800         | \$21,700              |

Year To Replace = Purchase Year + Expected Life  
Annual Reserve = (Replacement Price - 10% of Purchase Price)/Expected Life