

# 2020 Budget - College Township Water Authority



**Centre Care - Under Construction**

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## Operating Budget Summary

**COLLEGE TOWNSHIP WATER AUTHORITY  
YEAR 2020 OPERATING BUDGET SUMMARY**

**OPERATING BUDGET SUMMARY**

	2012 AUDITED	2013 AUDITED	2014 AUDITED	2015 AUDITED	2016 AUDITED	2017 AUDITED	2018 AUDITED	2019		2020	
								BUDGET	YTD 11/30	EXPECTED	PROPOSED
<b>OPERATING INCOME</b>											
Water System Revenues	1,648,202	1,672,358	1,571,681	1,645,614	1,687,234	1,650,852	1,701,274	1,659,436	1,491,507	1,677,889	1,729,541 (1)
<b>OPERATING EXPENSES</b>											
Purification and Pumping	111,752	112,442	94,433	94,439	99,054	120,315	122,243	117,080	120,915	143,269	129,380
Distribution System	264,360	208,239	234,987	230,687	269,691	249,636	273,525	272,375	222,601	245,713	298,669
General Expense	415,601	441,923	486,995	467,604	444,207	438,163	495,583	504,288	515,090	548,048	533,782
<b>TOTAL OPERATING EXPENSES</b>	<b>791,713</b>	<b>762,604</b>	<b>816,415</b>	<b>792,730</b>	<b>812,952</b>	<b>808,114</b>	<b>891,351</b>	<b>893,743</b>	<b>858,606</b>	<b>937,030</b>	<b>961,831 (2)</b>
<b>OPERATING MARGIN</b>	<b>856,489</b>	<b>909,754</b>	<b>755,266</b>	<b>852,884</b>	<b>874,282</b>	<b>842,738</b>	<b>809,923</b>	<b>765,693</b>	<b>632,901</b>	<b>740,859</b>	<b>767,710</b>
<b>NON-OPERATING INCOME (EXPENSE)</b>	<b>949</b>	<b>7,383</b>	<b>8,679</b>	<b>8,384</b>	<b>1,857</b>	<b>21,885</b>	<b>22,027</b>	<b>25,000</b>	<b>28,123</b>	<b>30,212</b>	<b>21,250 (3)</b>
<b>INCOME BEFORE DEBT SERVICE</b>	<b>857,438</b>	<b>917,137</b>	<b>763,945</b>	<b>861,268</b>	<b>876,139</b>	<b>864,623</b>	<b>831,950</b>	<b>790,693</b>	<b>661,024</b>	<b>771,071</b>	<b>788,960</b>
<b>LESS: Debt Service Requirement</b>											<b>717,015 (4)</b>
<b>AVAILABLE FOR CAPITAL, CONTINGENCIES AND RESERVE</b>											<b><u>71,945</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	1,729,541 (1)
Investment Income	<u>21,250 (3)</u>
	<b>1,750,791</b>
Administrative and operating expenses	961,831 (2)
Debt Service	717,015 (4)
10% of Debt Service	<u>71,702</u>
	<b><u>1,750,548</u></b>
Excess Coverage	<b><u>244</u></b>

# Operating Revenues

**OPERATING INCOME**

	2012	2013	2014	2015	2016	2017	2018	2019		2020	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
<b><u>WATER SYSTEM REVENUES</u></b>											
<b>METERED WATER REVENUES</b>											
350.110 Metered Water Revenues - Residential	708,432	751,800	722,125	816,931	848,850	795,855	802,614	828,563	704,700	810,000	843,500
350.120 Metered Water Revenues - Commercial	294,954	302,268	283,528	325,376	329,873	304,294	311,310	321,131	315,120	320,000	336,280
350.130 Metered Water Revenues - Industrial	71,704	72,095	53,253	70,739	79,172	72,643	61,122	62,775	72,130	72,150	77,280
350.140 Metered Water Revenues - Other Public	20,193	27,831	21,837	27,615	24,364	16,587	14,562	15,964	22,822	24,650	26,250
350.141 Metered Water Revenues - SCI Rockview	131,708	136,125	136,500	18,261	0	0	0	0	0	0	0
350.142 Metered Water Revenues - UAJA BRW	62,446	78,424	67,938	69,905	69,407	62,827	62,605	62,743	63,289	63,289	65,351
<b>Subtotal</b>	<b>1,289,437</b>	<b>1,368,543</b>	<b>1,285,181</b>	<b>1,328,827</b>	<b>1,351,666</b>	<b>1,252,206</b>	<b>1,252,213</b>	<b>1,291,176</b>	<b>1,178,061</b>	<b>1,290,089</b>	<b>1,348,661</b>
<b>FIRE SERVICES</b>											
360.405 Fire Services - CTWA Hydrants	85,300	85,885	86,531	94,579	95,290	96,102	97,116	97,846	73,979	99,250	101,500
360.410 Fire Services - Private Hydrants	4,681	4,681	4,681	5,725	6,264	5,280	7,311	5,424	4,269	5,625	5,424
360.420 Fire Services - Sprinkler Fire Lines	150,088	152,112	153,123	167,796	168,260	171,110	170,365	173,640	129,663	172,850	172,156
<b>Subtotal</b>	<b>240,069</b>	<b>242,678</b>	<b>244,335</b>	<b>268,100</b>	<b>269,814</b>	<b>272,492</b>	<b>274,792</b>	<b>276,910</b>	<b>207,911</b>	<b>277,725</b>	<b>279,080</b>
<b>OTHER WATER RELATED REVENUES</b>											
370.300 Penalties	14,506	16,497	16,006	15,285	14,894	14,490	15,454	16,000	13,290	14,800	15,000
370.500 Water Main Connection Fees	101,456	23,874	21,081	27,671	46,912	89,696	144,748	60,000	76,688	78,500	70,000
370.515 Meter Depreciation Charge	0	0	0	0	0	0	11,298	11,350	10,200	11,375	11,400
370.000 Miscellaneous	2,734	20,766	5,078	5,731	3,948	21,968	2,769	4,000	5,357	5,400	5,400
<b>Subtotal</b>	<b>118,696</b>	<b>61,137</b>	<b>42,165</b>	<b>48,687</b>	<b>65,754</b>	<b>126,154</b>	<b>174,269</b>	<b>91,350</b>	<b>105,535</b>	<b>110,075</b>	<b>101,800</b>
<b>TOTAL WATER SYSTEM REVENUES</b>	<b>1,648,202</b>	<b>1,672,358</b>	<b>1,571,681</b>	<b>1,645,614</b>	<b>1,687,234</b>	<b>1,650,852</b>	<b>1,701,274</b>	<b>1,659,436</b>	<b>1,491,507</b>	<b>1,677,889</b>	<b>1,729,541</b>

## OPERATING REVENUES

### **METERED WATER REVENUE**

Effective January 1, 2020, water consumption is proposed to be billed to the majority of its customers for each meter at \$7.00 per 1,000 gallons consumed. This rate represents a 3.7% increase over last year's rate of \$6.75.

**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 2020 will be \$6.33 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 2020, 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	2,479	120,500,000	\$843,500
Commercial	333	48,040,000	336,280
Industrial	14	11,040,000	77,280
Other Public	<u>14</u>	<u>3,750,000</u>	<u>26,250</u>
	<b><u>2,840</u></b>	<b><u>183,330,000</u></b>	<b><u>\$ 1,283,310</u></b>
UAJA – Beneficial Reuse			
Cintas	1	7,670,000	\$48,551
Redline Speedshine	1	4,475,000	15,662
Best Western Motel	<u>1</u>	<u>325,000</u>	<u>1,138</u>
	<b><u>3</u></b>	<b><u>12,470,000</u></b>	<b><u>\$65,351</u></b>
<b>TOTAL</b>	<b><u>2,843</u></b>	<b><u>195,800,000</u></b>	<b><u>\$ 1,348,661</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 2020:

<u>HYDRANTS</u>	<u>NUMBER</u>	<u>ANNUAL CHARGE</u>	<u>REVENUE</u>
Hydrants – Authority owned and maintained	250	\$ 406	<u>\$101,500</u>
Hydrants – Privately owned and maintained	16	\$ 339	<u>\$ 5,424</u>

**STANDBY FIRE LINES**

Sprinkler – 4” fire service	22	\$ 1,484	\$32,648
Sprinkler – 6” fire service	23	\$ 2,968	68,264
Sprinkler – 8” fire service	<u>12</u>	<u>\$ 5,937</u>	<u>71,244</u>
	57		<u>\$172,156</u>

## 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.

### **WATER METER DEPRECIATION CHARGE**

Replacement of water meters, which have a useful life of approximately 10 years, requires a significant ongoing expense of the Authority. This fee that is charged across the customer base is intended to provide the Authority with the capital needed to fund this ongoing expense. The fee is \$1.00 per meter per quarter, excluding fire line meters.

### **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**

	2012	2013	2014	2015	2016	2017	2018	2019		2020	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
<b>PURIFICATION EXPENSE</b>											
									YTD 11/30		
405.202 Chemical Purchases	18,335	20,157	21,056	20,594	18,469	26,667	27,816	28,000	32,789	42,800	37,000
405.204 Water Analysis	8,411	9,875	13,037	8,758	7,964	13,311	12,538	12,000	13,614	15,100	13,000
405.206 Structure Maintenance - Mt Nittany Contact T:	0	0	0	0	0	0	0	0	0	0	0
<b>TOTAL PURIFICATION</b>	<b>26,746</b>	<b>30,032</b>	<b>34,093</b>	<b>29,352</b>	<b>26,433</b>	<b>39,978</b>	<b>40,354</b>	<b>40,000</b>	<b>46,403</b>	<b>57,900</b>	<b>50,000</b>
<b>PUMPING EXPENSE</b>											
<b>PUDDINTOWN STATION</b>											
410.311 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
410.312 Power Purchased	4	0	0	0	74	99	104	120	97	120	120
410.313 Equipment Maintenance	0	0	0	0	0	0	0	0	0	0	0
410.314 Structure Maintenance	0	804	204	204	705	0	13	1,700	173	200	1,000
<b>Subtotal</b>	<b>4</b>	<b>804</b>	<b>204</b>	<b>204</b>	<b>779</b>	<b>99</b>	<b>117</b>	<b>1,820</b>	<b>270</b>	<b>320</b>	<b>1,120</b>
<b>MATILDA BOOSTER STATION</b>											
415.321 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
415.322 Power Purchased	656	1,260	1,251	1,667	1,655	1,732	2,111	2,300	1,678	1,900	2,000
415.323 Equipment Maintenance	0	4,826	0	0	0	228	62	150	0	100	100
415.324 Structure Maintenance	0	445	0	0	0	244	0	150	0	100	100
<b>Subtotal</b>	<b>656</b>	<b>6,531</b>	<b>1,251</b>	<b>1,667</b>	<b>1,655</b>	<b>2,204</b>	<b>2,173</b>	<b>2,600</b>	<b>1,678</b>	<b>2,100</b>	<b>2,200</b>
<b>LEMONT BOOSTER STATION</b>											
420.331 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
420.332 Power Purchased	2,656	3,213	2,311	2,097	2,903	2,197	3,493	3,300	5,710	6,200	4,000
420.333 Equipment Maintenance	2,567	559	1	0	0	0	1,629	600	25	150	500
420.334 Structure Maintenance	405	295	342	622	193	2,898	2,457	2,000	1,522	1,700	2,000
<b>Subtotal</b>	<b>5,628</b>	<b>4,067</b>	<b>2,654</b>	<b>2,719</b>	<b>3,096</b>	<b>5,095</b>	<b>7,579</b>	<b>5,900</b>	<b>7,257</b>	<b>8,050</b>	<b>6,500</b>
<b>SPRING CREEK PARK WELL</b>											
425.361 Operating Supplies and Expense	0	0	0	0	0	0	63	0	0	0	0
425.362 Power Purchased	26,080	23,364	21,318	23,934	25,175	22,510	25,032	24,000	26,843	31,600	31,000
425.363 Equipment Maintenance	5,776	9,017	427	2,014	3,768	8,407	1,265	4,000	1,341	1,650	3,500
425.364 Structure Maintenance	978	485	524	208	728	212	1,576	800	237	350	800
425.365 Well Monitoring Costs	0	0	0	0	0	0	0	0	0	0	0
425.367 Easement Costs	5,610	5,610	5,610	5,610	5,610	5,610	5,610	5,610	5,610	5,610	5,610
<b>Subtotal</b>	<b>38,444</b>	<b>38,476</b>	<b>27,879</b>	<b>31,766</b>	<b>35,281</b>	<b>36,739</b>	<b>33,546</b>	<b>34,410</b>	<b>34,031</b>	<b>39,210</b>	<b>40,910</b>

**PURIFICATION AND PUMPING EXPENSES**

	2012	2013	2014	2015	2016	2017	2018	2019		2020	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
<b>ROGERS WELL</b>											
430.371 Operating Supplies and Expense	1	0	0	0	0	0	0	0	17	0	0
430.372 Power Purchased	33,743	25,472	24,575	24,561	25,211	29,245	30,015	27,500	18,963	20,500	21,000
430.373 Equipment Maintenance	4,317	3,366	911	3,350	5,009	3,838	1,211	2,500	119	300	2,500
430.374 Structure Maintenance	118	713	0	0	539	1,694	0	800	0	200	600
430.375 Well Monitoring Costs	0	2,981	2,700	0	0	146	6,200	0	10,519	12,800	3,000
<b>Subtotal</b>	<b>38,179</b>	<b>32,532</b>	<b>28,186</b>	<b>27,911</b>	<b>30,759</b>	<b>34,923</b>	<b>37,426</b>	<b>30,800</b>	<b>29,618</b>	<b>33,800</b>	<b>27,100</b>
<b>OAK HALL WELL</b>											
435.391 Operating Supplies and Expense	0	0	65	281	16	21	11	50	547	650	150
435.392 Power Purchased	0	0	35	539	334	560	681	700	658	760	700
435.393 Equipment Maintenance	0	0	66	0	625	522	338	400	406	450	400
435.394 Structure Maintenance	0	0	0	0	76	174	18	100	29	29	100
435.395 Well Monitoring Costs	0	0	0	0	0	0	0	0	18	0	0
<b>Subtotal</b>	<b>0</b>	<b>0</b>	<b>166</b>	<b>820</b>	<b>1,051</b>	<b>1,277</b>	<b>1,048</b>	<b>1,250</b>	<b>1,658</b>	<b>1,889</b>	<b>1,350</b>
<b>INTERCONNECTIONS - SCBWA ,PSU, and BELLEFONTE</b>											
440.386 Purchased Water	2,095	0	0	0	0	0	0	200	0	0	100
440.388 Interconnection Maintenance	0	0	0	0	0	0	0	100	0	0	100
<b>Subtotal</b>	<b>2,095</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>300</b>	<b>0</b>	<b>0</b>	<b>200</b>
<b>TOTAL PUMPING</b>	<b>85,006</b>	<b>82,410</b>	<b>60,340</b>	<b>65,087</b>	<b>72,621</b>	<b>80,337</b>	<b>81,889</b>	<b>77,080</b>	<b>74,512</b>	<b>85,369</b>	<b>79,380</b>
<b>TOTAL PURIFICATION AND PUMPING</b>	<b>111,752</b>	<b>112,442</b>	<b>94,433</b>	<b>94,439</b>	<b>99,054</b>	<b>120,315</b>	<b>122,243</b>	<b>117,080</b>	<b>120,915</b>	<b>143,269</b>	<b>129,380</b>

## PURIFICATION AND PUMPING EXPENSES

### PURIFICATION

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

#### **405.202      CHEMICAL PURCHASES**

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

#### **405.204      WATER ANALYSIS**

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

#### **405.206      STRUCTURE MAINTENANCE**

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

### PUMPING

#### PUDDINTOWN STATION

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

PURIFICATION AND PUMPING EXPENSES

**410.311 OPERATING SUPPLIES AND EXPENSE**

At this time, the Puddintown station is not operational.

**410.312 POWER PURCHASED**

This account covers the cost of electricity.

**410.313 EQUIPMENT MAINTENANCE**

At this time, the Puddintown station is not operational.

**410.314 STRUCTURE MAINTENANCE**

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

**MATILDA BOOSTER STATION**

**415.321 OPERATING SUPPLIES AND EXPENSE**

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

**415.322 POWER PURCHASED**

## PURIFICATION AND PUMPING EXPENSES

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

### **415.323      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, meters, and other equipment located at the facility. SCADA system components are considered to be equipment.

### **415.324      STRUCTURE MAINTENANCE**

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

## **LEMONT BOOSTER STATION**

### **420.331      OPERATING SUPPLIES AND EXPENSE**

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

### **420.332      POWER PURCHASED**

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

### **420.333      EQUIPMENT MAINTENANCE**

## PURIFICATION AND PUMPING EXPENSES

This account covers costs incurred in maintaining pumps, meters, and other equipment located at the facility. SCADA system components are considered to be equipment.

### **420.334      STRUCTURE MAINTENANCE**

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

### **WATER SOURCE: SPRING CREEK PARK WELL**

### **425.361      OPERATING SUPPLIES AND EXPENSE**

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

### **425.362      POWER PURCHASED**

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

### **425.363      EQUIPMENT MAINTENANCE**

This account covers costs incurred in maintaining pumps, a turbidimeter, chlorine residual analyzer, chlorine feeds, and meters. SCADA system components are considered to be equipment.

### **425.364      STRUCTURE MAINTENANCE**

## PURIFICATION AND PUMPING EXPENSES

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

### **425.365 WELL MONITORING COST**

This account consists primarily of costs incurred in conducting monitoring as required by DEP. The services of a hydrogeologist used for various purposes from time to time are charged to A/C #488.850 under the General Expenses category.

### **425.367 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. The fee adjusted in 2009 and adjusts every fifth year thereafter.

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

### **430.371 OPERATING SUPPLIES AND EXPENSE**

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

### **430.372 POWER PURCHASED**

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

PURIFICATION AND PUMPING EXPENSES

**430.373      EQUIPMENT MAINTENANCE**

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

**430.374      STRUCTURE MAINTENANCE**

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

**430.375      WELL MONITORING COST**

This account consists primarily of costs incurred in conducting monitoring as required by DEP. The services of a hydrogeologist used for various purposes from time to time are charged to A/C #488.850 under the General Expenses category.

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

**435.391      OPERATING SUPPLIES AND EXPENSE**

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

**435.392      POWER PURCHASED**

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

PURIFICATION AND PUMPING EXPENSES

**435.393      EQUIPMENT MAINTENANCE**

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

**435.394      STRUCTURE MAINTENANCE**

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

**435.395      WELL MONITORING COST**

This account consists primarily of costs incurred in conducting monitoring as required by DEP. The services of a hydrogeologist used for various purposes from time to time are charged to A/C #488.850 under the General Expenses category.

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

**440. 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.

**440. 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**

	2012	2013	2014	2015	2016	2017	2018	2019		2020	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
<b>STORAGE-DALE ST RESERVOIR</b>											
455.341 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
455.342 Power Purchased	150	149	150	161	170	182	183	200	170	200	200
455.343 Equipment Maintenance	4	85	26	0	0	26	0	300	913	913	300
455.344 Structure Maintenance	0	4,955	3,761	8	0	12	0	300	45	45	300
<b>Subtotal</b>	<b>154</b>	<b>5,189</b>	<b>3,937</b>	<b>169</b>	<b>170</b>	<b>220</b>	<b>183</b>	<b>800</b>	<b>1,128</b>	<b>1,158</b>	<b>800</b>
<b>STORAGE-STRUBLE RD TANK</b>											
456.351 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0	0
456.352 Power Purchased	231	197	278	231	257	322	260	275	254	275	275
456.353 Equipment Maintenance	68	0	20	68	0	0	101	250	0	100	100
456.354 Structure Maintenance	0	0	0	0	0	19	62	200	909	1,000	200
<b>Subtotal</b>	<b>299</b>	<b>197</b>	<b>298</b>	<b>299</b>	<b>257</b>	<b>341</b>	<b>423</b>	<b>725</b>	<b>1,163</b>	<b>1,375</b>	<b>575</b>
<b>MAINTENANCE-DISTRIBUTION SYSTEM</b>											
460.475 Maintenance of Distribution / Trans Mains	23,601	17,111	23,887	18,323	56,404	17,317	20,339	21,500	3,791	4,800	17,500
460.490 Maintenance of Service Lines	9,652	6,689	14,911	12,835	8,249	17,825	11,464	12,175	7,389	7,900	8,000
460.495 Dumping Fees	1	2,943	1,890	1,079	998	2,951	2,520	3,275	1,743	1,950	1,980
460.510 Maintenance of Hydrants	95	4,044	821	39	3,190	1,091	4,182	1,850	738	850	1,500
460.530 Meter Supplies and Maintenance	1,535	945	891	2,571	3,125	628	4,213	3,100	4,539	4,550	3,750
460.532 PRV - Penn Hills	1,122	937	48	2	2,013	0	0	100	0	0	100
460.534 PRV - Independence Place	881	52	0	1,059	7,263	0	0	100	0	0	100
460.536 PRV - Oak Hall	320	3	812	72	2,775	0	0	200	0	0	200
460.537 PRV - Rockview North	1,103	61	0	738	10	9	0	100	9	0	100
460.538 PRV - Rockview South	0	0	214	147	0	0	0	100	0	0	100
460.539 PRV - Bellefonte Interconnect	129	216	0	0	0	0	0	100	0	0	100
460.541 PRV - Nittany Commons	909	0	0	0	0	0	0	100	0	0	100
<b>Subtotal</b>	<b>39,348</b>	<b>33,001</b>	<b>43,474</b>	<b>36,865</b>	<b>84,027</b>	<b>39,821</b>	<b>42,718</b>	<b>42,700</b>	<b>18,209</b>	<b>20,050</b>	<b>33,530</b>
<b>GENERAL-DISTRIBUTION SYSTEM</b>											
465.181 Contract Labor - College Twp Personnel	53,059	28,386	29,114	25,767	34,572	30,991	40,934	35,900	29,691	32,700	35,000
465.540 Contract Labor - Technicians	146,517	126,541	141,299	143,397	136,088	158,679	168,888	161,825	148,161	161,750	186,000
465.556 Leak Detection Services	0	0	0	0	0	0	0	1,000	0	0	500
465.575 R-O-W, Regulatory Compliance	2,492	1,369	1,191	1,418	1,412	1,370	1,206	11,400	9,384	11,900	12,000
465.648 Pa One Call Service	1,386	586	663	594	806	904	772	1,000	797	880	900
465.760 Small Tools and Minor Equipment	9,018	1,898	1,974	2,036	2,357	2,090	1,128	2,000	1,487	1,800	8,900
465.761 Repairs and Maintenance-Water Equip	11,760	11,072	13,033	20,142	10,002	15,220	17,273	14,925	12,581	14,000	19,964
465.762 Safety Equipment	327	0	4	0	0	0	0	100	0	100	500
<b>Subtotal</b>	<b>224,559</b>	<b>169,852</b>	<b>187,278</b>	<b>193,354</b>	<b>185,237</b>	<b>209,254</b>	<b>230,201</b>	<b>228,150</b>	<b>202,101</b>	<b>223,130</b>	<b>263,764</b>
<b>TOTAL DISTRIBUTION SYSTEM</b>	<b>264,360</b>	<b>208,239</b>	<b>234,987</b>	<b>230,687</b>	<b>269,691</b>	<b>249,636</b>	<b>273,525</b>	<b>272,375</b>	<b>222,601</b>	<b>245,713</b>	<b>298,669</b>

**DISTRIBUTION SYSTEM EXPENSES**

**STORAGE – DALE STREET RESERVOIR**

**455.341      OPERATING SUPPLIES AND EXPENSE**

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

**455.342      POWER PURCHASED**

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

**455.343      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.

**455.344      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**

**456.351      OPERATING SUPPLIES AND EXPENSE**

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

## DISTRIBUTION SYSTEM EXPENSES

### **456.352 POWER PURCHASED**

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

### **455.353 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.

### **455.354 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**

#### **460.475 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

### **460.490 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.

### **460.495 DUMPING FEES**

Excavated waste material from project and maintenance work is hauled to the CMJ Trucking & Construction fill site along Shiloh Road. The current dumping fee is \$35.00 per truck load. It is estimated for 2020 that 65 truckloads of waste material will be hauled to the site for a total cost of \$2,275. 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.

### **460.510 MAINTENANCE OF HYDRANTS**

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

### **460.530 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.

### **460.532 PRV – PENN HILLS**

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

DISTRIBUTION SYSTEM EXPENSES

**460.534 PRV – INDEPENDENCE PLACE**

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

**460.536 PRV – OAK HALL**

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

**460.537 PRV - ROCKVIEW NORTH**

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

**460.538 PRV - ROCKVIEW SOUTH**

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

**460.539 PRV - BELLEFONTE INTERCONNECT**

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

**460.541 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

#### **465.181 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. Labor cost associated with capital projects is added to the cost of the project.

#### **465.540 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. Labor cost associated with capital projects is added to the cost of the project.

#### **465.556 LEAK DETECTION SERVICES**

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

#### **465.575 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. Included in the budget amount is a Safe Water Drinking Fee (SDW) in the amount of \$10,000. This annual fee is assessed by the PA DEP and is based on population served.

#### **465.648 PA ONE CALL SERVICE**

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

## DISTRIBUTION SYSTEM EXPENSES

### **465.760 SMALL TOOLS AND MINOR EQUIPMENT**

This line item covers the cost of acquiring and maintaining small tools used in every day operation. Also includes the following items that replace obsolete tools:

Pipe and Cable Locator - \$2,900  
2" Piercing Tool Hole Hog - \$4,000

### **465.761 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 2020, the following costs are anticipated:

#### **Hach Company Service Agreement - \$5,000**

This agreement will 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. 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 - \$5,300**

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. \$2,000 has been included for any unexpected repairs.

<b>Tri-Star Agreement</b>	<b>\$3,300</b>
<b>Repairs/Parts</b>	<b><u>\$2,000</u></b>
	<b>\$5,300</b>

**De Nora Service and Maintenance Plan - \$5,164**

De Nora Water Technologies, LLC has previously provided annual inspection and preventative maintenance on the Chlorination System and has provided a proposal to continue for the next five (5) years. Each year, services include inspection and general maintenance as well as an estimate for replacement parts.

<b>De Nora Service and Maintenance Plan</b>	<b>\$2,000</b>
<b>Repairs/Parts</b>	<b><u>\$3,164</u></b>
	<b>\$5,164</b>

**Cleveland Brothers Generator Maintenance Plan - \$1,500**

This service and maintenance plan provides one visit per calendar year to perform inspections and preventative maintenance on the trailer mounted standby generator and the Lemont Booster Station standby generator.

**Pryze Chemical Feed Pump Service - \$3,000**

This agreement covers the maintenance of the chemical feed pumps at Spring Creek Well, Rogers Well, and Oak Hall Well.

## DISTRIBUTION SYSTEM EXPENSES

### **465.762 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 2020 that will serve to increase safety in the work place.

## General Expenses

**GENERAL EXPENSES**

	2012	2013	2014	2015	2016	2017	2018	2019		2020	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
<b>OFFICE</b>											
482.600 Contract Labor - Billing and Cust Serv	54,269	58,115	55,398	54,168	55,600	57,875	60,270	62,600	57,677	62,500	63,800
482.605 Contract Labor - College Twp Personnel	12,809	12,856	13,735	14,139	11,544	14,205	16,378	15,000	14,547	15,800	16,500
482.610 Contract Labor - Meter Reading	6,836	7,880	9,868	4,694	2,376	2,599	2,308	2,700	2,184	2,440	2,800
482.612 Professional Employment Services	0	0	0	0	0	8	0	0	0	0	0
482.620 Office and Other Supplies	2,661	1,949	2,562	2,810	1,498	2,321	1,829	2,200	1,597	1,800	2,100
482.621 Computer and Software Maintenance	5,271	4,493	4,568	6,471	4,888	4,775	0	0	0	0	0
482.625 Postage and Freight Charges	4,963	5,277	5,400	5,441	5,492	5,123	5,936	6,000	4,963	5,450	5,600
482.641 Advertising	212	1,263	286	1,013	372	1,222	227	900	1,923	1,923	1,000
482.643 IT Services/Support/Software	1,674	2,094	1,778	2,641	2,330	2,960	9,075	9,100	4,454	7,500	8,100
482.645 Telephone	2,450	2,052	2,134	1,885	937	812	1,027	900	961	1,080	1,000
482.647 Cellular Phone	633	712	939	575	610	692	588	700	436	500	650
482.655 Uncollectible Accounts	5,660	4,161	27,603	3,478	-1,145	-252	-1,087	0	0	0	0
<b>Subtotal</b>	<b>97,438</b>	<b>100,852</b>	<b>124,271</b>	<b>97,315</b>	<b>84,502</b>	<b>92,340</b>	<b>96,551</b>	<b>100,100</b>	<b>88,742</b>	<b>98,993</b>	<b>101,550</b>
<b>GENERAL PROPERTY</b>											
485.702 Vehicle Repairs and Maintenance	3,110	4,315	3,969	3,300	1,479	1,129	8,268	3,000	3,362	3,750	3,000
485.731 Vehicle Fuels: Gas, Diesel, Oil, Etc	9,022	10,170	10,716	6,761	5,370	5,199	6,627	6,700	5,853	6,550	6,800
485.735 Repairs of Tools and Machinery	563	991	483	416	732	2,760	657	900	1,147	1,250	1,000
485.740 Materials and Supplies	2,219	7,226	3,026	945	1,588	305	2,487	2,300	7,888	8,000	3,000
485.765 Radio/Paging Equipment and Maint	0	0	0	152	0	0	68	100	0	100	100
485.770 Rental of Equipment	910	1,275	5,955	8,490	3,349	4,165	4,903	4,500	6,015	7,000	5,000
<b>Subtotal</b>	<b>15,824</b>	<b>23,977</b>	<b>24,149</b>	<b>20,064</b>	<b>12,518</b>	<b>13,558</b>	<b>23,010</b>	<b>17,500</b>	<b>24,265</b>	<b>26,650</b>	<b>18,900</b>
<b>ENGINEERING AND PROFESSIONAL</b>											
488.810 Engineering - Consulting	40,333	24,285	32,470	32,616	48,009	31,138	49,875	37,500	33,322	35,750	36,000
488.818 Engineering - Inspection	0	0	4,387	0	0	0	0	0	0	0	0
488.840 Accounting and Audit	14,684	14,810	18,187	16,000	13,450	14,545	12,250	16,000	12,250	16,000	16,000
488.845 Legal	7,516	12,669	7,722	7,261	5,899	6,933	5,369	6,500	4,200	5,000	6,500
488.850 Professional - Other	1,200	1,200	1,200	1,914	3,482	4,117	9,114	4,000	14,989	16,000	6,000
<b>Subtotal</b>	<b>63,733</b>	<b>52,964</b>	<b>63,966</b>	<b>57,791</b>	<b>70,840</b>	<b>56,733</b>	<b>76,608</b>	<b>64,000</b>	<b>64,761</b>	<b>72,750</b>	<b>64,500</b>

**GENERAL EXPENSES**

	2012	2013	2014	2015	2016	2017	2018	2019		2020	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
<b>TAXES, BENEFITS, AND INSURANCE</b>											
491.615 Training - Distribution and Office	0	1,377	1,465	1,725	1,275	1,125	1,020	1,200	547	550	1,200
491.618 Conventions	1,020	0	0	0	0	0	0	500	485	485	500
491.738 Clothing and Uniforms	2,263	2,973	2,450	2,434	2,628	1,710	1,962	2,500	1,946	2,100	2,200
491.802 Dues, Subscriptions, and Memberships	2,260	2,487	2,493	2,499	2,705	2,711	2,717	2,800	2,723	2,725	2,800
491.855 Insurance Policies	25,384	32,294	27,546	16,206	19,285	16,545	17,691	20,000	19,318	19,318	21,000
491.858 Workers' Compensation Insurance	7,259	10,151	10,651	12,128	11,113	9,817	9,134	10,000	10,251	10,251	11,000
491.860 Pension Expense	15,351	15,737	16,300	16,780	16,213	14,068	16,638	19,747	15,995	17,300	19,800
491.865 Bond	0	0	152	141	164	164	164	175	170	170	175
491.870 Medical / Dental / Vision Insurance	78,083	87,833	100,158	110,066	104,515	110,742	125,297	132,750	165,848	165,900	154,000
491.871 Health Insurance Opt-Out Program	3,209	3,326	3,796	4,189	4,377	2,867	2,234	2,500	192	192	0
491.875 Group Term Life/Disability Insurance	4,127	4,036	3,079	3,208	3,138	3,768	3,631	3,000	2,631	2,900	3,200
491.880 Payroll Taxes - FICA	20,041	19,427	18,582	18,822	18,145	19,705	21,790	21,000	19,984	21,700	21,800
491.881 Unemployment Compensation Insurance	647	2,943	4,292	3,246	2,218	832	1,195	1,200	1,248	1,248	2,265
<b>Subtotal</b>	<b>159,644</b>	<b>182,584</b>	<b>190,964</b>	<b>191,444</b>	<b>185,776</b>	<b>184,054</b>	<b>203,473</b>	<b>217,372</b>	<b>241,338</b>	<b>244,839</b>	<b>239,940</b>
<b>MISCELLANEOUS</b>											
494.885 Operational and Management Agreement	78,960	81,540	83,556	85,872	88,560	91,392	94,212	104,616	95,898	104,616	108,192
494.470 Miscellaneous	2	6	89	15,118	2,011	86	1,729	600	86	200	600
494.460 Board, Staff, and Professional Meetings	0	0	0	0	0	0	0	100	0	0	100
497.895 Loss (Gain) on Disposal of Assets	0	0	0	-	-	-	-	0	0	0	0
<b>Subtotal</b>	<b>78,962</b>	<b>81,546</b>	<b>83,645</b>	<b>100,990</b>	<b>90,571</b>	<b>91,478</b>	<b>95,941</b>	<b>105,316</b>	<b>95,984</b>	<b>104,816</b>	<b>108,892</b>
<b>TOTAL GENERAL EXPENSE</b>	<b>415,601</b>	<b>441,923</b>	<b>486,995</b>	<b>467,604</b>	<b>444,207</b>	<b>438,163</b>	<b>495,583</b>	<b>504,288</b>	<b>515,090</b>	<b>548,048</b>	<b>533,782</b>

GENERAL EXPENSES

**OFFICE**

**482.600      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 50% of the Tax & Finance Office Assistant's wages. In prior years, prior to reassignment of EIT collection to the Centre Tax Agency, a larger percentage of the Tax & Finance Office Assistant's wages were allocated to the tax department.

**482.605      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.

**482.610      CONTRACT LABOR – METER READER**

This line item covers the wages incurred for the part-time meter reader (non-exempt) which requires approximately 200 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.

**482.612      PROFESSIONAL EMPLOYMENT SERVICES**

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

GENERAL EXPENSES

**482.620 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.

**482.621 COMPUTER AND SOFTWARE MAINTENANCE**

Please refer to the narrative for 482.643.

**482.625 POSTAGE AND SHIPPING CHARGES**

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

**482.641 ADVERTISING**

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

**482.643 IT SERVICE / SUPPORT / SOFTWARE**

Beginning with 2018, this account captured all costs associated with information technology support, service, and software that is not capital in nature (i.e. new acquisition).

GENERAL EXPENSES

**482.645 TELEPHONE**

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

**482.647 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.

**482.655 UNCOLLECTIBLE ACCOUNTS**

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

**GENERAL PROPERTY**

**485.702 VEHICLE REPAIRS AND MAINTENANCE**

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.

**485.731 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.

**GENERAL EXPENSES**

**485.735      REPAIRS OF TOOLS AND MACHINERY**

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

**485.740      MATERIALS AND SUPPLIES**

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

**485.765      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.

**485.770      RENTAL OF EQUIPMENT**

This line item covers the cost of equipment rental in emergency type situations. Equipment rented from the Township is based on an equipment rental rate schedule. Rental cost associated with projects is included in the cost of the project.

**ENGINEERING AND PROFESSIONAL**

**488.810      ENGINEERING - CONSULTING**

## GENERAL EXPENSES

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.

### **488.840      ACCOUNTING AND AUDIT**

Outside auditor services in auditing the Authority's 2019 financial statements and preparing the 2019 Annual Report of Municipal Authorities is expected to cost \$13,500. An estimate of \$2,500 is included for professional consultation on other financial issues.

### **488.845      LEGAL**

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

### **448.850      PROFESSIONAL - OTHER**

In 2017, 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 there will be an outlay of approximately \$1,000, representing the Authority's share of the cost of maintaining a web site developed by the Water Resources Monitoring Committee regarding source water education.

## GENERAL EXPENSES

### TAXES, BENEFITS, AND INSURANCE

#### **491.615 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.

#### **491.618 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.

#### **491.738 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.

#### **491.802 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.

## GENERAL EXPENSES

### **491.855 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.

### **491.858 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.

### **491.860 PENSION EXPENSE**

This line item covers the Authority's share of the cost of providing a pension for the Township employees. The amount budgeted is based on the Minimum Municipal Obligation (MMO) Certification that is completed in September, annually.

### **491.865 BOND**

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

### **491.870 MEDICAL/ DENTAL/VISION INSURANCE**

GENERAL EXPENSES

**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 2014 - 2020 prior to employee contributions are as follows:

	Health		Dental	
	<u>Single</u>	<u>Family</u>	<u>Single</u>	<u>Family</u>
2020	1,167.62	2,745.41	28.09	90.33
2019	1,251.99	2,923.91	27.40	88.13
2018	1,114.03	2,590.48	27.40	88.13
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

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

**491.871 HEALTH INSURANCE OPT-OUT PROGRAM**

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

## GENERAL EXPENSES

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.

### **491.875      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.

### **491.880      PAYROLL TAXES – FICA**

This item covers the Authority's share of the social security and Medicare taxes on employee wages. The 2020 social security rate is 6.2% of gross earnings up to \$137,700 per employee. The 2020 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.

### **491.881      UNEMPLOYMENT COMPENSATION INSURANCE**

This covers the Authority's share of unemployment insurance, which is calculated to be 3.5% of an employee's first \$10,000 of earnings.

## **MISCELLANEOUS**

### **494.460      BOARD, STAFF AND PROFESSIONAL MEETINGS**

GENERAL EXPENSES

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

**494.470 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.

**494.885 OPERATIONAL AND MANAGEMENT AGREEMENT**

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 \$9,016 per month.

## Non-Operating Income (Expense)

**NON-OPERATING INCOME (EXPENSE)**

	2012	2013	2014	2015	2016	2017	2018	2019		2020	
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	YTD 11/30	EXPECTED	PROPOSED
<b>NON-OPERATING INCOME (EXPENSE)</b>											
341.000 Investment Income	949	7,383	8,679	8,384	1,857	21,885	22,027	25,000	28,123	30,212	21,250
	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0
<b>NET NON-OPERATING INCOME (EXP)</b>	<b>949</b>	<b>7,383</b>	<b>8,679</b>	<b>8,384</b>	<b>1,857</b>	<b>21,885</b>	<b>22,027</b>	<b>25,000</b>	<b>28,123</b>	<b>30,212</b>	<b>21,250</b>

NON-OPERATING INCOME

**341.000**      **INVESTMENT INCOME**

This category accounts for interest earnings generated from carrying balances in Authority bank accounts as well as short term and long term investment of surplus funds in allowable investments.

# Capital Budget

College Township Water Authority  
 PLANNED CONSTRUCTION PROJECTS AND CAPITAL ASSET PURCHASES FOR 2020

	2020 FUNDING		
	All Other Available Funds	CNB Drawdown Loan	Total
<u>Water System Upgrade Projects</u>			
Clyde Avenue Loop + Replace	\$ -	\$ 165,000	\$ 165,000
Everhart Service Line Replacement	\$ -	\$ 40,000	\$ 40,000
Oak Hall Well Development Continuation	\$ -	\$ 100,000	\$ 100,000
<u>Water System Maintenance/Repairs</u>			
	\$ -	\$ -	\$ -
	\$ -	\$ -	\$ -
<u>Capital Asset Purchases</u>			
Backflow Prevention Program and Commercial Meters	\$ 23,000	\$ -	\$ 23,000
2020 Ford F350 Xtra Cab 4x4 Utility Body Truck	\$ 40,779	\$ -	\$ 40,779
Chlorine Cylinder Scales Replacement	\$ 4,000	\$ -	\$ 4,000
<b>TOTALS</b>	<u>\$ 67,779</u>	<u>\$ 305,000</u>	<u>\$ 372,779</u>

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

1	Puddintown Road	\$ 80,000
2	Green Acres Lane to 6-8"	\$ 20,000
3	Rainlo Street, Oakwood Drive and Norle Street	\$ 20,000
4	Penn Hills PRV Vault Replacement	\$ 30,000
5	Elm St to Merryhill Rd 8" Ductile Iron	\$ 50,000
6	Rogers Well Turbidimeter	\$ 3,000
7	Replace Chlorine Vacuum Regulators (4 EA at \$1,409)	\$ 5,636
8	Lenape Lane	\$ 25,000
9	Struble Road Storage Tank Perimeter Security Fencing	\$ 25,000
10	Shady Dr to Rainlo St 8" Connection	\$ 50,000
11	8" RAW Water Tie-In to High Service Line - Mountain Rd	\$ 30,000
12	OH-20 CONTINUED Development	\$ 1,500,000
13	OH-20 Distribution Upgrades	\$ 1,000,000
14	Replace 6" AC Line Squirrel Drive	\$ 150,000
15	Single Axle Dump Truck	\$ 40,000
16	<b>Pike Street Improvements - due in 2021</b>	<b>\$ 85,000</b>
		<u>\$ 3,113,636</u>

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

**2020 WATER SYSTEM UPGRADE PROJECTS**

***NOTE: Estimates of Project Costs include contract costs, in-house labor, engineering, and other “soft” costs.***

**CLYDE AVENUE LOOP + REPLACEMENT - \$165,000**

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. (\$60,000)

Replace approximately 845 lineal feet of 6” PVC pipe that has been prone to breaks and leaks. (\$105,000)

**EVERHART SERVICE LINE REPLACEMENT - \$40,000**

Install approximately 1,400 LF of 2” CTS to relocate existing 1.5” Schedule 40 Glued PVC service line that is installed in Cedar Run. This line serves the Everhart property.

**OAK HALL WELL DEVELOPMENT CONTINUATION - \$100,000**

The following activities are expected to be performed in 2020 to continue the process of connecting Oak Hall Well (OH-20) to the distribution system: Discharge permits for pump test, conduct pump test (including water samples, and Dr. Parizek/Entech services during pump test. Costs are expected to be \$100,000 for the year.

**2020 WATER SYSTEM MAINTENANCE/REPAIRS**

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

2020 WATER SYSTEM MAINTENANCE/REPAIRS

2020 CAPITAL ASSET PURCHASES

**CROSS CONNECTION CONTROL/BACKFLOW PREVENTION PROGRAM - \$23,000**

This 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. Residential inspections are completed.

In 2018, CTWA completed the non-fire commercial meter inspections. In 2020, CTWA will continue to coordinate with PAWSC to complete the fire meter inspections and also start replacing commercial meters. CTWA has set aside approximately \$23,000 to address this issue. This includes \$13,000 to replace high use (top 15) commercial meters that are more than 10 years old.

**2020 FORD F350 XTRA CAB 4X4 UTILITY BODY TRUCK - \$52,779 (\$40,779 AFTER TRADE)**

This truck is replacing #61 2011 Ford F350 Utility Body. The utility body has storage compartments with storage trays and slide out drawers for fittings and tools. Comes with lighted compartments and strobe lights in the body and LineX spray floor protectant. The salvage value of the vehicle planned to be traded on this new truck is expected to be approximately \$12,000.

Truck and chassis w/o bed:	\$36,425
Truck Utility Body + Installation	<u>\$16,354</u>
	\$52,779

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

**REPLACEMENT OF CHLORINE CYLINDER SCALES - \$4,000**

Cost to replace the chlorine cylinders scales at Spring Creek Well.

**FUTURE PROJECTS**

**PUDDINTOWN ROAD - \$80,000**

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.

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

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

**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.

**PENN HILLS PRV VAULT REPLACEMENT - \$30,000**

Replace existing Penn Hills PRV Vault with larger vault and new 8" PRV Valve and appurtenances.

**CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES**

**ELM STREET TO MERRYHILL ROAD CONNECTION - \$50,000**

Install approximately 300 LF of 8" Ductile Iron Pipe to connect existing 8" water from Elm Street to Merryhill Road. Replace one service line connections.

**ROGERS WELL: TURBIDIMETER - \$3,000**

Replacement of the existing Hach 1720E Turbidimeter with the Hach TU5300 Turbidimeter.

**REPLACE CHLORINE VACUUM REGULATORS - \$5,636**

The service agreement for the Chlorine Gas Equipment recommended replacing our Vacuum Regulators. These are 4 EA and they cost \$1,409 each.

**LENAPE LANE LINE REPLACEMENT - \$25,000**

Replace approximately 700 LF of existing 2" Galvanized Steel Pipe with 2" CTS Pipe. Replace three service line connections.

**STRUBLE ROAD STORAGE TANK PERIMETER SECURITY FENCING - \$25,000**

Install perimeter security fencing with access gate at the driveway.

**SHADY DRIVE TO RAINLO STREET CONNECTION - \$50,000**

## CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

Install approximately 400 LF of 8" Ductile Iron Pipe along East Branch Road to connect existing 8" water from Shady Drive to Rainlo Street. Replace five service line connections.

### **MOUNTAIN ROAD TIE-IN - - \$30,000**

Tie-In existing abandoned 8" RAW Water Line from Chlorine Contact Tank to High Service Line. This will allow the 4" Asbestos Cement Line running along the power line from Thompson Street to Mountain Road to be abandoned in place.

### **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 - \$1,000,000**

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

### **REPLACE 6" AC LINE SQUIRREL DRIVE - \$150,000**

Replace approximately 1,345 LF of 6" AC pipe on Squirrel Drive from E. College Avenue to Oakridge Avenue to improve fire flow to the higher elevation of Oakridge Avenue.

### **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.

### **PIKE STREET IMPROVEMENTS (DUE IN 2021) - \$85,000**

## 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



CTWA-2015 - CMB Audit

Settle December 8

College Township Water Authority  
Serial Obligation Note, Series of 2015  
All Issue

Date	Principal	Rate	Interest	Debt Service	Debt Service	Annual Debt Service	Less: Deposit to Debt Service Fund	Annual Net Debt Service	Existing Annual Net Debt Service	Difference
30	31	32	33	34	35	36	37	38	39	
12/8/2015					0.00			360,731.46	360,731.46	
1/1/2016	487,700	1.98	111,650.00	111,650.00	698,350.00	111,650.00	99,000.00	487,700.00	715,405.57	227,705.57
1/1/2017	528,700	1.98	94,171.77	622,871.77	717,043.54	717,043.54	714,830.57	-2,212.97		
1/1/2018	539,100	1.98	88,937.64	88,937.64	716,975.28	716,975.28	717,870.57	895.29		
1/1/2019	549,800	1.98	83,600.55	633,400.55	717,001.10	717,001.10	714,095.57	-2,905.53		
1/1/2020	560,700	1.98	78,157.53	638,857.53	717,015.06	717,015.06	719,060.57	2,045.51		
1/1/2021	498,400	2.98	109,276.60	607,676.60	716,953.20	716,953.20	717,395.57	442.37		
1/1/2022	513,300	2.98	101,850.44	615,160.44	717,000.88	717,000.88	714,715.57	-2,285.31		
1/1/2023	528,600	2.98	94,202.27	622,802.27	717,004.54	717,004.54	715,723.07	-1,281.47		
1/1/2024	544,300	2.98	86,326.13	630,626.13	716,952.26	716,952.26	715,465.57	-1,486.69		
1/1/2025	560,600	2.98	78,216.06	638,816.06	717,032.12	717,032.12	718,903.07	1,870.95		
1/1/2026	544,400	3.68	86,273.92	630,673.92	716,947.84	716,947.84	716,103.07	-844.77		
1/1/2027	564,500	3.68	76,256.96	640,756.96	717,013.92	717,013.92	717,233.07	219.15		
1/1/2028	585,300	3.68	65,870.16	651,170.16	717,040.32	717,040.32	716,433.07	-607.25		
1/1/2029	606,800	3.68	55,100.64	661,900.64	717,001.28	717,001.28	161,837.89	-555,163.39		
1/1/2030	629,100	3.68	43,935.52	673,035.52	716,971.04	716,971.04	-716,971.04			
1/1/2031	643,500	4.18	36,756.83	680,256.83	717,013.66	717,013.66	-717,013.66			
1/1/2032	516,300	4.18	23,307.68	539,607.68	562,915.36	562,915.36	-562,915.36			
1/1/2033	537,900	4.18	12,517.01	550,417.01	562,934.02	562,934.02	-562,934.02			
1/1/2034	61,000	4.18	1,274.90	62,274.90	63,549.80	63,549.80	-63,549.80			
1/1/2035										
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		

SEE IMPROVEMENTS  
NOT IN BOSTON



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 2018

Customer	Service Address	Billed Gallons	Usage	Fire Service	Gallons	Revenue	REVENUE
BVRE LP	1329 Dreibelbis St	6,981,000	\$ 46,773				\$ 46,773
Centre Concrete Company	2280 E. College Ave	6,789,000	\$ 45,486				\$ 45,486
Giant Food Stores	2222 E. College Ave	5,151,000	\$ 34,512	\$ 5,937			\$ 40,448
The Green Hotel	1221 E. College Ave	3,536,000	\$ 23,691	\$ 2,968			\$ 26,659
Channel Communications	2820 E. College Ave	3,128,000	\$ 20,958	\$ 5,937			\$ 26,894
Highland Holding Group	1357 E. College Ave	2,453,000	\$ 16,435	\$ 3,780			\$ 20,215
Hampton Inn	1101 E. College Ave	1,952,000	\$ 13,078	\$ 3,171			\$ 16,249
Wal-Mart Stores	373 Benner Pike	1,657,000	\$ 11,102	\$ 7,154			\$ 18,256
United Entertainment	125 Premiere Drive	1,530,000	\$ 10,251	\$ 1,890			\$ 12,141
Barn Brewing, LP	137 Elmwood Street	1,331,000	\$ 8,918				\$ 8,918

College Towns Water Authority  
Gallons Produced, Lost and Unaccounted

	Year Ended - December 31				
	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
Gallons Produced	292,382,000	273,193,100	272,008,000	257,886,000	286,578,000
Gallons Billed					
SCI-Rockview Penitentiary	50,000,000	50,000,000	50,000,000	50,000,000	50,000,000
UAJA-Beneficial Reuse	12,482,000	13,094,000	13,015,000	12,277,000	12,583,000
All Other	179,181,000	185,015,000	191,382,000	183,613,254	184,249,268
	241,663,000	248,109,000	254,397,000	245,890,254	246,832,268
Unaccounted Gallons *	11.90%	7.10%	23.50%	18.10%	15.00%

\* 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 and Rate History

	Year Ended - December 31				
	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
<b>WATER SYSTEM REVENUE</b>					
Metered Water Sales					
SCI-Rockview Penitentiary	136,500	18,261	-	-	-
UAJA-Beneficial Reuse	67,938	69,905	69,407	62,827	62,605
All Other					
Residential	722,125	816,931	848,849	795,855	802,613
Commercial	283,528	325,376	329,873	304,294	311,310
Industrial	53,253	70,739	79,172	72,643	61,122
Other Public	21,837	27,615	24,364	16,587	14,562
Total metered	<u>1,285,181</u>	<u>1,328,827</u>	<u>1,351,665</u>	<u>1,252,206</u>	<u>1,252,212</u>
Other Water System Revenues					
Fire Services	244,335	268,101	269,814	272,492	274,792
Other					
Penalties	16,006	15,285	14,894	14,490	15,454
Connection Fees	21,081	27,670	46,912	89,696	144,748
Meter Depreciation Charge	-	-	-	-	-
Other	5,078	5,730	3,948	21,968	14,068
Total Other	<u>286,500</u>	<u>316,786</u>	<u>335,568</u>	<u>398,646</u>	<u>449,062</u>
<b>TOTAL WATER SYSTEM REVENUE</b>	<u><u>1,571,681</u></u>	<u><u>1,645,613</u></u>	<u><u>1,687,233</u></u>	<u><u>1,650,852</u></u>	<u><u>1,701,274</u></u>

**RATE HISTORY (Per Thousand Gallons)**

Rockview	\$ 2.73	n/a	n/a	n/a	n/a
Beneficial Reuse	\$ 5.54	\$ 5.91	\$ 6.20	\$ 6.14	\$ 6.14
Regular	\$ 6.10	\$ 6.40	\$ 6.70	\$ 6.70	\$ 6.70

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

College Towns' Water Authority  
Other Key Statistics

	Year Ended - December 31				
	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
<b><u>Other Key Statistics</u></b>					
<b>Connections Served</b>					
Domestic	2,425	2,435	2,452	2,467	2,482
Commercial	306	308	306	307	312
Industrial	14	14	14	14	14
Institutional	16	15	15	15	15
Bulk Sales to other PWS	3	3	3	3	3
Other	-	-	-	-	-
	<u>2,764</u>	<u>2,775</u>	<u>2,790</u>	<u>2,806</u>	<u>2,826</u>
<b>Metered Water Use (GPD)</b>					
Domestic	328,012	333,770	346,158	325,437	325,369
Commercial	128,787	132,937	134,521	124,430	124,767
Industrial	24,189	28,901	32,286	29,705	24,871
Institutional	9,919	11,282	9,936	6,783	16,351
Bulk Sales to other PWS	35,397	11,890	10,306	16,816	17,170
Unaccounted	274,745	229,691	209,984	203,366	276,627
Other	-	-	-	-	-
	<u>801,049</u>	<u>748,471</u>	<u>743,191</u>	<u>706,537</u>	<u>785,155</u>
<b>% of Population Served</b>	<b>63.86%</b>	<b>61.45%</b>	<b>64.48%</b>	<b>60.65%</b>	<b>61.45%</b>

(1) Source: Annual Water Supply Report

(2) Source: Audit Reports

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	\$53,779	\$5,378
2012	2012 CHEVY VAN #64	\$28,925	10	2022	\$32,000	\$3,200
2015	2015 FORD F-150 #72	\$30,600	10	2025	\$34,000	\$3,400
	<b>TOTALS:</b>	\$97,375			\$119,779	\$11,978
<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

