

2021 BUDGET – COLLEGE TOWNSHIP WATER AUTHORITY



Table of Contents

1. Budget Summary
2. Operating Income
3. Pumping and Purification Expenses
4. Distribution System Expenses
5. General Expenses
6. Non-Operating Income (Expense)
7. Capital Budget
8. Appendix

Operating Budget Summary

**COLLEGE TOWNSHIP WATER AUTHORITY
YEAR 2021 OPERATING BUDGET SUMMARY**

OPERATING BUDGET SUMMARY

	2013	2014	2015	2016	2017	2018	2019	2020		2021
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
OPERATING INCOME										
Water System Revenues	1,672,358	1,571,681	1,645,614	1,687,234	1,650,852	1,701,274	1,689,745	1,729,541	1,689,000	1,743,514 (a)
OPERATING EXPENSES										
Purification and Pumping	112,442	94,433	94,439	99,054	120,315	122,243	135,507	129,380	140,930	132,430
Distribution System	208,239	234,987	230,687	269,691	249,636	273,525	253,208	298,669	295,750	308,664
General Expense	441,923	486,995	467,604	444,207	438,163	495,583	543,750	533,782	548,326	535,129
TOTAL OPERATING EXPENSES	<u>762,604</u>	<u>816,415</u>	<u>792,730</u>	<u>812,952</u>	<u>808,114</u>	<u>891,351</u>	<u>932,465</u>	<u>961,831</u>	<u>985,006</u>	<u>976,223 (b)</u>
OPERATING MARGIN	909,754	755,266	852,884	874,282	842,738	809,923	757,280	767,710	703,994	767,291
NON-OPERATING INCOME (EXPENSE)	7,383	8,679	8,384	1,857	21,885	22,027	30,850	21,250	20,000	15,000 (c)
INCOME BEFORE DEBT SERVICE	<u>917,137</u>	<u>763,945</u>	<u>861,268</u>	<u>876,139</u>	<u>864,623</u>	<u>831,950</u>	<u>788,130</u>	<u>788,960</u>	<u>723,994</u>	<u>782,291</u>
LESS: Debt Service Requirement										606,136 (d)
AVAILABLE FOR CAPITAL, CONTINGENCIES AND RESERVE										<u><u>176,155</u></u>

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	1,743,514 (a)
Investment Income	<u>15,000 (c)</u>
	1,758,514
Administrative and operating expenses	976,223 (b)
Debt Service	606,136 (d)
10% of Debt Service	<u>60,614</u>
	<u><u>1,642,973</u></u>
Excess Coverage	<u><u>115,541</u></u>

Operating Income

OPERATING INCOME

	2013	2014	2015	2016	2017	2018	2019	2020		2021
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
<u>WATER SYSTEM REVENUES</u>										
METERED WATER REVENUES										
350.110 Metered Water Revenues - Residential	751,800	722,125	816,931	848,850	795,855	802,614	819,310	843,500	902,000	910,000
350.120 Metered Water Revenues - Commercial	302,268	283,528	325,376	329,873	304,294	311,310	323,348	336,280	263,000	266,000
350.130 Metered Water Revenues - Industrial	72,095	53,253	70,739	79,172	72,643	61,122	72,893	77,280	92,000	92,400
350.140 Metered Water Revenues - Other Public	27,831	21,837	27,615	24,364	16,587	14,562	24,427	26,250	23,000	23,100
350.141 Metered Water Revenues - SCI Rockview	136,125	136,500	18,261	0	0	0	0	0	0	0
350.142 Metered Water Revenues - UAJA BRW	78,424	67,938	69,905	69,407	62,827	62,605	63,289	65,351	56,100	59,529
Subtotal	1,368,543	1,285,181	1,328,827	1,351,666	1,252,206	1,252,213	1,303,267	1,348,661	1,336,100	1,351,029
FIRE SERVICES										
360.405 Fire Services - CTWA Hydrants	85,885	86,531	94,579	95,290	96,102	97,116	99,247	101,500	101,500	101,906
360.410 Fire Services - Private Hydrants	4,681	4,681	5,725	6,264	5,280	7,311	5,725	5,424	5,900	6,102
360.420 Fire Services - Sprinkler Fire Lines	152,112	153,123	167,796	168,260	171,110	170,365	172,733	172,156	177,200	182,577
Subtotal	242,678	244,335	268,100	269,814	272,492	274,792	277,706	279,080	284,600	290,585
OTHER WATER RELATED REVENUES										
370.300 Penalties	16,497	16,006	15,285	14,894	14,490	15,454	14,552	15,000	17,400	16,000
370.500 Water Main Connection Fees	23,874	21,081	27,671	46,912	89,696	144,748	77,303	70,000	35,000	70,000
370.515 Meter Depreciation Charge	0	0	0	0	0	11,298	11,376	11,400	11,400	11,400
370.000 Miscellaneous	20,766	5,078	5,731	3,948	21,968	2,769	5,542	5,400	4,500	4,500
Subtotal	61,137	42,165	48,687	65,754	126,154	174,269	108,773	101,800	68,300	101,900
TOTAL WATER SYSTEM REVENUES	1,672,358	1,571,681	1,645,614	1,687,234	1,650,852	1,701,274	1,689,745	1,729,541	1,689,000	1,743,514

OPERATING REVENUES

METERED WATER REVENUE

Effective January 1, 2021, 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 0% increase over last year's rate of \$7.00.

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 2021 will be \$6.32 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 2021, along with the estimated 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	2,486	130,000,000	\$910,000
Commercial	332	38,000,000	266,000
Industrial	13	13,200,000	92,400
Other Public	<u>14</u>	<u>3,300,000</u>	<u>23,100</u>
	<u>2,845</u>	<u>184,500,000</u>	<u>\$ 1,291,500</u>
UAJA – Beneficial Reuse			
Cintas	1	6,750,000	\$42,729
Redline Speedshine	1	4,500,000	15,750
Best Western Motel	<u>1</u>	<u>300,000</u>	<u>1,050</u>
	<u>3</u>	<u>11,550,000</u>	<u>\$59,529</u>
TOTAL	<u>2,848</u>	<u>196,050,000</u>	<u>\$ 1,351,029</u>

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 2021:

<u>HYDRANTS</u>	<u>NUMBER</u>	<u>ANNUAL CHARGE</u>	<u>REVENUE</u>
Hydrants – Authority owned and maintained	251	\$ 406	<u>\$101,906</u>
Hydrants – Privately owned and maintained	18	\$ 339	<u>\$ 6,102</u>
<u>STANDBY FIRE LINES</u>			
Sprinkler – 4” fire service	23	\$ 1,484	\$34,132
Sprinkler – 6” fire service	23	\$ 2,968	68,264
Sprinkler – 8” fire service	<u>13</u>	<u>\$ 5,937</u>	<u>77,181</u>
	59		<u>\$179,577</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

	2013 AUDITED	2014 AUDITED	2015 AUDITED	2016 AUDITED	2017 AUDITED	2018 AUDITED	2019 AUDITED	2020		2021
								BUDGET	EXPECTED	PROPOSED
<u>PURIFICATION EXPENSE</u>										
405.202 Chemical Purchases	20,157	21,056	20,594	18,469	26,667	27,816	33,276	37,000	28,500	29,500
405.204 Water Analysis	9,875	13,037	8,758	7,964	13,311	12,538	14,324	13,000	18,000	18,000
405.206 Structure Maintenance - Mt Nittany Contact T	0	0	0	0	0	0	0	0	0	0
TOTAL PURIFICATION	30,032	34,093	29,352	26,433	39,978	40,354	47,600	50,000	46,500	47,500
<u>PUMPING EXPENSE</u>										
PUDDINTOWN STATION										
410.311 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0
410.312 Power Purchased	0	0	0	74	99	104	105	120	120	120
410.313 Equipment Maintenance	0	0	0	0	0	0	0	0	0	0
410.314 Structure Maintenance	804	204	204	705	0	13	176	1,000	0	1,000
Subtotal	804	204	204	779	99	117	281	1,120	120	1,120
MATILDA BOOSTER STATION										
415.321 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0
415.322 Power Purchased	1,260	1,251	1,667	1,655	1,732	2,111	1,828	2,000	2,500	2,500
415.323 Equipment Maintenance	4,826	0	0	0	228	62	0	100	850	500
415.324 Structure Maintenance	445	0	0	0	244	0	0	100	0	100
Subtotal	6,531	1,251	1,667	1,655	2,204	2,173	1,828	2,200	3,350	3,100
LEMONT BOOSTER STATION										
420.331 Operating Supplies and Expense	0	0	0	0	0	0	0	0	50	0
420.332 Power Purchased	3,213	2,311	2,097	2,903	2,197	3,493	6,275	4,000	3,000	3,500
420.333 Equipment Maintenance	559	1	0	0	0	1,629	25	500	1,000	500
420.334 Structure Maintenance	295	342	622	193	2,898	2,457	1,522	2,000	0	2,000
Subtotal	4,067	2,654	2,719	3,096	5,095	7,579	7,822	6,500	4,050	6,000
SPRING CREEK PARK WELL										
425.361 Operating Supplies and Expense	0	0	0	0	0	63	0	0	250	0
425.362 Power Purchased	23,364	21,318	23,934	25,175	22,510	25,032	32,242	31,000	28,000	30,000
425.363 Equipment Maintenance	9,017	427	2,014	3,768	8,407	1,265	1,361	3,500	10,500	4,000
425.364 Structure Maintenance	485	524	208	728	212	1,576	237	800	7,700	1,000
425.365 Well Monitoring Costs	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
Subtotal	38,476	27,879	31,766	35,281	36,739	33,546	39,449	40,910	52,060	40,610

PURIFICATION AND PUMPING EXPENSES

	2013	2014	2015	2016	2017	2018	2019	2020		2021
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
ROGERS WELL										
430.371 Operating Supplies and Expense	0	0	0	0	0	0	17	0	0	0
430.372 Power Purchased	25,472	24,575	24,561	25,211	29,245	30,015	23,334	21,000	29,000	29,000
430.373 Equipment Maintenance	3,366	911	3,350	5,009	3,838	1,211	121	2,500	3,700	2,500
430.374 Structure Maintenance	713	0	0	539	1,694	0	0	600	200	600
430.375 Well Monitoring Costs	2,981	2,700	0	0	146	6,200	12,779	3,000	800	800
Subtotal	32,532	28,186	27,911	30,759	34,923	37,426	36,251	27,100	33,700	32,900
OAK HALL WELL										
435.391 Operating Supplies and Expense	0	65	281	16	21	11	1,087	150	0	0
435.392 Power Purchased	0	35	539	334	560	681	710	700	700	700
435.393 Equipment Maintenance	0	66	0	625	522	338	412	400	300	300
435.394 Structure Maintenance	0	0	0	76	174	18	47	100	0	0
435.395 Well Monitoring Costs	0	0	0	0	0	0	18	0	0	0
Subtotal	0	166	820	1,051	1,277	1,048	2,275	1,350	1,000	1,000
INTERCONNECTIONS - SCBWA ,PSU, and BELLEFONTE										
440.386 Purchased Water	0	0	0	0	0	0	0	100	0	100
440.388 Interconnection Maintenance	0	0	0	0	0	0	0	100	150	100
Subtotal	0	0	0	0	0	0	0	200	150	200
TOTAL PUMPING	82,410	60,340	65,087	72,621	80,337	81,889	87,907	79,380	94,430	84,930
TOTAL PURIFICATION AND PUMPING	112,442	94,433	94,439	99,054	120,315	122,243	135,507	129,380	140,930	132,430

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. Included is a blower assembly (\$1,000). The blower assembly ensures proper operation of the exhaust fan.

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

PURIFICATION AND PUMPING EXPENSES

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

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

PURIFICATION AND PUMPING EXPENSES

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

Distribution System Expenses

DISTRIBUTION SYSTEM EXPENSES

	2013	2014	2015	2016	2017	2018	2019	2020		2021
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
STORAGE-DALE ST RESERVOIR										
455.341 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0
455.342 Power Purchased	149	150	161	170	182	183	186	200	200	200
455.343 Equipment Maintenance	85	26	0	0	26	0	927	300	150	200
455.344 Structure Maintenance	4,955	3,761	8	0	12	0	45	300	0	200
Subtotal	5,189	3,937	169	170	220	183	1,159	800	350	600
STORAGE-STRUBLE RD TANK										
456.351 Operating Supplies and Expense	0	0	0	0	0	0	0	0	0	0
456.352 Power Purchased	197	278	231	257	322	260	274	275	300	300
456.353 Equipment Maintenance	0	20	68	0	0	101	0	100	0	100
456.354 Structure Maintenance	0	0	0	0	19	62	909	200	950	300
Subtotal	197	298	299	257	341	423	1,183	575	1,250	700
MAINTENANCE-DISTRIBUTION SYSTEM										
460.475 Maintenance of Distribution / Trans Mains	17,111	23,887	18,323	56,404	17,317	20,339	10,305	17,500	14,500	15,000
460.490 Maintenance of Service Lines	6,689	14,911	12,835	8,249	17,825	11,464	7,964	8,000	8,500	8,250
460.495 Dumping Fees	2,943	1,890	1,079	998	2,951	2,520	1,743	1,980	500	1,500
460.510 Maintenance of Hydrants	4,044	821	39	3,190	1,091	4,182	2,738	1,500	750	750
460.530 Meter Supplies and Maintenance	945	891	2,571	3,125	628	4,213	4,713	3,750	5,000	4,250
460.532 PRV - Penn Hills	937	48	2	2,013	0	0	0	100	0	0
460.534 PRV - Independence Place	52	0	1,059	7,263	0	0	0	100	0	0
460.536 PRV - Oak Hall	3	812	72	2,775	0	0	0	200	0	0
460.537 PRV - Rockview North	61	0	738	10	9	0	0	100	0	0
460.538 PRV - Rockview South	0	214	147	0	0	0	0	100	0	0
460.539 PRV - Bellefonte Interconnect	216	0	0	0	0	0	0	100	0	0
460.541 PRV - Nittany Commons	0	0	0	0	0	0	0	100	0	0
Subtotal	33,001	43,474	36,865	84,027	39,821	42,718	27,463	33,530	29,250	29,750
GENERAL-DISTRIBUTION SYSTEM										
465.181 Contract Labor - College Twp Personnel	28,386	29,114	25,767	34,572	30,991	40,934	30,923	35,000	34,000	35,000
465.540 Contract Labor - Technicians	126,541	141,299	143,397	136,088	158,679	168,888	157,950	186,000	192,000	199,500
465.556 Leak Detection Services	0	0	0	0	0	0	0	500	0	500
465.575 R-O-W, Regulatory Compliance	1,369	1,191	1,418	1,412	1,370	1,206	11,934	12,000	15,250	15,250
465.648 Pa One Call Service	586	663	594	806	904	772	872	900	500	500
465.760 Small Tools and Minor Equipment	1,898	1,974	2,036	2,357	2,090	1,128	4,777	8,900	8,000	5,000
465.761 Repairs and Maintenance-Water Equip	11,072	13,033	20,142	10,002	15,220	17,273	16,947	19,964	15,000	21,364
465.762 Safety Equipment	0	4	0	0	0	0	0	500	150	500
Subtotal	169,852	187,278	193,354	185,237	209,254	230,201	223,404	263,764	264,900	277,614
TOTAL DISTRIBUTION SYSTEM	208,239	234,987	230,687	269,691	249,636	273,525	253,208	298,669	295,750	308,664

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.

456.353 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.

456.354 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 2021 that 14 truckloads of waste material will be hauled to the site for a total cost of \$500. 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:

The current Sensus data collector that is used to read meters will no longer be supported in 2021. There are compatible models at approximately two-thirds the cost of the newest Sensus model. A total of \$5,000 is budgeted for a new data collector in 2021.

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 2021, the following costs are anticipated:

Hach Company Service Agreement - \$6,200

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 - \$5,500

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.

Tri-Star Agreement	\$3,500
Repairs/Parts	<u>\$2,000</u>
	\$5,500

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. Each year, services include inspection and general maintenance as well as an estimate for replacement parts.

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

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 2021 that will serve to increase safety in the work place.

General Expenses

GENERAL EXPENSES

	2013	2014	2015	2016	2017	2018	2019	2020		2021
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
OFFICE										
482.600 Contract Labor - Billing and Cust Serv	58,115	55,398	54,168	55,600	57,875	60,270	62,894	63,800	68,000	69,000
482.605 Contract Labor - College Twp Personnel	12,856	13,735	14,139	11,544	14,205	16,378	15,881	16,500	12,500	14,000
482.610 Contract Labor - Meter Reading	7,880	9,868	4,694	2,376	2,599	2,308	2,487	2,800	0	0
482.612 Professional Employment Services	0	0	0	0	8	0	0	0	0	0
482.620 Office and Other Supplies	1,949	2,562	2,810	1,498	2,321	1,829	1,661	2,100	2,500	2,250
482.621 Computer and Software Maintenance	4,493	4,568	6,471	4,888	4,775	0	149	0	0	0
482.625 Postage and Freight Charges	5,277	5,400	5,441	5,492	5,123	5,936	5,372	5,600	5,750	5,750
482.641 Advertising	1,263	286	1,013	372	1,222	227	1,923	1,000	1,700	1,500
482.643 IT Services/Support/Software	2,094	1,778	2,641	2,330	2,960	9,075	4,454	8,100	8,750	8,750
482.645 Telephone	2,052	2,134	1,885	937	812	1,027	1,048	1,000	1,000	1,000
482.647 Cellular Phone	712	939	575	610	692	588	513	650	650	650
482.655 Uncollectible Accounts	4,161	27,603	3,478	-1,145	-252	-1,087	834	0	0	0
Subtotal	100,852	124,271	97,315	84,502	92,340	96,551	97,217	101,550	100,850	102,900
GENERAL PROPERTY										
485.702 Vehicle Repairs and Maintenance	4,315	3,969	3,300	1,479	1,129	8,268	3,732	3,000	4,750	3,750
485.731 Vehicle Fuels: Gas, Diesel, Oil, Etc	10,170	10,716	6,761	5,370	5,199	6,627	7,255	6,800	5,500	5,750
485.735 Repairs of Tools and Machinery	991	483	416	732	2,760	657	1,147	1,000	1,000	1,000
485.740 Materials and Supplies	7,226	3,026	945	1,588	305	2,487	8,473	3,000	6,750	4,000
485.765 Radio/Paging Equipment and Maint	0	0	152	0	0	68	0	100	0	0
485.770 Rental of Equipment	1,275	5,955	8,490	3,349	4,165	4,903	6,615	5,000	5,750	5,500
Subtotal	23,977	24,149	20,064	12,518	13,558	23,010	27,222	18,900	23,750	20,000
ENGINEERING AND PROFESSIONAL										
488.810 Engineering - Consulting	24,285	32,470	32,616	48,009	31,138	49,875	34,974	36,000	60,000	36,000
488.818 Engineering - Inspection	0	4,387	0	0	0	0	0	0	0	0
488.840 Accounting and Audit	14,810	18,187	16,000	13,450	14,545	12,250	15,900	16,000	14,750	16,000
488.845 Legal	12,669	7,722	7,261	5,899	6,933	5,369	4,478	6,500	7,000	6,500
488.850 Professional - Other	1,200	1,200	1,914	3,482	4,117	9,114	14,989	6,000	0	6,000
Subtotal	52,964	63,966	57,791	70,840	56,733	76,608	70,341	64,500	81,750	64,500

GENERAL EXPENSES

	2013	2014	2015	2016	2017	2018	2019	2020		2021
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
TAXES, BENEFITS, AND INSURANCE										
491.615 Training - Distribution and Office	1,377	1,465	1,725	1,275	1,125	1,020	547	1,200	0	600
491.618 Conventions	0	0	0	0	0	0	675	500	1,980	2,100
491.738 Clothing and Uniforms	2,973	2,450	2,434	2,628	1,710	1,962	2,053	2,200	1,750	1,750
491.802 Dues, Subscriptions, and Memberships	2,487	2,493	2,499	2,705	2,711	2,717	2,723	2,800	2,800	2,850
491.855 Insurance Policies	32,294	27,546	16,206	19,285	16,545	17,691	19,318	21,000	18,530	19,450
491.858 Workers' Compensation Insurance	10,151	10,651	12,128	11,113	9,817	9,134	10,251	11,000	4,614	4,850
491.860 Pension Expense	15,737	16,300	16,780	16,213	14,068	16,638	17,300	19,800	21,350	22,000
491.865 Bond	0	152	141	164	164	164	170	175	170	175
491.870 Medical / Dental / Vision Insurance	87,833	100,158	110,066	104,515	110,742	125,297	164,963	154,000	154,000	157,000
491.871 Health Insurance Opt-Out Program	3,326	3,796	4,189	4,377	2,867	2,234	192	0	0	0
491.875 Group Term Life/Disability Insurance	4,036	3,079	3,208	3,138	3,768	3,631	3,167	3,200	3,300	3,450
491.880 Payroll Taxes - FICA	19,427	18,582	18,822	18,145	19,705	21,790	21,660	21,800	22,900	21,000
491.881 Unemployment Compensation Insurance	2,943	4,292	3,246	2,218	832	1,195	1,248	2,265	2,115	2,400
Subtotal	182,584	190,964	191,444	185,776	184,054	203,473	244,269	239,940	233,509	237,625
MISCELLANEOUS										
494.885 Operational and Management Agreement	81,540	83,556	85,872	88,560	91,392	94,212	104,616	108,192	108,192	109,704
494.470 Miscellaneous	6	89	15,118	2,011	86	1,729	86	600	275	300
494.460 Board, Staff, and Professional Meetings	0	0	0	0	0	0	0	100	0	100
497.895 Loss (Gain) on Disposal of Assets	0	0	-	-	-	-	-	0	0	0
Subtotal	81,546	83,645	100,990	90,571	91,478	95,941	104,702	108,892	108,467	110,104
TOTAL GENERAL EXPENSE	441,923	486,995	467,604	444,207	438,163	495,583	543,750	533,782	548,326	535,129

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 is being suspended for 2021.

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).

482.645 TELEPHONE

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

GENERAL EXPENSES

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.

485.735 REPAIRS OF TOOLS AND MACHINERY

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

GENERAL EXPENSES

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.

TAXES, BENEFITS, AND INSURANCE

GENERAL EXPENSES

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. As a result of COVID-19, the annual convention was cancelled and the crew who normally attend classes to retain their certifications were required to find other classes. This caused an increase in spending of this line item.

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>
2021	1,192.17	2,810.14	28.09	90.33
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 2021 social security rate is 6.2% of gross earnings up to \$142,800 per employee. The 2021 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 3.75% 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)

	2013	2014	2015	2016	2017	2018	2019	2020		2021
	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	AUDITED	BUDGET	EXPECTED	PROPOSED
NON-OPERATING INCOME (EXPENSE)										
341.000 Investment Income	7,383	8,679	8,384	1,857	21,885	22,027	30,850	21,250	20,000	15,000
	0	0	0	0	0	0	0	0	0	0
				0	0	0	0	0	0	0
NET NON-OPERATING INCOME (EXP)	7,383	8,679	8,384	1,857	21,885	22,027	30,850	21,250	20,000	15,000

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 2021

	2021 FUNDING		
	All Other Available Funds	Issued Debt	Total
<u>Water System Upgrade Projects</u>			
Puddintown Road	\$ 129,000	\$ -	\$ 129,000
Pike Street (Elmwood St to Dale St)	\$ -	\$ 220,000	\$ 220,000
Oak Hall Well Development Continuation	\$ -	\$ 277,000	\$ 277,000
Penn Hills PRV and Vault		\$ 120,000	\$ 120,000
<u>Water System Maintenance/Repairs</u>			
Cross Connection / Backflow Protection Program	\$ 6,375	\$ -	\$ 6,375
Meter Replacement Program	\$ 23,000	\$ -	\$ 23,000
<u>Capital Asset Purchases</u>			
Second Chlorine Analyzer for Rogers Well	\$ 6,000	\$ -	\$ 6,000
Data Loggers for Leak Detection	\$ 11,000	\$ -	\$ 11,000
TOTALS	<u>\$ 175,375</u>	<u>\$ 617,000</u>	<u>\$ 792,375</u>

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

2021 WATER SYSTEM UPGRADE PROJECTS

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

PUDDINTOWN ROAD - \$129,000

Upgrade approximately 850 LF of 2" steel pipe to 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.

PIKE STREET (ELMWOOD STREET TO DALE STREET) - \$220,000

Relocation of approximately 650 LF of existing 2" steel water main, and upgrade to 8" ductile iron, due to conflict with proposed Pike Street Streetscape curb installation. Extend approximately 365 LF of Pike Street water main as 8" ductile iron with associated isolation gate valves and installation of new fire hydrant assembly.

OAK HALL WELL DEVELOPMENT CONTINUATION - (\$277,000) - With the anticipation of agency approval for the development of the Oak Hall Well, design will begin in 2021 for the following items:

- * **BOALSBURG PIKE PROJECT (Whitehill Street to Baldwin Street) - \$35,000 (DESIGN)**
This project replaces 2,600 LF of existing 2" steel pipe with 12" ductile iron pipe and includes 12 service connections. Construction is scheduled for 2022.
- * **TRANSMISSION MAIN TO LOW PRESSURE ZONE - \$50,000 (DESIGN)**

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

A 12” transmission main is required to connect the proposed Oak Hall transmission line at either Cortland Drive or Baldwin Street which completes the connection to the 12” Low Pressure Zone transmission main near the Lemont Booster Station. Construction of the final configuration is anticipated in 2022.

* **OAK HALL BOOSTER STATION - \$12,000 (DESIGN)**

This project includes a Duplex Booster Station which is anticipated to be constructed in 2022.

* **OAK HALL WELL – \$180,000**

Development and permitting of the well continues in 2021.

PENN HILLS PRV AND VAULT - \$120,000

Replace the vault, exterior bypass line and pressure reducing valves

2021 WATER SYSTEM MAINTENANCE/REPAIRS

CROSS CONNECTION CONTROL/BACKFLOW PREVENTION PROGRAM - \$6,375

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 contracted with National Water Specialties Company (NAWSC) to administer a Backflow Prevention Inspection Program. The initial contract was for 2-years and provided an incremental 1-year automatic renewal. In 2021, CTWA will continue its contract with PAWSC for the Backflow Prevention Inspection Program for an estimated \$6,375.

CONSTRUCTION PROJECTS/CAPITAL ASSET PURCHASES

METER REPLACEMENT PROGRAM - \$23,000

In an effort to implement a 10-year rotation of meter replacement, \$23,000 is budgeted for the replacement of the meters of commercial customers.

2021 CAPITAL ASSET PURCHASES

SECOND CHLORINE ANALYZER FOR ROGERS WELL - \$6,000

A second chlorine analyzer is requested for use at Rogers Well in the event an anomaly occurs in the chlorine level. Staff will have more reaction time to make adjustments and minimize the amount of water that is lost due to the anomaly.

PURCHASE DATA LOGGERS FOR LEAK DETECTION - \$11,000

Staff has begun a proactive, rather than reactive, approach to leak detection within the system. Portable data loggers will allow staff to isolate an area and monitor flow for potential leak during the overnight hours which frees up staff to complete other tasks during the day.

College Township Water Authority
Planned Capital Purchases

Ranking	Capital Asset	Estimated Cost	2021	2022	2023	2024	2025
1	Meter Reading Equipment	\$ 5,000	\$ 5,000				
2	2 nd Cl2 Analyzer (Rogers Well)	\$ 6,000	\$ 6,000				
3	Data Loggers for Leak Detection	\$ 11,000	\$ 11,000				
4	Blower Assemblies for 2 nd VFD (Rogers Well)	\$ 1,000	\$ 1,000				
5	Additional Data Loggers for Leak Detection	\$ 10,000		\$ 10,000			
6	Rogers Well Turbidimeter	\$ 3,000		\$ 3,000			
7	Commercial Meters Replacement Program	\$ 23,000	\$ 23,000				
8	Flushing Station for CDT Building	\$ 3,500				\$ 3,500	
9	Cross connection control/Backflow Prevention Program (Year 3)	\$ 6,375	\$ 6,375				

Totals	\$ 68,875	\$ 52,375	\$ 13,000	\$ -	\$ 3,500	\$ -
--------	-----------	-----------	-----------	------	----------	------

Appendix

Appendix 1: (2) Debt Service Schedules – 1) Revised in 12/20 and 2) Original

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



Carried over from 2020

College Township water Authority
Water Revenue Note, Series of 2015
Total Issue
Updated Five Year Rate of 1.469%

REVISED
12/2020

	1	2	3	4	5	6	7	8
<u>Date</u>	<u>Principal</u>	<u>Rate</u>	<u>Interest</u>	<u>Debt Service</u>	<u>Annual Debt Service</u>	<u>Existing Annual Debt Service @ 2.98%</u>	<u>Difference</u>	
1/1/2021								
7/1/2021		1.469	53,868.23	53,868.23				
1/1/2022	498,400	1.469	53,868.23	552,268.23	606,136.46	716,953.20	110,816.74	
7/1/2022		1.469	50,207.48	50,207.48				
1/1/2023	513,300	1.469	50,207.48	563,507.48	613,714.96	717,000.88	103,285.92	
7/1/2023		1.469	46,437.29	46,437.29				
1/1/2024	528,600	1.469	46,437.29	575,037.29	621,474.59	717,004.54	95,529.95	
7/1/2024		1.469	42,554.73	42,554.73				
1/1/2025	544,300	1.469	42,554.73	586,854.73	629,409.45	716,952.26	87,542.81	
7/1/2025		1.469	38,556.84	38,556.84				
1/1/2026	560,600	1.469	38,556.84	599,156.84	637,713.69	717,032.12	79,318.43	
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	0.00	
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	0.00	
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	0.00	
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	0.00	
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	0.00	
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	0.00	
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	0.00	
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	0.00	
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	0.00	
Totals	7,334,000		1,265,836.39	8,599,836.39	8,599,836.39	9,076,330.24		

APPENDIX 1

ORIGINAL
CTWA-2015 CWB Bond

College Township Water Authority
General Obligation Note, Series of 2015
Initial Issue

	30	31	32	33	34	35	36	37	38	39
						Annual	Less: Deposit	Net	Existing	
Date	Principal	Rate	Interest	Debt Service	Debt Service	Debt Service	to Debt	Annual	Annual Net	Difference
							Service Fund	Debt Service	Debt Service	
12/8/2015										
1/1/2016						0.00			360,731.46	360,731.46
7/1/2016		1.98	111,650.00	111,650.00			111,650.00			
1/1/2017	487,700	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		

SEE IMPORTANT
NOTE AT BOTTOM

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.

APPENDIX 1

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 Township Water Authority
Gallons Produced, Billed 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	<u>179,181,000</u>	<u>185,015,000</u>	<u>191,382,000</u>	<u>183,613,254</u>	<u>184,249,268</u>
	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>
WATER SYSTEM REVENUE					
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>
TOTAL WATER SYSTEM REVENUE	<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 Township Water Authority
Other Key Statistics

	Year Ended - December 31				
	<u>2014</u>	<u>2015</u>	<u>2016</u>	<u>2017</u>	<u>2018</u>
<u>Other Key Statistics</u>					
Connections Served					
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>
Metered Water Use (GPD)					
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>
% of Population Served	63.86%	61.45%	64.48%	60.65%	61.45%

(1) Source: Annual Water Supply Report

(2) Source: Audit Reports

PURCHASE YEAR	DISCRIPTION OF EQUIPMENT	PURCHASE PRICE	EXPECTED LIFE	YEAR TO REPLACE	REPLACEMENT PRICE	ANNUAL REVENUE NEEDED
MAINTENANCE VEHICLES:						
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 F150 #72	\$30,600	10	2025	\$34,000	\$3,400
	TOTALS:	\$97,375			\$119,779	\$11,978
OFFICE AND STAFF VEHICLES:						
	TOTALS:	\$0			\$0	\$0
OFF ROAD EQUIPMENT:						
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
	TOTALS:	\$109,900			\$123,000	\$8,200

PURCHASE YEAR	DISCRIPTION OF EQUIPMENT	PURCHASE PRICE	EXPECTED LIFE	YEAR TO REPLACE	REPLACEMENT PRICE	ANNUAL REVENUE NEEDED
TOOLS & ATTACHMENTS:						
Unknown	MULLER TAPPING MACHINE	\$1,000	15	2022	\$1,200	\$80
1990	PIPE AND CABLE LOCATOR	\$1,000	30	2020	\$2,900	\$97
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	25	2023	\$750	\$30
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	2022	\$550	\$37
2006	2006 12 VOLT SUBMERSIBLE PUMP	\$500	12	2021	\$650	\$150
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	10	2020	\$4,000	\$400
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
2017	2017 CATERPILLAR 50 KW GENERATOR	\$25,000	20	2037	\$30,000	\$1,500
2017	2017 CATERPILLAR 150 KW GENERATOR	\$56,400	20	2037	\$70,000	\$3,500
2018	2018 12V SUBMERSIBLE PUMP	\$500	12	2030	\$650	\$54
2019	2019 STIHL MULTI PURPOSE SAW TS 800	\$1,325	8	2027	\$1,900	\$575
	TOTALS:	\$123,465			\$151,200	\$8,549
LAWN & GROUNDS TOOLS:						
2013	POULAN LAWN MOWER	\$200	8	2021	\$250	\$31
	TOTALS:	\$200			\$250	\$31
	GRAND TOTALS:	\$330,940			\$394,229	\$28,758
Year To Replace = Purchase Year + Expected Life						
Annual Reserve = (Replacement Price - 10% of Purchase Price)/Expected Life						