

# **2021 BUDGET**

Adopted: October 26, 2020

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#### **2021 BUDGET – EXECUTIVE SUMMARY**

# Submitted by: Liesel M. Gross, Chief Executive Officer October 19, 2020

Most years, when we begin to think about the year ahead and develop our plans for the upcoming budget year, Lehigh County Authority (LCA) staff and Board of Directors talk about lofty goals and strategies for the future. It is a time to reflect on what we have accomplished so far and to think about the needs of the community we serve and the water and sewer systems we manage.

Developing a budget for 2021 was decidedly different. LCA's best laid plans for 2020 were derailed very early in the year with the emergence of the COVID-19 pandemic in early March. Like most organizations in the Lehigh Valley and across the nation, many of our plans for 2020 were put to the side to allow us to focus on keeping employees healthy and ensuring a sustainable operation in uncertain times. Never has it been more apparent what a vital role public water and sewer service plays in protecting public health. All other goals for 2020 paled in comparison to the mission of providing safe and reliable service to our community.

LCA has sustained financial and operational impacts from the pandemic, including:

**Residential Customer Impact** – Customers who have been hardest hit by unemployment during the pandemic have had difficulty paying their water and sewer bills.

**Collections Performance** – Suspension of all normal collections activity – applying late fees and terminating service to non-paying customers – was the right thing to do but has resulted in ever-increasing unpaid past-due receivables. By October 2020, after seven months of suspended collections activity, unpaid past-due receivables have increased by approximately \$900,000.

Impact of Business Closures – Many commercial and retail establishments ceased operation for nearly three full months from March until June, and then gradually reopened in accordance with state mandates that remain in place today. For LCA, this resulted in a marked decrease in water usage by commercial customers, and resulting loss of revenue. This loss was felt most deeply within the City of Allentown where a revitalized downtown retail and restaurant district shut down and remains at or below 50 percent capacity for the foreseeable future.

**Projects Deferred** – For several months of 2020, all work with external contractors was placed on hold, so major capital improvements and ongoing operations and maintenance work were deferred for a period of time. This resulted in some cost savings to offset the loss of revenues described above.

**Operational Adjustments to Protect Employees** – Especially during the first three months of the pandemic, LCA shifted operationally several times to respond to changing circumstances. Our spending shifted dramatically to reallocate funds into our technology program to allow non-operational employees to work remotely, and into the purchase of safety equipment, cleaning

supplies and services, emergency accommodations for critical on-site workers, and much more. Payroll expenses increased to accommodate increases in overtime and other expenses as our operational employees worked in isolated shifts to prevent cross-infection in case someone became sick. These expenses have totaled more than \$600,000 so far this year.

These unplanned but necessary adjustments, coupled with the uncertain future of the pandemic impacts on our world, complicated LCA's process of thinking ahead for 2021. In developing the 2021 budget, we considered:

- How and when will the economy recover? How will customer growth be impacted?
- Will our commercial customers be able to fully reopen in 2021?
- Will customers who face financial hardships be able to pay their utility bills next year?
- Can we move forward with collections activity to support improved cash flow, and when?
- Can we move forward on our non-pandemic goals while maintaining a strong focus on keeping employees healthy and ensuring safe and reliable service to the community?

Certainly we do not have all the answers, and so LCA's 2021 Budget is an imperfect document. But it captures our best estimation of what is likely to occur in 2021. In addition, we have incorporated plans to move forward on a few important organizational strategies and have made some difficult choices regarding water and sewer rates.

#### **Strategic Imperatives for 2021**

While LCA's primary focus in 2021 will be to monitor and then recover from the impact of the pandemic, our staff has identified several important goals for the year ahead. The top three are:

#### 1. Targeted Operational Improvements:

For our Suburban Division, this means a dedicated focus on evaluating and upgrading LCA's Supervisory Control and Data Acquisition (SCADA) system. We have added staff, technology and consulting resources into the 2021 Budget to support this program which is needed to bring our system up to current standards for automation, access, security and control.

For our City Division, a top priority is to replace or repair the mobile equipment used every day to maintain our water and sewer systems. Our dedicated employees required updated tools to perform their jobs and maintain this aging, urban system.

#### 2. Process Improvements:

LCA staff have identified several administrative areas that would benefit from dedicated process improvement efforts. These areas span the organization and cover customer service, billing, sewer signatory billing, human resources, and capital project accounting. To achieve improvements in these areas, the following resources have been included in the 2021 Budget:

- Additional Staff Support
- Information Technology Solutions
- External Financial Consultant Services
- Internal Team Development
- Training Resources for Continuous Improvement

By taking a multi-faceted approach to process improvement, LCA expects to improve efficiency and accountability in these critical administrative functions.

#### 3. <u>Targeted Capital Funding for Critical Projects & System Planning:</u>

The 2021 Budget includes funding for LCA's capital improvements program, but pared down in certain areas to ensure focus is placed on completing the most critical projects.

In LCA's Suburban Wastewater Division, the 2021 Budget includes funding to continue working aggressively toward a regional Act 537 Sewage Facilities Plan, which is due to be submitted to state regulators in 2025. Next year, system modeling and engineering work will be focused on developing short- and long-term solutions to address bottlenecks in the system in the area near Trexlertown, which cause sewage overflows during wet-weather events.

For our City Division, LCA's 2021 Budget includes funding to begin important projects to replace aging infrastructure. Projects include one mile of water main replacement, replacement of variable frequency drives for the high lift pumps at the water filtration plant, and replacement of disinfection systems and boilers at the wastewater treatment plant.

#### **Facing the Challenge of Increasing Utility Rates**

Like many water and sewer utilities across the nation, LCA faces a significant burden of caring for and replacing aging infrastructure. In the City of Allentown, many water and sewer lines are 100 years old or older and face significant integrity challenges. In addition, much of our water and wastewater treatment plant equipment is at the end of its useful life and needs to be replaced or upgraded. In our Suburban service areas, while the systems may be "younger" in many cases, LCA's infrastructure requires greater attention in the form or preventive maintenance and strategic asset management.

Also like many utilities across the nation, LCA's water and sewer rates will need to increase to pay for these system improvements. Everywhere, water and sewer rate increases are expected to outpace inflation for many years into the future. Included in the 2021 Budget are rate increases to LCA customers that are necessary but may be difficult for some customers to bear.

#### **City Division**

In July 2020, LCA and the City of Allentown agreed to amend the 50-year water and sewer Concession Lease Agreement that was signed in 2013. The amendment was needed to improve LCA's financial performance under the terms of the Lease with the key goal of providing funding to complete the critical system improvements described above.

As part of this amendment, rate structures have been modified to provide additional revenue to the City Division. This includes an approximate increase of 20 percent for an average residential customer in Allentown. Several other terms of the new agreement provide ways to control future rate increases, including provisions for future rate reductions when LCA's financial picture improves. However, we recognize the initial rate impact to customers over the next several years will be significant.

Throughout the multi-year negotiation process, LCA and the Allentown officials have sought ways to leverage LCA's non-profit, municipal authority structure to increase reinvestment in the

water and sewer system. We believe the amended agreement offers regional solutions and provides value back to the community. The long-term benefits of this Lease amendment will be felt for decades to come. More information about the Lease amendment is available on LCA's website at: <a href="https://www.lehighcountyauthority.org/leaseupdate/">https://www.lehighcountyauthority.org/leaseupdate/</a>

#### **Suburban Division**

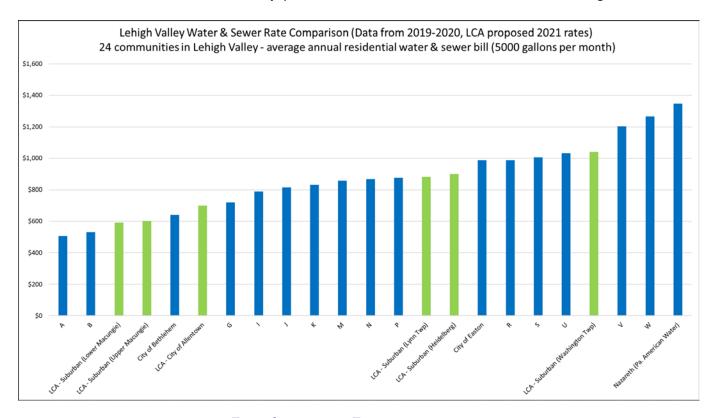
While LCA has openly discussed the need for annual rate increases to bolster our preventive maintenance program and reduce our reliance on debt for capital improvements, the 2021 Budget offered additional challenges that will result in higher-than-expected rate increases for our Suburban Water customers.

In 2021, the cost to purchase water from the City of Allentown water system will increase by approximately \$675,000. This is a one-time increase reflecting terms of an updated Water Purchase Agreement between LCA and the City. The benefits of the agreement revision include a 30+ year extension to the term of the agreement and equitable cost-of-service rates for all water users. However, LCA's Suburban Division will be required to pay more to cover its proportionate cost of water production and treatment.

To address this issue and meet other critical financial goals, a rate increase of approximately 10.5 percent is included in the 2021 Budget. For the average Suburban Water customer, this equates to an increase of \$28 per year.

#### **Regional Rate Comparisons**

While LCA would always prefer to keep rates as low as possible, the increases described above are necessary. The graph below illustrates how LCA's 2021 proposed rates compare to other communities in the Lehigh Valley. Notably, with the 2021 increases included, most LCA customers will continue to enjoy some of the lowest water and sewer rates in our region.



#### **2021 BUDGET – SUMMARY OF EXPECTED RESULTS**

The sections above describe the breadth of issues that were evaluated and discussed through the development of the 2021 Budget. The summary below shows that the 2021 Budget is presented with positive cash flows, meeting debt service requirements, and providing alternative funding for capital improvements that limits the borrowing required to pay for these investments. In 2021, we also see positive movement toward our target for operational cash balances, which supports overall financial sustainability of the organization.

Budget Overview	Suburban Water	Suburban Wastewater	City Division	Total
Operating, Non-Operating & Other Revenue	\$12,836,751	\$20,223,056	\$44,066,704	\$77,126,511
Operating Expenses (net of depreciation)	\$8,637,776	\$13,248,399	\$20,170,389	\$42,056,564
Net Revenues Available for Debt Service	\$4,198,975	\$6,974,657	\$23,896,315	\$35,069,947
Debt Service	\$3,499,146	\$731,029	\$14,115,086	\$18,345,261
Debt Service Coverage Ratio (indenture based)	1.20	9.54	1.69	1.91
Capital Budget Overview	Suburban Water	Suburban Wastewater	City Division	Total
Capital Expenses	\$4,190,000	\$3,921,800	\$8,877,500	\$16,989,300
Funding from 2021 Revenue & Operating Reserves	\$4,190,000	\$3,749,781	\$8,077,500	\$16,017,281
Funding from Existing Project Reserves	-	\$172,019	-	\$172,019
Funding from New Borrowing	-	-	\$800,000	\$800,000
Year-End Project Reserve Balance	-	\$2,500,000	\$169,980	\$2,669,980
Total Cash Flow	Suburban Water	Suburban Wastewater	City Division	Total
Beginning Operations Cash Balance (2020 forecast)	\$6,700,850	\$6,993,901	\$6,167,443	\$19,862,194
2021 Surplus	\$699,829	\$6,243,627	\$12,671,067	\$19,614,523
Provided From (To) Capital	\$(4,190,000)	\$(3,749,781)	\$(8,077,500)	\$(16,017,281)
Ending Operations Cash Balance	\$3,210,679	\$9,487,747	\$10,761,010	\$23,459,436
Operating Days Cash on Hand	136	243	179	191
Project Reserve Balance	-	\$2,500,000	\$169,980	\$2,669,980
Other Reserves & Investments (includes restricted)	\$10,948,484	\$8,095,208	\$55,676,307	\$74,719,999
Ending Total Fund Balance - 2021 Budget	\$14,159,163	\$20,082,955	\$66,607,297	\$100,849,415



The funds of the Authority are grouped in the financial statements as –Enterprise funds, which are used to account for business-like activities provided to the general public. These activities are financed primarily by user charges, and the measurement of financial activity focuses on net income measurement similar to the private sector, in addition to cash flows used more traditionally by the public utility sector. The following enterprise funds are reported as major funds:

- **A. Suburban Water Division** Used to account for the operations of the Suburban Water system's supply, storage, pumping and treatment facilities and distribution system. The Suburban Water system is a public utility service, which is intended to be maintained on a self-supporting basis.
- **B. Suburban Wastewater Division** Used to account for the operations of the Suburban Wastewater system's interceptors, collector systems, pump stations, and treatment facilities. The suburban wastewater system is a public utility service, which intends to be maintained on a self-supporting basis.
- C. City Division Used to account for the operations of the City of Allentown water and sewer system. The City Division fund is a public utility service, which intends to be maintained on a self-supporting basis. This fund was added in 2013 as a result of the Authority entering into a 50-year Concession Lease Agreement with the City.

#### A. Suburban Water Division:

The Authority currently owns and operates water systems in three areas of Lehigh County - the Western Lehigh (WLSA), the Northern Lehigh (NLSA) and the Southern Lehigh (SLSA) Service Areas. In addition, the Authority owns and operates one system in Northampton County. Within each service area, separate systems are further designated as divisions. The Authority is funding all expenses in the majority of the divisions through a common rate. By municipal agreement, there are 35 customers within the Washington Township Division that are not part of the common rate structure.

Responsibilities for water service include monitoring water quality, operating and maintaining the various supply sources, reservoirs, transmission and distribution pipe networks and customer metering, billing and response to other related customer service needs.

Each division is affected to varying degrees by the Federal and Pennsylvania Safe Drinking Water Act requirements. Depending on the source (groundwater or purchased surface water), differing analyses are required for water quality monitoring.

Major Budget activities continue to place an emphasis on providing customers with outstanding service. Maintenance programs intended to prolong the useful life of existing facilities, including preventive maintenance, leakage monitoring and repairs, exercising of system valves and fire hydrants, and station improvements and repairs, are on-going.

#### B. <u>Suburban Wastewater Division:</u>

The Authority is responsible for providing a variety of wastewater services. Current operation and maintenance responsibilities include; the Western Lehigh Interceptor (WLI), Little Lehigh Relief Interceptor (LLRI), the LCA Pre-Treatment Plant (formerly the County of Lehigh Pre-Treatment Plant), collection and treatment in Heidelberg Township, North Whitehall Township, Weisenberg Township and Lynn Township and collector systems within Lowhill Township, Upper Milford Township, Weisenberg Township and Washington Township.

#### Western Lehigh Interceptor system:

This budget addresses transportation and City treatment services provided to various municipalities and assumes an average daily flow of 8 million gallons per day (MGD) from the communities served including the Boroughs of Alburtis and Macungie, and the Townships of Lower Macungie, Upper Macungie, Upper Milford, Weisenberg, Lowhill and the LCA Pre-Treatment Plant (the "Municipalities"). The Municipalities are billed based upon wastewater strength, flow and reserved capacity. The budget (including the LLRI, described below) includes an estimated 4 percent rate increase for the typical residential customer. In addition, the Borough of Emmaus discharges a portion of its flow through the WLI and is billed in accordance with a service agreement.

Personnel time is included for the operation and maintenance of the gravity interceptors and the Spring Creek Pump Station (SCPS) and force main. The budget anticipates that the SCPS will operate daily to meet the demand of volume as well as in response to wet weather events according to current wet weather operating protocols.

As part of a comprehensive Infiltration and Inflow (I/I) removal program, flow monitoring of the Authority and Signatory collector system connections has been completed on an ongoing basis over many years, beginning in 2007. The results of the flow monitoring is used to plan I/I removal programs conducted by all Municipalities to lower wet-weather flows and ensure future capacity is available for new system users. In 2020, the Authority and Municipalities developed an Interim Act 537 Plan to address the capacity requirements for the time period of 2021 to 2025. The 2021 Budget includes implementation of planning activities outlined in this regional Interim Act 537 Plan.

Sampling and analysis for billing purposes of the LCA Pre-Treatment Plant and Municipality industrial/commercial users, and flow entering the City system and that from Emmaus are included.

#### Little Lehigh Relief Interceptor (LLRI) system

#### Phase 1

This system phase, including the Park Pump Station (PPS) and Force Main, serves the Municipalities and the Townships of Salisbury and South Whitehall. The PPS, which has been in service since 1983, provides 20 MGD of relief pumping capacity to bypass a critical portion of the City of Allentown's interceptor system. In 2020, the Authority completed and major upgrade to the PPS including replacement of aged pumps and equipment, and installation of updated variable frequency drives and control systems, which will serve to optimize the facility and increase efficiency. The 2021 Budget includes increased costs for the operation of the PPS to account for final start-up costs of the renovated facility.

#### Phase 2

This system phase includes the gravity relief line from Keck's Bridge to the PPS and serves the Municipalities. The 2021 Budget anticipates the continuation of increased maintenance costs for cleaning the inverted siphons on this system. It is now anticipated that this will be an annual expense based upon the blockage experienced in recent years.

#### **Common Rate Collector System:**

#### **Upper Milford system**

As the wastewater service agency for Upper Milford Township (UMiT), Lehigh County Authority (LCA) provides all wastewater-related services for the 936 residential and 48 commercial customers in the

township as of October 19, 2020. Except for significant matters requiring inter-municipal negotiations or consultations, LCA provides general representation for UMiT on wastewater issues.

#### Weisenberg system

In 2002, LCA finalized an agreement with Weisenberg Township, which designates LCA as the provider of public wastewater service within specific areas of the township. Currently LCA provides collection system service to 146 residential and 3 commercial customers in the Pointe West subdivision, to the former Penn State campus and Glasbern Inn.

#### **Heidelberg Heights system**

This system, serving 145 customers in Heidelberg Township was purchased by LCA in September 1998. The system includes approximately 6,500 linear feet of collector sewers and a 60,000 GPD Sequencing Batch Reactor (SBR) Activated Sludge Wastewater Treatment Plant, which was placed in operation in 2000. The budget includes maintenance activities related to the collection system, emphasizing identification and removal of extraneous flow into the system. The Authority operates the system using LCA personnel and outside operators.

#### **Wynnewood Terrace system**

The budget includes the operation and maintenance of the Wynnewood Terrace wastewater system in North Whitehall Township. The Authority took over ownership and operational responsibilities in July of 2003. The system includes a 60,000 GPD extended air activated sludge package treatment plant, three pump stations and collection system currently serving 217 residential and 2 commercial customers. The treatment plant is in the process of being replaced, with startup of new facilities planned for late 2020. The budget includes maintenance activities related to the collection system, emphasizing identification and removal of extraneous flow into the system. The Authority operates the system using LCA personnel and outside operators.

#### Sand Spring system

The budget includes the operation and maintenance of the Sand Spring wastewater system in North Whitehall Township, which was acquired at the end of 2004. The system includes a 35,000 GPD extended air activated sludge package treatment plant and collection system currently serving 248 residential apartment units and 9 commercial customers. The treatment plant is in the process of being replaced, with startup of new facilities planned for 2021. The Authority operates the system using LCA personnel and outside operators.

#### **Lowhill Township system**

LCA acquired the Lowhill Township sewer collection system effective April 1, 2016. The system serves 43 residential customers and is comprised of approximately 3,500 feet of 8" PVC sewer.

#### Western Weisenberg system

The Authority owns and operates a 40,000 GPD wastewater treatment plant at the Arcadia West Industrial Park (AWIP). The new plant serves the AWIP and other properties in the New Smithsville area of Weisenberg Township. Currently there are 16 commercial customers and 1 institutional customer in this system.

#### Lynn Township system

The budget includes the operation and maintenance of the Lynn Township wastewater system in Lynn Township. The system includes an 80,000 GPD cast in place extended air plant and collection system currently serving approximately 364 residential properties, 20 commercial customers and the

Northwestern Lehigh School District Complex. The Authority operates the system using LCA personnel exclusively.

#### **Washington Township system**

LCA provides operating services for this system that serves approximately 591 residential and commercial customers in the Slatedale and Emerald areas of Washington Township. Approximately 130,000 GPD of wastewater is conveyed to and treated at the Borough of Slatington's wastewater treatment plant. Ownership of the system remains with Washington Township.

#### LCA Pre-Treatment Plant (PTP)

LCA took over the operation in May 2006 and ownership in October 2009 of this 5.75 MGD facility built by the County of Lehigh in 1990. Currently the facility provides pre-treatment of high strength waste, predominantly generated by food and beverage industrial customers, along with domestic-strength waste generated by upstream commercial and residential properties located in Lowhill, Weisenberg and Upper Macungie Townships. The PTP also treats hauled waste, which is a significant revenue source for this plant. 2021 revenues are anticipated to increase slightly with an improved waste hauler program in place. The plant is operated through a professional services contract with Jacobs. A 10-year operations contract was negotiated in 2017 with Jacobs (formerly CH2M) to provide significant savings in the operational costs, which will be reinvested in plant capital that is reaching the end of its useful life.

Boston Beer Company (BBC) started brewing operations at the former Pabst Brewery in April 2008. The brewery waste has become a very significant source of both waste and income for the PTP. BBC is the plant's largest customer and continues to increase production annually.

Over the past decade, significant capital investment has been made in the PTP to rehabilitate aging, inefficient and inoperable equipment in anticipation of an increase in industrial wastewater flows and strength, which in turn places added demands on plant equipment. Over the past five years, energy conservation measures have been implemented to reduce electrical demands and improve equipment and operational efficiencies. The projects included the addition of a truck receiving station and the completion of the digester mixer replacements, which increased biogas production and reduced electrical needs. Recently completed projects include the rebuild of two belt filter presses, new grease receiving station, access drive reconstruction, and yard process piping replacements.

#### C. City Division

#### Water System

The Authority operates the water system for the City of Allentown under a long term lease/concession agreement. The water system consists of a 30 MGD water treatment plant, (2) water intake structures, (10) storage tanks and reservoirs and (5) pump stations. There are two Water Fund divisions – Treatment Plant Division and Distribution Division. Separate budgets are presented for each division to track and maintain expenses.

Responsibilities for services include monitoring water quality; operating and maintaining the supply sources for the treatment facility, reservoirs, tanks, transmission and distribution pipe networks, customer metering, billing and response to customer service needs.

The consumer base is located throughout the City of Allentown. Water is also provided to surrounding municipalities through the use of system interconnections. Sources of supply include two groundwater sources, namely Schantz Spring and Crystal Spring. In addition, two surface water sources include the Little Lehigh Creek and the Lehigh River. Customer growth in the Allentown Division is expected to be

minimal, and there is no expected increase in consumption through the interconnection with the Suburban Division.

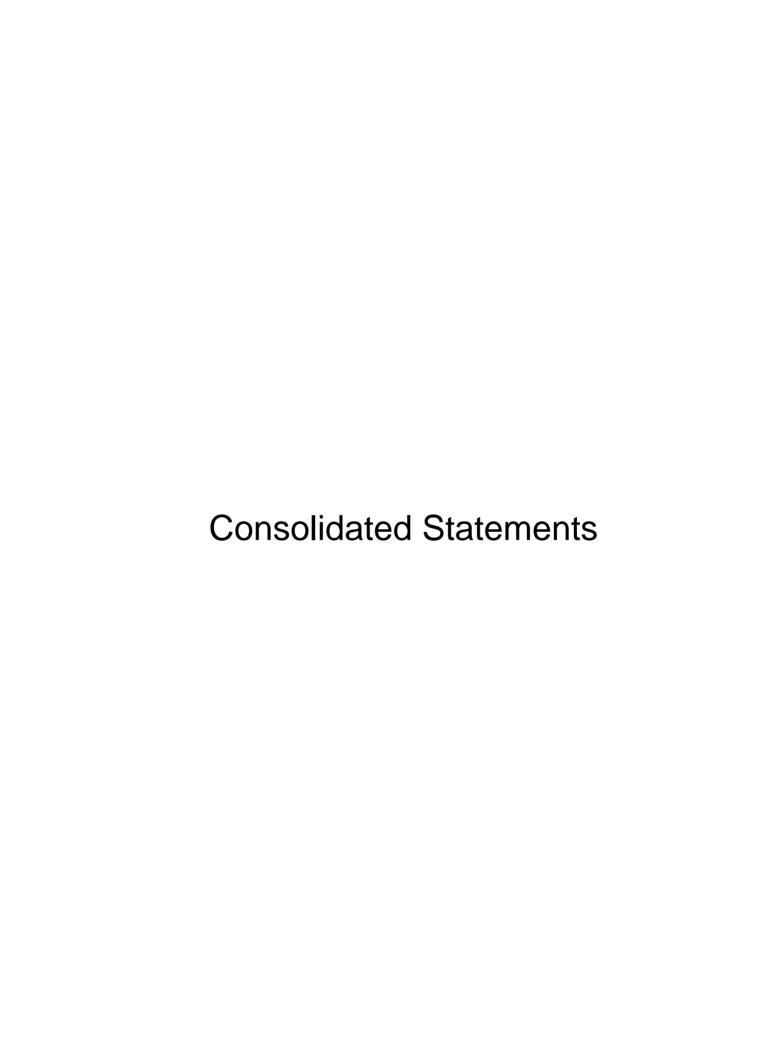
Major budget activities place an emphasis on providing consumers with outstanding quality water and service. A Preventive Maintenance Program continues to prolong the useful life of existing facilities and equipment. Programs for valve exercising, leak detection, fire hydrant repair/replacement will continue. Maintenance programs for the treatment plant processes such as filter evaluations, plant equipment repair/replacement will continue to meet the stringent regulations mandated by EPA and DEP. Continued membership with the Partnership for Safe Water Program for the Treatment Plant and Distribution System will provide a means and method for improvement to the overall performance of the system and water quality. Significant activities include:

- Cost effective use of all 4 water sources
- Optimization of the Treatment Process through the Partnership for Safe Water
- Preventative maintenance programs, utilizing the CMMS
- Aggressive leak detection program
- Use/Upgrade of the SCADA system to allow for more cost effective operations
- Long term service contract for reservoir/tank maintenance program
- Enhanced CMMS to maintain cost control
- Fleet management to control/maintain vehicle expenses
- Upgrade/replace aging/ineffective equipment that is beyond its useful life

#### Wastewater System:

LCA's operation and maintenance responsibilities include the operation of the Kline's Island Wastewater Treatment Plant and the portion of the collection system that resides in the geographic boundaries of the City of Allentown. There are two Wastewater System budgets – the Treatment Plant budget and Collection System budget. Separate budgets are presented to track and maintain expenses for improved cost control as well as to implement cost-sharing rates with the 14 municipalities that utilize the system outside the City of Allentown. Rate setting for the municipalities is established via service contracts that specify how operating, maintenance and capital costs are distributed.

The 2021 Budget was developed to provide compliance with applicable regulatory requirements utilizing recognized operational, maintenance and industrial pretreatment procedures to effectively convey and process the wastewater generated in the service area of the treatment facility. Compliance with the Standards of Practice established as part of the concession and lease agreement with the City of Allentown will be an on-going and essential focus for the wastewater staff of the city division.



# LEHIGH COUNTY AUTHORITY FINANCIAL SUMMARY 2021 Budget and Comparative Prior Period Data

Budget Overview	Sub. Water	Sub. Wastewater	City Division	Total
Operating, Non-Operating & Other Revenue	12,836,751	20,223,056	44,066,704	77,126,511
Operating Expenses (net of depreciation)	8,637,776	13,248,399	20,170,389	42,056,564
Net Revenues Available for Debt Service	4,198,975	6,974,657	23,896,315	35,069,947
Debt Service	3,499,146	731,029	14,115,086	18,345,261
Debt Service Coverage Ratio (indenture based)	1.20	9.54	1.69	1.91
Capital Budget Overview	Sub. Water	Sub. Wastewater	City Division	Total
Capital Expenses	4,190,000	3,921,800	8,877,500	16,989,300
Funding from 2021 Revenue & Operating Reserves	4,190,000	3,749,781	8,077,500	16,017,281
Funding from Existing Project Reserves	-	172,019	-	172,019
Funding from New Borrowing	-	-	800,000	800,000
Year-End Project Reserve Balance	-	2,500,000	169,980	2,669,980
Total Cash Flow	Sub. Water	Sub. Wastewater	City Division	Total
Beginning Operations Cash Balance (2020 forecast)	6,700,850	6,993,901	6,167,443	19,862,194
2021 Surplus	699,829	6,243,627	12,671,067	19,614,523
Provided From (To) Capital	(4,190,000)	(3,749,781)	(8,077,500)	(16,017,281)
Ending Operations Cash Balance	3,210,679	9,487,747	10,761,010	23,459,436
Operating Days Cash on Hand	136	243	179	191
Project Reserve Balance	-	2,500,000	169,980	2,669,980
Other Reserves & Investments (includes restricted)	10,948,484	8,095,208	55,676,307	74,719,999
Ending Total Fund Balance - 2021 Budget	14,159,163	20,082,955	66,607,297	100,849,415

#### LEHIGH COUNTY AUTHORITY STATEMENTS OF NET POSITION 2021 Budget and Comparative Prior Period Data

	Suburban				Subur				City							
	Budget	Forecast	ter Budget	Actual	Budget	Waster Forecast	vater Budget	Actual	Budget	Divisi Forecast	on Budget	Actual	Budget	Total Forecast	LCA Budget	Actual
	2021	2020	2020	2019	2021	2020	2020	2019	2021	2020	2020	2019	2021	2020	2020	2019
Current Assets: Cash and Cash Equivalents	3,210,679	6,700,850	9,701,644	9,242,611	11,987,747	9,665,920	24,669,763	7,057,187	19,808,346	15,144,799	9,918,160	12,660,402	35.006.772	31,511,568	44,289,567	28,960,200
Certificates of Deposit	3,136,930	3,136,930	1,785,733	3,136,930	7,757,276	7,757,276		7,757,276	-	-	-	-	10,894,206	10,894,206	1,785,733	10,894,206
Accounts Receivable:		-				-				-			-	-	-	-
Customers (Net of Allowance) Financing Contracts	1,760,403	1,760,403	1,652,884	1,760,403	3,188,238 323,767	3,188,238 323,767	4,118,091 316,797	3,188,238 323,767	6,542,331	7,142,331	6,606,583	6,542,331	11,490,972 323,767	12,090,972 323,767	12,377,558 316,797	11,490,972 323,767
Others	280,007	280,007	203,148	280,007	675,091	675,091	509,247	675,091	2,941,090	2,941,090	4,147,552	2,941,090	3,896,188	3,896,188	4,859,947	3,896,188
Due from (to) Other Funds	1,599,692	1,599,692	-	1,599,692	(1,570,176)	(1,570,176)	2,817,997	(1,570,176)	(29,516)	(29,516)	-	(29,516)	-	-	2,817,997	-
Inventory	36,074 6,411	36,074 6,411	16,190 14,724	36,074 6,411	39.898	39.898	23.832	39.898	- 56.425	- 56.425	100.851	- 56.425	36,074	36,074	16,190	36,074
Accrued Interest Receivable Prepaid Expenses	185.993	185.993	14,724	185.993	131.300	39,898 131.300	23,832 123.026	131.300	414.562	56,425 414.562	374,996	414.562	102,734 731,855	102,734 731.855	139,407 696,153	102,734 731.855
Total Current Assets	10,216,189	13,706,360	13,572,454	16,248,121	22,533,141	20,211,314	32,578,753	17,602,581	29,733,238	25,669,691	21,148,142	22,585,294	62,482,568	59,587,364	67,299,349	56,435,996
Noncurrent Assets: Restricted:																
Restricted Cash and Cash Equivalents	2,532,181	2,532,181	203,046	2,532,181	337,932	337,932	337,562	337,932	9,114,754	9,114,754	9,807,084	9,114,754	11,984,867	11,984,867	10,347,692	11,984,867
Restricted for Debt Service	1,043,094	1,043,094	1,380,654	1,043,094	-	-	-	-	37,684,197	37,684,197	37,684,197	37,684,197	38,727,291	38,727,291	39,064,851	38,727,291
Restricted Certificates of Deposit Investment U.S. Treasury Obligations	25,527	25,527	25,522 2,214,267	25,527	1 :	-	-	-	24,117,855	- 25,297,674	3,940,640		25,527 24,117,855	25,527 25,297,674	25,522 6,154,907	25,527
Developer Escrow Deposit	4,210,752	4,210,752	4,386,200	4,210,752	1 -	-	-	-			-	-	4,210,752	4,210,752	4,386,200	4,210,752
Total Restricted Assets	7,811,554	7,811,554	8,209,689	7,811,554	337,932	337,932	337,562	337,932	70,916,806	72,096,625	51,431,921	46,798,951	79,066,292	80,246,111	59,979,172	54,948,437
Capital Assets																
Non-depreciable Assets:	1															
Land	2,114,884	2,114,884	2,043,265	2,114,884	1,888,430	1,888,430	1,837,891	1,888,430	-	-	-	-	4,003,314	4,003,314	3,881,156	4,003,314
Construction in Progress	21,015,645 23,130,529	16,825,645 18,940,529	5,023,631 7,066,896	12,504,370 14,619,254	27,366,955 29,255,385	23,445,155 25,333,585	10,052,683 11,890,574	18,974,421 20,862,851	11,871,364 11,871,364	2,993,864 2,993,864	-	-	60,253,964 64,257,278	43,264,664	15,076,314 18,957,470	31,478,791 35,482,105
Total Capital Assets Not Being Depreciated	23,130,529	18,940,529	7,000,890	14,619,254	29,255,385	25,333,585	11,890,574	20,862,851	11,871,364	2,993,864	-	-	64,257,278	47,267,978	18,957,470	35,482,105
Depreciable Assets:																
Wells & Reservoirs Transmission & Distribution Mains	9,709,252	9,709,252 80,498,411	9,554,770 78,963,688	9,709,252 80,498,411	3,494,643	3,494,643	3,494,643	3,494,643	-	-	-	-	13,203,895	13,203,895 80,498,411	13,049,413 78,963,688	13,203,895 80,498,411
Services & Hydrants	80,498,411 17,571,410	17,571,410	17,144,642	17,571,410	_	-	-	-	-	-	-	-	80,498,411 17,571,410	17,571,410	17,144,642	17,571,410
Interceptor & Collector Systems	-	-	· · · · -	-	38,259,619	38,259,619	38,036,405	38,259,619	-	-	-	-	38,259,619	38,259,619	38,036,405	38,259,619
Building Structure & Appurtenances	23,797,378	23,797,378	23,632,286	23,797,378	55,828,047	55,828,047	54,910,406	55,828,047	-	-	-	-	79,625,425	79,625,425	78,542,692	79,625,425
Metering System Equipment and Furnishings	10,672,043 7,769,506	10,672,043 7,769,506	10,539,291 23,535,963	10,672,043 7,769,506	429,778 23,175,902	429,778 23.175.902	429,777 39,446,165	429,778 23,175,902	3,268,879	3,268,879	8,488,911	3,268,879	11,101,821 34,214,287	11,101,821 34,214,287	10,969,068 71,471,039	11,101,821 34,214,287
Capacity	1,207,901	1,207,901	1,207,901	1,207,901	953,831	953,831	2,062,956	953,831	-	-	-	-	2,161,732	2,161,732	3,270,857	2,161,732
Total Capital Assets Being Depreciated	151,225,901	151,225,901	164,578,541	151,225,901	122,141,820	122,141,820	138,380,352	122,141,820	3,268,879	3,268,879	8,488,911	3,268,879	276,636,600	276,636,600	311,447,804	276,636,600
Less accumulated depreciation																
Wells & Reservoirs	(3,365,888)	(3,365,888)	(3,365,888)	(3,365,888)	(603,220)	(603,220)	(603,220)	(603,220)	-	-	-	-	(3,969,108)	(3,969,108)	(3,969,108)	(3,969,108)
Transmission & Distribution Mains	(13,722,746) (4,580,883)	(13,722,746) (4,580,883)	(13,722,746) (4,580,883)	(13,722,746) (4,580,883)	-	-	-	-	-	-	-	-	(13,722,746)	(13,722,746)	(13,722,746)	(13,722,746)
Services & Hydrants Interceptor & Collector Systems	(4,580,883)	(4,580,883)	(4,580,883)	(4,580,883)	(11,136,593)	(11,136,593)	(11,136,593)	(11,136,593)	-	-	-	-	(4,580,883) (11,136,593)	(4,580,883) (11,136,593)	(4,580,883) (11,136,593)	(4,580,883) (11,136,593)
Building Structure & Appurtenances	(9,294,442)	(9,294,442)	(9,294,442)	(9,294,442)	(20,126,163)	(20,126,163)	(20,126,163)	(20,126,163)	(8,762)	(8,762)	-	(8,762)	(29,429,367)	(29,429,367)	(29,420,605)	(29,429,367)
Metering System	(5,332,817)	(5,332,817)	(5,332,817)	(5,332,817)	(264,381)	(264,381)	(264,381)	(264,381)					(5,597,198)	(5,597,198)	(5,597,198)	(5,597,198)
Equipment and Furnishings Capacity	(11,257,659) (751,043)	(8,651,960) (751,043)	(8,928,793) (751,043)	(6,007,460) (751,043)	(29,360,103)	(24,743,320)	(24,765,358)	(20,076,068)	(3,065,282)	(2,737,920)	(8,453,447)	(2,424,420)	(43,683,043) (751,043)	(36,133,200) (751,043)	(42,147,598) (751,043)	(28,507,948) (751,043)
Total Accumulated Depreciation	(48,305,478)	(45,699,779)	(45,976,612)	(43,055,279)	(61,490,460)	(56,873,677)	(56,895,715)	(52,206,425)	(3,074,044)	(2,746,682)	(8,453,447)	(2,433,182)	(112,869,982)	(105,320,138)	(111,325,774)	(97,694,886)
Total Capital Assets	126,050,953	124,466,651	125,668,825	122,789,876	89,906,745	90,601,728	93,375,211	90,798,246	12,066,198	3,516,061	35,464	835,697	228,023,896	218,584,440	219,079,500	214,423,819
Total Suprial Models	.20,000,000	.24,400,001	.20,000,020	.22,100,010	03,300,743	50,001,120	50,010,211	50,750,240	12,000,190	0,010,001	50,754	000,007	220,020,030	2.0,004,440	2.0,070,000	214,420,013
Other Assets:	1					4 50	4.05	4 50						4 55	4.05	
Long-Term Portion of Receivables - Financing Contracts Intangible Service Concession Arrangement	_	-	-	-	1,532,516	1,532,516	1,856,283	1,532,516	235,559,576	241,126,076	232,056,776	241,126,076	1,532,516 235,559,576	1,532,516 241,126,076	1,856,283 232,056,776	1,532,516 241,126,076
Less Accumulated Amortization		-	-	-	_	-	-	-	(5,566,500)	(5,566,500)	-	241,120,070	(5,566,500)	(5,566,500)	-	241,120,070
OPEB Asset	1,244,053	1,244,053	736,708	1,244,053	-	-	-	-	- 1	- '	-	-	1,244,053	1,244,053	736,708	1,244,053
Other Assets Facilities Planning Costs (Net of Accumulated Amortization)	24,442	24,442	24 749	24,442	- 58 589	- 58 589	102,827	- 58 589	3,216,983	3,216,983	1,902,429	3,216,983	3,216,983 83.031	3,216,983 83.031	1,902,429 127,576	3,216,983 83.031
Total Other Assets	1,268,495	1,268,495	761,457	1,268,495	1,591,105	1,591,105	1,959,110	1,591,105	233,210,059	238,776,559	233,959,205	244,343,059	236,069,659	241,636,159	236,679,772	247,202,659
Total Navarrant Assats	135 131 003	122 546 700	124 620 071	121 960 025	04 925 792	02 520 765	OF 674 002	00 707 000	246 402 062	244 200 245	205 426 500	204 077 707	E 42 4E0 947	E40 466 710	E1E 720 444	E16 E74 01E
Total Noncurrent Assets	135,131,002	133,546,700	134,639,971	131,869,925	91,835,782	92,530,765	95,671,883	92,727,283	316,193,063	314,389,245	285,426,590	291,977,707	543,159,847	540,466,710	515,738,444	516,574,915
Total Assets	145,347,190	147,253,060	148,212,425	148,118,046	114,368,924	112,742,079	128,250,636	110,329,864	345,926,302	340,058,936	306,574,732	314,563,001	605,642,416	600,054,074	583,037,793	573,010,911
Deferred Outflows of Resources	1															
Pensions	679,620	679,620	883,237	679,620	342,115	342,115	256,424	342,115	2,523,498	2,523,498	1,891,432	2,523,498	3,545,233	3,545,233	3,031,093	3,545,233
OPEB	56,117	56,117	-	56,117	-	-	-	-	662,093	662,093	-	662,093	718,210	718,210	-	718,210
Refunding Loss on Bonds Total Deferred Outflows	24,954 760,691	24,954 760,691	118,891 1,002,128	24,954 760,691	342,115	342,115	256,424	342,115	3,185,591	3,185,591	1,891,432	3,185,591	24,954 4.288.397	24,954 4,288,397	118,891 3.149,984	24,954 4,288,397
Total Deterred Outflows	760,091	700,091	1,002,128	760,091	342,115	342,115	200,424	342,115	3,100,091	3,103,391	1,091,432	3,100,091	4,200,397	4,200,397	3,149,984	4,200,397
Total Assets and Deferred Outflows of Resources	146,107,881	148,013,751	149,214,553	148,878,737	114,711,039	113,084,194	128,507,060	110,671,979	349,111,893	343,244,527	308,466,164	317,748,592	609,930,813	604,342,471	586,187,777	577,299,308

# LEHIGH COUNTY AUTHORITY STATEMENTS OF NET POSITION 2021 Budget and Comparative Prior Period Data

		Subu	rban		Suburban			City								
		Wat	er			Waste	water			Divisi	ion			Total	LCA	
	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual
	2021	2020	2020	2019	2021	2020	2020	2019	2021	2020	2020	2019	2021	2020	2020	2019
Current Liabilities:																
Accounts Payable - Trade	1,381,509	1,378,109	1,048,854	1,374,709	4,819,043	3,819,043	2,434,731	2,819,043	2,828,820	2,285,896	2,098,809	997,972	9,029,372	7,483,048	5,582,394	5,191,724
Accounts Payable - Capital	246,336	246,336	70,921	246,336	312,403	312,403	150,835	312,403	2,010,714	10,714	149,529	10,714	2,569,453	569,453	371,285	569,453
Accrued Interest Payable	233,600	233,600	237,699	233,600	3,346	3,346	3,346	3,346	1,105,780	1,105,780	1,128,362	1,105,780	1,342,726	1,342,726	1,369,407	1,342,726
Notes Payable	257,775	253,032	243,812	248,378	443,723	434,775	420,205	427,162	-	-	-	-	701,498	687,807	664,017	675,540
Revenue Bonds Payable	1,889,764	1,839,786	1,473,132	1,832,994	118,358	114,259	65,572	114,905	1,661,079	2,461,487	1,230,893	1,837,406	3,669,201	4,415,532	2,769,597	3,785,305
Developer Deposits and Other	554,977	554,977	195,273	554,977	2,950	2,950	6,019	2,950	19,805	19,805	26,016	19,805	577,732	577,732	227,308	577,732
Accrued Payroll & Other	226,234	226,234	220,498	226,234	132,867	132,867	136,100	132,867	494,941	494,941	509,717	494,941	854,042	854,042	866,315	854,042
Total Current Liabilities	4,790,195	4,732,074	3,490,189	4,717,228	5,832,690	4,819,643	3,216,808	3,812,676	8,121,139	6,378,623	5,143,326	4,466,618	18,744,024	15,930,340	11,850,323	12,996,522
Noncurrent Liabilities:																
Developer Deposits and Other	4,210,752	4,210,752	4,974,553	4,210,752	19,064	19,064	-	19,064	10,000	10,000	-	10,000	4,239,816	4,239,816	4,974,553	4,239,816
Service Concession Arrangement Payable	-	-	-	-	-	-	-	-	49,168,997	48,227,748	46,842,091	47,694,490	49,168,997	48,227,748	46,842,091	47,694,490
Notes Payable	1,727,302	1,985,077	2,486,487	2,238,109	4,723,957	5,167,680	6,029,617	5,602,455	-	-	-	-	6,451,259	7,152,757	8,516,104	7,840,564
OPEB Liability	-	-	-	-	-	-	-	-	2,944,923	2,944,923	2,020,079	2,944,923	2,944,923	2,944,923	2,020,079	2,944,923
Net Pension Liaiblity	956,221	956,221	336,866	956,221	481,353	481,353	351,481	481,353	3,550,538	3,550,538	1,250,814	3,550,538	4,988,112	4,988,112	1,939,161	4,988,112
Revenue Bonds Payable(Net of Premium/Discount)	31,797,039	33,686,803	38,943,024	35,526,589	1,134,475	1,252,833	22,832,476	1,367,092	344,325,374	342,007,464	311,169,773	314,470,387	377,256,888	376,947,100	372,945,273	351,364,068
Total Noncurrent Liabilities	38,691,314	40,838,853	46,740,930	42,931,671	6,358,849	6,920,930	29,213,574	7,469,964	399,999,832	396,740,673	361,282,757	368,670,338	445,049,995	444,500,456	437,237,261	419,071,973
Total Liabilities	43,481,509	45,570,927	50,231,119	47,648,899	12,191,539	11,740,573	32,430,382	11,282,640	408,120,971	403,119,296	366,426,083	373,136,956	463,794,019	460,430,796	449,087,584	432,068,495
Deferred Inflows of Resources																
Pensions	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
OPEB	119,297	119,297	361,361	119,297	-	-	-	-	-	-	1,341,769	-	119,297	119,297	1,703,130	119,297
Total Deferred Inflows	119,297	119,297	361,361	119,297	-	-	-	-	-	-	1,341,769	-	119,297	119,297	1,703,130	119,297
Net Position:																
Net Investment in Capital Assets	126,050,953	124,466,651	125,668,825	122,789,876	89,906,745	90,601,728	93,375,211	90,798,246	12,066,198	3,516,061	35,464	835,697	228,023,896	218,584,440	219,079,500	214,423,819
Restricted for Debt Service	1,043,094	1,043,094	1,380,654	1,043,094	-	-	-	-	37,684,197	37,684,197	37,684,197	37,684,197	38,727,291	38,727,291	39,064,851	38,727,291
Unrestricted	(24,586,971)	(23,186,218)	(28,427,406)	(22,722,429)	12,612,754	10,741,893	2,701,467	8,591,093	(108,759,474)	(101,075,027)	(97,021,349)	(93,908,258)	(120,733,691)	(113,519,353)	(122,747,288)	(108,039,594)
Total Net Position	102,507,075	102,323,527	98,622,073	101,110,541	102,519,500	101,343,621	96,076,678	99,389,339	(59,009,078)	(59,874,770)	(59,301,688)	(55,388,364)	146,017,497	143,792,378	135,397,063	145,111,516
Total Liabilities, Deferred Inflows of Resources and Net Position	146,107,881	148,013,751	149,214,553	148,878,737	114,711,039	113,084,194	128,507,060	110,671,979	349,111,893	343,244,527	308,466,164	317,748,592	609,930,813	604,342,471	586,187,777	577,299,308

# LEHIGH COUNTY AUTHORITY CASH & INVESTMENT SUMMARY 2021 Budget and Comparative Prior Period Data

	Suburban Water					Subur Wastev			City Division				Total LCA			
	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual
	2021	2020	2020	2019	2021	2020	2020	2019	2021	2020	2020	2019	2021	2020	2020	2019
Cash																
Operating	4 400 000	4.050.000	7.004.000	7 005 000	4 0 4 5 700	4 000 000		(044.000)	40.000.000		0.740.400	40 400 400	05 400 040	04 007 440		40.000.050
Unrestricted	1,168,222	4,658,393 2,532,181	7,664,396 203,046	7,205,363 2,532,181	4,315,728	1,993,900	16,997,744	(614,832)	19,638,366	14,974,819 1.614.754	9,748,180 2,307,084	12,490,422 1,614,754	25,122,316	21,627,112	34,410,320	19,080,953
Restricted Total Operating	2,532,181 3,700,403	7.190.574	7.867.442	9.737.544	4.315.728	1.993.900	(370) 16.997.374	(614.832)	1,614,754 21,253,120	16.589.573	12.055.264	14.105.176	25.122.316	21.627.112	34.410.320	19.080.953
Total Operating	5,700,403	7,130,074	7,007,442	3,737,344	4,010,720	1,000,000	10,557,574	(014,002)	21,200,120	10,000,070	12,000,204	14,100,170	20,122,010	21,027,112	04,410,020	13,000,333
Capital																
Unrestricted	2,042,457	2,042,457	2,037,248	2,037,248	7,672,019	7,672,019	7,672,019	7,672,019	169,980	169,980	169,980	169,980	9,884,456	9,884,456	9,879,247	9,879,247
Restricted	-	-	-	-	337,932	337,932	337,932	337,932	7,500,000	7,500,000	7,500,000	7,500,000	7,837,932	7,837,932	7,837,932	7,837,932
Total Capital	2,042,457	2,042,457	2,037,248	2,037,248	8,009,951	8,009,951	8,009,951	8,009,951	7,669,980	7,669,980	7,669,980	7,669,980	17,722,388	17,722,388	17,717,179	17,717,179
Other Restricted																
Debt Reserves	1,043,094	1,043,094	1,380,654	1,043,094	1 -	_	-	_	37,684,197	37,684,197	37,684,197	37,684,197	38,727,291	38,727,291	39,064,851	38,727,291
Escrow	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Other Restricted	1,043,094	1,043,094	1,380,654	1,043,094	-	-	-	-	37,684,197	37,684,197	37,684,197	37,684,197	38,727,291	38,727,291	39,064,851	38,727,291
Total Cash	6,785,954	10,276,125	11,285,344	12,817,886	12,325,679	10,003,852	25,007,325	7,395,119	66,607,297	61,943,750	57,409,441	59,459,353	81,571,995	78,076,791	91,192,350	75,525,423
Investments																
Investments Operating																
Unrestricted	2,136,930	2,136,930	785,733	2,136,930	6,757,276	6,757,276	(1,000,000)	6,757,276	_	-	_	-	8,894,206	8,894,206	(214,267)	8,894,206
Restricted	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-
Total Operating	2,136,930	2,136,930	785,733	2,136,930	6,757,276	6,757,276	(1,000,000)	6,757,276	-	-	=	-	8,894,206	8,894,206	(214,267)	8,894,206
• **																
Capital Unrestricted	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000					2,000,000	2,000,000	2,000,000	2,000,000
Restricted	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000		-	-	-	2,000,000	2,000,000	2,000,000	2,000,000
Total Capital	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000	-	_	_	-	2,000,000	2,000,000	2,000,000	2,000,000
•																
Other Restricted																
Debt Reserves	-	-	2,214,267	-	-	-	-	-	24,117,855	-	3,940,640	-	24,117,855	-	6,154,907	-
Escrow	4,236,279 4,236,279	4,236,279 4.236,279	4,411,722 6,625,989	4,236,279 4,236,279	-			-	24,117,855	-	3.940.640		4,236,279 28,354,134	4,236,279 4,236,279	4,411,722 10.566.629	4,236,279 4,236,279
Total Other Restricted	4,236,279	4,236,279	6,625,989	4,236,279	-	<del></del>	<u>-</u>	-	24,117,855		3,940,640	-	28,354,134	4,236,279	10,566,629	4,236,279
Total Investments	7,373,209	7,373,209	8,411,722	7,373,209	7,757,276	7,757,276	-	7,757,276	24,117,855	-	3,940,640	-	39,248,340	15,130,485	12,352,362	15,130,485
Total Cash and Investments	14,159,163	17,649,334	19,697,066	20,191,095	20,082,955	17,761,128	25,007,325	15,152,395	90,725,152	61,943,750	61,350,081	59,459,353	120,820,335	93,207,276	103,544,712	90,655,908
C																
Summary Cash																
Unrestricted	3,210,679	6,700,850	9,701,644	9,242,611	11,987,747	9,665,920	24,669,763	7,057,187	19,808,346	15,144,799	9,918,160	12,660,402	35,006,772	31,511,568	44,289,567	28,960,200
Restricted	3,575,275	3,575,275	1,583,700	3,575,275	337,932	337,932	337,562	337,932	46,798,951	46,798,951	47,491,281	46,798,951	50,712,158	50,712,158	49,412,543	50,712,158
Total Cash	6,785,954	10,276,125	11,285,344	12,817,886	12,325,679	10,003,852	25,007,325	7,395,119	66,607,297	61,943,750	57,409,441	59,459,353	85,718,930	82,223,726	93,702,110	79,672,358
					1											
Investments Unrestricted	2 426 020	2 126 020	4 70E 722	2 426 020	7 757 070	7 757 070	_	7 757 070					10 904 202	10 904 200	1 70F 700	10 904 200
Unrestricted Restricted	3,136,930 4,236,279	3,136,930 4,236,279	1,785,733 6,625,989	3,136,930 4,236,279	7,757,276	7,757,276	-	7,757,276	24,117,855	-	3.940.640	<u> </u>	10,894,206 28,354,134	10,894,206 4,236,279	1,785,733 10,566,629	10,894,206 4,236,279
Total Investments	7.373.209	7,373,209	8,411,722	7,373,209	7.757.276	7,757,276		7,757,276	24,117,855	-	3,940,640		39.248.340	15.130.485	12,352,362	15.130.485
	1,010,200	.,0.0,200	3, ,	. ,0. 0,200	1,101,210	7,101,210		7,101,210	2 1,111,000		0,0 10,0 10		35,2 15,540	. 5, 100, 100	.2,002,002	. 5, 100, 100
Total Cash and Investments	14,159,163	17,649,334	19,697,066	20,191,095	20,082,955	17,761,128	25,007,325	15,152,395	90,725,152	61,943,750	61,350,081	59,459,353	124,967,270	97,354,211	106,054,472	94,802,843

#### LEHIGH COUNTY AUTHORITY CONDENSED CASH FLOW STATEMENT 2021 Budget and Comparative Prior Period Data

CONDENSED CASH FLOWS
Operating Revenues
Operating Expenses
Net Cash Available for Debt Service
Debt Service
Net Cash After Debt Service
Interest Income
Other Payments
Investment Activity
Non-Cash Working Capital Dec (Inc)
Net Available for Capex
New Borrowing
Capex
NET CASH FLOWS
Beginning Unrestricted Cash Balance
ENDING HINDESTRICTED CASH BALANCE

KEY METRICS
Operating Ratio with D&A
Debt Service Coverage Ratio
Capital Coverage Ratio
Unrestricted Days Cash on Hand
Unrestricted Investment Balances

	Suburban Water									
Budget 2021	Forecast 2020	Budget 2020	Actual 2019							
12,742,424	11,342,949	11,358,510	10,948,822							
(8,637,776)	(6,134,848)	(7,334,728)	(6,027,132)							
4,104,648	5,208,101	4,023,782	4,921,690							
(3,499,146)	(3,517,659)	(3,341,564)	(3,270,166)							
605,502	1,690,442	682,218	1,651,524							
94,327	89,072	160,000	179,193							
-	-	-	-							
-	-	-	3,465,332							
-	-	-	6,150,814							
699,829	1,779,514	842,218	11,446,863							
-	-	5,119,500	-							
(4,190,000)	(4,321,275)	(8,010,000)	(8,764,955)							
(3,490,171)	(2,541,761)	(2,048,282)	2,681,907							
6,700,850	9,242,611	11,749,926	6,560,704							
3,210,679	6,700,850	9,701,644	9,242,611							

Suburban											
	Wastewater										
Budget	Forecast	Budget	Actual								
2021	2020	2020	2019								
20,032,585	19,029,103	17,292,436	15,679,444								
(13,248,399)	(11,391,541)	(12,355,646)	(11,716,436)								
6,784,186	7,637,562	4,936,790	3,963,008								
(731,029)	(737,954)	(1,616,435)	(712,225)								
6,053,157	6,899,608	3,320,355	3,250,783								
190,471	179,859	200,000	332,846								
-	-	-	-								
-	-	-	(1,266,225)								
-	-	-	6,668,638								
6,243,627	7,079,467	3,520,355	8,986,042								
-	-	22,635,000	-								
(3,921,800)	(4,470,734)	(8,670,500)	(10,671,537)								
2,321,827	2,608,733	17,484,855	(1,685,495)								
9,665,920	7,057,187	7,184,908	8,742,682								
11,987,747	9,665,920	24,669,763	7,057,187								

City									
Division									
Budget	Actual								
2021	2020	2020	2019						
46,003,744	37,595,382	41,672,288	39,313,514						
(19,229,140)	(18,501,175)	(18,659,910)	(18,165,550)						
26,774,603	19,094,207	23,012,378	21,147,964						
(14,225,917)	(12,648,837)	(15,421,170)	(13,416,749)						
12,548,686	6,445,370	7,591,208	7,731,215						
172,960	166,148	900,000	1,193,617						
(1,230,600)	(533,258)	(533,258)	(524,861)						
-	-	-	4,000,000						
50,000	(600,000)	-	(11,066,614)						
11,541,047	5,478,260	7,957,950	1,333,357						
2,000,000	-	-	-						
(8,877,500)	(2,993,864)	(4,815,000)	(4,399,156)						
4,663,547	2,484,397	3,142,950	(3,065,798)						
6,267,443	3,783,046	6,775,210	6,848,844						
10,930,990	6,267,443	9,918,160	3,783,046						

	Total	LCA	
Budget	Forecast	Budget	Actual
2021	2020	2020	2019
78,778,752	67,967,435	70,323,234	65,941,780
(41,115,315)	(36,027,565)	(38,350,284)	(35,909,118)
37,663,437	31,939,870	31,972,950	30,032,662
(18,456,092)	(16,904,450)	(20,379,169)	(17,399,140)
19,207,345	15,035,420	11,593,781	12,633,522
457,758	435,079	1,260,000	1,705,656
(1,230,600)	(533,258)	(533,258)	(524,861)
-	-	-	6,199,107
50,000	(600,000)	-	1,752,838
18,484,503	14,337,241	12,320,523	21,766,262
2,000,000	-	27,754,500	-
(16,989,300)	(11,785,873)	(21,495,500)	(23,835,648)
3,495,203	2,551,368	18,579,523	(2,069,386)
22,634,213	20,082,844	25,710,044	22,152,230
26,129,416	22,634,212	44,289,567	20,082,844

Budget	Forecast	Budget	Actual
2021	2020	2020	2019
1.13	1.29	1.13	1.27
1.20	1.51	1.25	1.56
0.17	0.41	0.11	0.21
135.62	398.45	482.56	559.73
3,136,930	3,136,930	1,785,733	3,136,930

Budget 2021	Forecast 2020	Budget 2020	Actual 2019
1.06	1.12	0.96	0.96
9.54	10.59	3.18	6.03
1.59	1.58	0.41	0.34
307.09	284.72	674.21	219.85
7,757,276	7,757,276	-	7,757,276

Budget 2021	Forecast 2020	Budget 2020	Actual 2019
1.66	1.46	1.53	1.56
1.68	1.48	1.52	1.63
1.29	2.03	1.65	1.91
182.33	115.60	117.89	71.12
-	-	-	-

Budget	Forecast	Budget	Actual
2021	2020	2020	2019
1.36	1.32	1.27	1.31
1.90	1.88	1.60	1.79
1.09	1.27	0.57	0.58
213.02	215.60	357.73	197.26
10 904 206	10 904 206	1 795 722	10 904 206

#### LEHIGH COUNTY AUTHORITY STATEMENTS OF CASH FLOWS - SUMMARY 2021 Budget and Comparative Prior Period Data

			Subur				Cit				Total	LCA				
	Budget 2021	Forecast 2020	Budget 2020	Actual 2019	Budget 2021	Forecast 2020	Budget 2020	Actual 2019	Budget 2021	Forecast 2020	Budget 2020	Actual 2019	Budget 2021	Forecast 2020	Budget 2020	Actual 2019
Cash Flows From Operating Activities																
Cash Received From Customers	11,770,317	10,519,685	10,445,176	9,606,687	19,122,546	15,579,443	15,365,176	14,672,863	42,247,349	35,164,897	36,907,592	37,928,276	73,140,212	61,264,025	62,717,944	62,207,826
Cash Payments To Suppliers For Goods And Services	(4,606,174)	(3,411,942)	(4,054,234)	(3,198,288)	(10,285,608)	(9,097,000)	(11,271,004)	(9,944,018)	(5,371,334)	(3,565,971)	(4,782,506)	(6,171,993)	(20,263,116)	(16,074,913)	(20,107,744)	(19,314,298)
Cash Payments To Employees For Services	(3,953,337)	(2,646,822)	(3,280,494)	(2,374,299)	(1,916,369)	(1,249,472)	(1,469,340)	(1,311,675)	(13,300,911)	(13,633,715)	(12,518,341)	(12,550,723)	(19,170,616)	(17,530,009)	(17,268,175)	(16,236,698)
Other Operating Cash Receipts	29,124	26,719	136,834	168,051	43,823	47,381	172	79,277	349,165	223,554	456,111	418,299	422,112	297,654	593,117	665,627
Net Cash Provided By Operating Activities	3,239,929	4,487,640	3,247,282	4,202,150	6,964,393	5,280,353	2,625,004	3,496,447	23,924,270	18,188,764	20,062,856	19,623,859	34,128,592	27,956,757	25,935,142	27,322,456
Cash Flows From Noncapital Financing Activities																
Interest Paid on Revenue Bonds and Notes	-	-	-	-	-	-	-	-	(11,565,086)	(10,608,837)	(13,978,238)	(13,416,749)	(11,565,086)	(10,608,837)	(13,978,238)	(13,416,749)
Facility Improvement Payments	-	-	-	-	-	-	-	-	-	-	-	(3,148,443)	-	-	-	(3,148,443)
Payments to the City of Allentown	-	-	-	-	-	-	=	-	(1,230,600)	(533,258)	(533,258)	(524,861)	(1,230,600)	(533,258)	(533,258)	(524,861)
Refunding Gain on Bonds	-	-	-		-	-	-		-	-			-	-	-	-
Transfers To/From Other Funds	-	-	-	5,976,539	-	-	-	4,388,173	-	-	(29,516)	(10,364,712)	-	-	(29,516)	-
Net Cash Provided By (Used in) Noncapital Financing Activities	-	-	-	5,976,539	-	-	-	4,388,173	(12,795,686)	(11,142,095)	(14,541,012)	(27,454,765)	(12,795,686)	(11,142,095)	(14,541,012)	(17,090,053)
Cash Flows From Capital And Related Financing Activities													1			
Receipts/(Release) of Developer Deposits	-	-	-	476,525	-	-	-	15,995	-	-	-	-	-	-	-	492,520
Payments of Developer Deposits	-	-	-	(705,174)	-	-	-	-	-	-	(3,789)	3,789	-	-	(3,789)	(701,385)
Payments of Facilities Planning Costs	-	-	-	(23,210)	-	-	-	(10,800)	-	-	-	-	-	-	-	(34,010)
Acquisition and Construction of Property and Equipment	(4,190,000)	(4,321,275)	(8,010,000)	(8,764,955)	(3,921,800)	(4,470,734)	(8,670,500)	(9,612,987)	(8,877,500)	(2,993,864)	(4,815,000)	(128,624)	(16,989,300)	(11,785,873)	(21,495,500)	(18,506,566)
Cash Received from Tapping and Capital Recovery Fees	443,721	500,109	472,000	418,775	835,098	3,396,323	800,000	1,573,749	1,773,409	1,460,927	1,534,700	1,707,127	3,052,228	5,357,358	2,806,700	3,699,651
Cash Received from Meter Sales Cash Received from Inspection, Plan Reviews, and Project R	100,744 367,574	55,361 211.855	108,000 161,000	94,763 393,187	30.489	5.364	45.282	42.518	23,387 2.151.185	39,787 934,544	292,000 2.495,100	22,466 448,401	124,131 2,549,248	95,148 1.151.763	400,000 2.701.382	117,229 884.105
Other Capital Cash Receipts	30,944	29,220	35,500	93,928	628	5,364	1,000	615	59.249	56,915	35,000	59,659	90,821	86,728	71,500	154,202
Other Capital Cash Receipts Other Capital Cash Payments	(78,264)	(76,084)	-	90,946	(1,046,422)	(1,045,070)	(299,707)	117,811	(2,377,545)	(2,186,729)	(1,329,547)	(1,281,395)	(3,502,231)	(3,307,883)	(1,629,254)	(1,072,638)
Revenue Bond and Note Issuance Proceeds	(70,204)	(10,004)	5,119,500	-	(1,040,422)	(1,040,070)	22,500,000	-	2,000,000	(2,100,723)	(1,023,047)	(1,201,555)	2,000,000	(5,507,505)	27,619,500	(1,072,000)
Principal Paid On Revenue Bonds	(1,839,786)	(1,832,994)	(1,588,963)	(1,481,325)	(114,259)	(114,905)	(114,905)	(78,904)	(2,570,000)	(2,040,000)	(1,442,932)	(1,245,000)	(4,524,045)	(3,987,899)	(3,146,800)	(2,805,229)
Notes Payable	(253,032)	(248,378)	(243,812)	(243,812)	(434,775)	(427,162)	(427,162)	(420,205)		- '	- '-	- 1	(687,807)	(675,540)	(670,974)	(664,017)
Interest Paid on Revenue Bonds and Notes	(1,406,328)	(1,436,287)	(1,508,789)	(1,468,258)	(181,995)	(195,887)	(803,082)	(213,115)	-	-	-	-	(1,588,323)	(1,632,174)	(2,311,871)	(1,681,373)
Net Cash Provided by (Used in) Capital and Related Financing A	(6,824,427)	(7,118,473)	(5,455,564)	(11,118,611)	(4,833,035)	(2,851,479)	13,030,926	(8,585,323)	(7,817,815)	(4,728,421)	(3,234,468)	(413,576)	(19,475,278)	(14,698,373)	4,340,894	(20,117,510)
Cash Flows From investing Activities																
Maturities of Certificates Of Deposit	-	-	-	3,808,000	-	-	1,612,859	14,866,203	-	-	-	-	_	_	1,612,859	18,674,203
Purchase of Certificates Of Deposit	-	-	-	(2,572,668)	-	-	-	(16,147,680)	-	-	-	-	-	-	-	(18,720,348)
Purchase of U.S. Treasury Obligations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maturities of U.S. Treasury Obligations	-	-	-	2,230,000	-	-	-	-	1,179,819	-	-	4,000,000	1,179,819	-	-	6,230,000
Interest Received On Investments	94,327	89,072	160,000	156,496	190,471	179,859	216,066	296,685	172,960	166,148	855,574	1,178,684	457,758	435,079	1,231,640	1,631,865
Net Cash Provided by (Used in) Investing Activities	94,327	89,072	160,000	3,621,828	190,471	179,859	1,828,925	(984,792)	1,352,779	166,148	855,574	5,178,684	1,637,577	435,079	2,844,499	7,815,720
Net Increase (Decrease) in Cash	(3,490,171)	(2,541,761)	(2,048,282)	2,681,907	2,321,828	2,608,733	17,484,855	(1,685,495)	4,663,547	2,484,397	3,142,950	(3,065,798)	3,495,204	2,551,368	18,579,523	(2,069,386)
Cash:													1			
Beginning	10,276,125	12,817,886	13,333,626	10,135,979	10,003,852	7,395,119	7,522,470	9,080,614	61,943,750	59,459,353	54,266,491	62,525,151	82,223,726	79,672,358	75,122,587	81,741,744
Ending	6,785,954	10,276,125	11,285,344	12,817,886	12,325,679	10,003,852	25,007,325	7,395,119	66,607,297	61,943,750	57,409,441	59,459,353	85,718,930	82,223,726	93,702,110	79,672,358
Cash Consisted of the Following:													1			
Cash Consisted of the Following:  Cash and Cash Equivalents	3,210,679	6,700,850	9,701,644	9,242,611	11,987,747	9,665,920	24,669,763	7,057,187	19.808.346	15,144,799	9,918,160	12,660,402	35,006,772	31.511.568	44,289,567	28,960,200
Restricted Cash and Cash Equivalents	3,575,275	3,575,275	1,583,700	3,575,275	337,932	337,932	337,562	337,932	46,798,951	46,798,951	47,491,281	46,798,951	50,712,158	50,712,158	49,412,543	50,712,158
	-,,	-,,0	.,,	,,	22.,202	,	,	,	,,	,,,	.,,	-,,	22,: :=,:00	,,	-,,	,,
Total Cash and Cash Equivalents	6,785,954	10,276,125	11,285,344	12,817,886	12,325,679	10,003,852	25,007,325	7,395,119	66,607,297	61,943,750	57,409,441	59,459,353	85,718,930	82,223,726	93,702,110	79,672,358
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# LEHIGH COUNTY AUTHORITY STATEMENTS OF ACTIVITIES AND CHANGES IN NET POSITION 2021 Budget and Comparative Prior Period Data

		Subu				Subur				Ci Divis				Total	LCA	
	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual
OPERATING FUNDS	2021	2020	2020	2019	2021	2020	2020	2019	2021	2020	2020	2019	2021	2020	2020	2019
Operating Revenues:																
User Charges	44 770 047	40 540 605	10,445,176	0.700.440	40 400 540	45 570 440	40 445 000	40.000.005	44 047 040	05 704 007	00.050.077	00 057 500	70 540 040	04 004 005	00 750 505	60,420,966
Charges for Services Rent	11,770,317	10,519,685		9,780,119	19,122,546	15,579,443	16,445,982	13,983,285	41,647,349	35,764,897	36,859,377	36,657,562	72,540,212	61,864,025	63,750,535	125,253
	20.404	- 00.740	111,213	125,253	43.823	47.381	470	70.077	349.165	000 554	450 444	440.000	400 440	297,654	111,213	540,374
Other Income	29,124 11,799,441	26,719 10,546,404	25,621 10.582.010	42,798 9.948.169	19.166.369	15,626,824	172 16.446.154	79,277 14.062.562	41,996,514	223,554 35,988,451	456,111 37.315.488	418,299 37.075.861	422,112 72.962.324	62.161.679	481,904 64,343,652	61,086,592
Total User Charges	11,799,441	10,546,404	10,582,010	9,948,169	19,166,369	15,626,824	16,446,154	14,062,562	41,996,514	35,988,451	37,315,488	37,075,861	72,962,324	62,161,679	64,343,652	61,086,592
Connection & System Charges																
Supply/Tapping Fees	382,712	411.960	387.000	360,815					22.342	3.579	18.500	21,462	405,054	415,539	405,500	382,277
Capital Cost Recovery	302,712		-	300,013	359.513	1,525,234	295,000	1,199,847	1,150,235	1,405,513	1,397,000	1,105,691	1,509,748	2,930,747	1,692,000	2,305,538
Distribution Tapping Fees	61,009	88,149	85,000	57,960	475,585	1,871,089	505,000	373,902	600,832	51,834	119,200	579,975	1,137,426	2,011,072	709,200	1,011,836
Meter Sales	100,744	55,361	108,000	94,763	473,303	1,071,005	303,000	373,302	23,387	39,787	292,000	22,466	124,131	95,148	400,000	117,229
Inspection & Review Fees	77,000	103,287	161,000	119,665	_	857	45,282	13,727	31,569	39,345	180,100	30,326	108,569	143,489	386,382	163,718
Developer Reimbursement	290,574	108,568	101,000	273,522	30.489	4.507	45,202	28,791	2,119,615	895,199	2,315,000	418,075	2,440,679	1,008,274	2,315,000	720,387
Total Connection & System Charges	912,039	767,325	741,000	906,725	865,588	3,401,686	845,282	1,616,267	3,947,981	2,435,257	4,321,800	2,177,994	5,725,607	6,604,268	5,908,082	4,700,985
Total Connection & System Charges	312,033	707,323	741,000	300,723	803,300	3,401,000	043,202	1,010,207	3,547,501	2,433,237	4,321,000	2,177,334	5,725,607	0,004,200	5,906,062	4,700,965
Other Income	30,944	29,220	35,500	93,928	628	593	1,000	615	59,249	56,915	35,000	59,659	90,821	86,728	71,500	154,202
													-	-	-	-
Total Operating Revenues	12,742,423	11,342,949	11,358,510	10,948,822	20,032,585	19,029,103	17,292,436	15,679,444	46,003,744	38,480,623	41,672,288	39,313,514	78,778,752	68,852,675	70,323,234	65,941,780
Operating Expenses:																
Personnel	3,289,603	2,383,805	3,127,169	2,402,145	1,760,954	1,130,381	1,464,464	1,340,615	11,561,494	12,145,543	10,869,860	11,387,931	16,612,051	15,659,728	15,461,493	15,130,692
General & Administrative	663,734	263,018	130,143	(4,664)	155,415	119,091	(36,072)	12,007	1,739,417	1,488,173	1,648,481	1,810,565	2,558,565	1,870,281	1,742,552	1,817,908
Utilities	543,917	461,746	616,038	432,898	449,485	369,199	481,172	374,031	2,156,620	1,878,480	2,199,029	2,083,543	3,150,021	2,709,425	3,296,239	2,890,473
Materials and Supplies	547,582	409,504	563,004	401,908	649,208	341,189	575,139	333,195	1,932,267	1,429,441	1,871,949	1,328,712	3,129,057	2,180,134	3,010,092	2,063,814
Miscellaneous Services	3,518,076	2,544,092	2,898,374	2,681,591	6,209,376	5,977,489	6,510,976	6,227,262	1,813,371	1,534,709	2,058,591	1,535,878	11,540,823	10,056,290	11,467,941	10,444,732
Treatment and Transportation	-	-	-	-	3,977,539	3,409,122	3,327,679	3,385,568	12,000	11,265	12,000	9,547	3,989,539	3,420,387	3,339,679	3,395,115
Depreciation and Amortization	2,605,699	2,644,500	2,750,000	2,602,179	4,616,783	4,667,252	4,603,000	4,571,072	5,893,862	5,880,000	5,880,000	5,835,507	13,116,343	13,191,752	13,233,000	13,008,758
Major Maintenance Expenses	3,400	3,400	3,400	-	1,000,000	1,000,000	1,000,000	-	542,924	1,287,924	2,782,916	1,250,412	1,546,324	2,291,324	3,786,316	1,250,412
Other Miscellaneous	74,864	72,684	-	113,254	46,422	45,070	32,288	43,757	2,123,972	898,805	-	9,373	2,245,258	1,016,559	32,288	166,384
Total Operating Expenses	11,246,874	8,782,748	10,088,128	8,629,311	18,865,181	17,058,793	17,958,646	16,287,508	27,775,926	26,554,340	27,322,826	25,251,468	57,887,982	52,395,881	55,369,600	50,168,287
Net Operating Profit	1.495.549	2.560.201	1.270.382	2.319.511	1.167.404	1.970.310	(666,210)	(608.064)	18.227.817	11.926.283	14.349.462	14.062.046	20.890.770	16.456.794	14.953.634	15.773.492
Net Operating From	1,433,343	2,300,201	1,270,302	2,313,311	1,107,404	1,370,310	(000,210)	(000,004)	10,227,017	11,320,203	14,343,402	14,002,040	20,030,770	10,430,734	14,303,034	13,773,432
Non-Operating Income (Expense)																
Investment Earnings	94.327	89.072	160,000	179,193	190,471	179,859	200,000	332,846	172,960	166,148	900,000	1,193,617	457,758	435,079	1,260,000	1,705,656
Interest (Expense)	(1,406,328)	(1,436,287)	(1,508,789)	(1,545,029)	(181,995)	(195,887)	(803,082)	(213,115)	(17,535,086)	(16,578,837)	(19,356,023)	(19,386,584)	(19,123,409)	(18,211,011)	(21,667,894)	(21,144,727)
Capital Grant	(1,100,020)	(1,100,201)	(1,000,700)	1,716,419	(101,000)	(100,007)	(000,002)	15,000	(17,000,000)	(10,070,007)	(10,000,020)	(10,000,001)	(13,123,403)	(10,211,011)	(21,007,004)	1,731,419
Capital Assets Provided by Developers	_	_	_		_	_	_	-	_	_	_	_		_	_	1,701,410
Net Non-Operating Income (Expense)	(1,312,001)	(1,347,215)	(1,348,789)	350.583	8.475	(16,028)	(603,082)	134,731	(17,362,125)	(16.412.689)	(18,456,023)	(18,192,967)	(18,665,651)	(17,775,932)	(20,407,894)	(17,707,652)
not non operating mount (Expense)	(1,512,001)	(1,047,210)	(1,040,700)	330,303	0,475	(10,020)	(000,002)	104,701	(17,502,125)	(10,412,000)	(10,400,020)	(10,132,301)	(10,000,001)	(17,770,332)	(20,407,004)	(17,707,032)
Net Income (Loss)	183,548	1,212,986	(78,407)	2,670,094	1,175,879	1,954,282	(1,269,292)	(473,333)	865,692	(4,486,406)	(4,106,561)	(4,130,921)	2,225,119	(1,319,138)	(5,454,260)	(1,934,160)
Net Position at Beginning of Year (As Restated)	102,323,527	101,110,541	98,700,480	98,440,447	101,343,621	99,389,339	97,345,970	99,862,672	(59,874,770)	(55,388,364)	(55,195,127)	(51,257,443)	143,792,378	145,111,516	140,851,323	147,045,676
Cumulative Effect of Change in Accounting principle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Net Position at Beginning of Year	102,323,527	101,110,541	98,700,480	98,440,447	101,343,621	99,389,339	97,345,970	99,862,672	(59,874,770)	(55,388,364)	(55,195,127)	(51,257,443)	143,792,378	145,111,516	140,851,323	147,045,676
Net Position at End of Year	102,507,075	102,323,527	98,622,073	101,110,541	102,519,500	101,343,621	96,076,678	99,389,339	(59,009,078)	(59,874,770)	(59,301,688)	(55,388,364)	146,017,497	143,792,378	135,397,063	145,111,516
CAPITAL RESERVE FUNDS																
Capital Water Reserve Funds	4.190.000	4.321.275	8,010,000	8,764,955	_	_	-	_	4.692.500	1.381.564	1.375.000	2.016.987	8.882.500	5.702.839	9.385.000	10,781,943
Capital WasteWater Reserve Funds	-, .55,500	.,02.,270	-	-	3.921.800	4.470.734	8.670.500	10.671.537	4,185,000	1,612,300	3.440.000	2,382,168	8,106,800	6.083.034	12.110.500	13.053.705
Capital Hadiotratol Model to Lands	4.190.000	4.321.275	8.010.000	8.764.955	3,921,800	4,470,734	8.670,500	10,671,537	8.877.500	2.993.864	4.815.000	4.399.156	16.989.300	11.785.873	21,495,500	23.835.648
	-,,,,,,,,,,,	-,,02.,,270	3,0.0,000	5,7 5 1,000		-,,	0,0.0,000	. 5,0. 1,001	5,5,500	2,000,004	-,,0.0,000	1,000,100	. 0,000,000	, ,	_1,100,000	_0,000,070

#### LEHIGH COUNTY AUTHORITY STATEMENTS OF ACTIVITIES AND CHANGES IN NET POSITION - AUDIT FORMAT 2021 Budget and Comparative Prior Period Data

	Suburban Water					Suburb	an			City						
						Wastewa				Divisi				Total	_	
	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual	Budget	Forecast	Budget	Actual
OPERATING FUNDS	2021	2020	2020	2019	2021	2020	2020	2019	2021	2020	2020	2019	2021	2020	2020	2019
Operating Revenues:	44 770 047	40 540 005	40 445 470	0.700.440	40 400 540	45 570 440	40 445 000	40.000.005	44.047.040	05 704 007	00 050 077	00.057.500				
Charges for Services	11,770,317	10,519,685	10,445,176	9,780,119	19,122,546	15,579,443	16,445,982	13,983,285	41,647,349	35,764,897	36,859,377	36,657,562	72,540,212	61,864,025	63,750,535	60,420,966
Rent	-	-	111,213	125,253	-	-	-		-	-	-	-	-	-	111,213	125,253
Other Income	29,124	26,719 10.546.404	25,621	42,798 9,948,169	43,823 19,166,369	47,381	172 16,446,154	79,277 14.062.562	349,165 41.996.514	223,554	456,111	418,299	422,112	297,654	481,904	540,374
Total Operating Revenues	11,799,441	10,546,404	10,582,010	9,948,169	19,166,369	15,626,824	16,446,154	14,062,562	41,996,514	35,988,451	37,315,488	37,075,861	72,962,324	62,161,679	64,343,652	61,086,592
Operating Expenses:	3.289.603	2.383.805	3.127.169	2,402,145	1,760,954	1.130.381	1.464.464	1,340,615	11.561.494	12.145.543	10.869.860	11,387,931	40.040.054	45.050.700	45 404 400	45 400 000
Personnel General & Administrative	663,734	263.018	130,143	(4,664)	155.415	119.091	(36,072)	12,007	1,739,417	1.488.173	1.648.481	1.810.565	16,612,051	15,659,728	15,461,493 1,742,552	15,130,692 1,817,908
Utilities	543,917	461,746	616,038	432,898	449,485	369,199	481,172	374,031	2,156,620	1,878,480	2,199,029	2,083,543	2,558,566 3,150,021	1,870,281 2,709,425	3,296,239	2,890,473
Materials and Supplies	547,582	409,504	563.004	401,908	649,208	341.189	575,139	333,195	1,932,267	1,429,441	1,871,949	1,328,712	3,129,057	2,180,134	3,010,092	2,063,814
Miscellaneous Services	3,518,076	2,544,092	2,898,374	2,681,591	6,209,376	5,977,489	6,510,976	6,227,262	1,813,371	1,534,709	2,058,591	1,535,878	11.540.823	10.056.290	11.467.941	10,444,732
Treatment and Transportation	5,510,070	2,044,032	2,030,014	2,001,001	3,977,539	3,409,122	3,327,679	3,385,568	12,000	11,265	12,000	9,547	3,989,539	3,420,387	3,339,679	3,395,115
Depreciation and Amortization	2.605.699	2.644.500	2,750,000	2.602.179	4.616.783	4.667.252	4.603.000	4,571,072	5.893.862	5.880.000	5.880.000	5,835,507	13.116.343	13.191.752	13.233.000	13.008.758
Total Operating Expenses	11.168.610	8,706,664	10.084.728	8.516.057	17.818.760	16.013.723	16,926,358	16.243.751	25.109.030	24.367.611	24.539.910	23,991,684	54.096.400	49,087,998	51,550,996	48,751,492
Total Operating Expenses	11,100,010	0,700,007	10,001,120	0,010,007	17,010,700	10,010,120	10,020,000	10,210,701	20,100,000	21,007,011	21,000,010	20,001,001	54,030,400	40,007,000	31,330,330	40,701,432
Operating Income	630.831	1,839,740	497.282	1.432.112	1.347.609	(386,900)	(480,204)	(2,181,189)	16.887.484	11.620.840	12,775,578	13,084,177	18.865.924	13.073.680	12.792.656	12.335.100
	,		•										,,	,,	,,,	,,
Captal Related Revenues (Expenses)																
Supply/Tapping Fees	382,712	411,960	387,000	360,815	-	-	-	-	22,342	3,579	18,500	21,462	405.054	415.539	405,500	382.277
Capital Cost Recovery	-			-	359,513	1,525,234	295,000	1,199,847	1,150,235	1,405,513	1,397,000	1,105,691	1,509,748	2,930,747	1,692,000	2,305,538
Distribution Tapping Fees	61,009	88,149	85,000	57,960	475,585	1,871,089	505,000	373,902	600,832	51,834	119,200	579,975	1,137,426	2,011,072	709,200	1,011,836
Meter Sales	100,744	55,361	108,000	94,763	-	-	-	-	23,387	39,787	292,000	22,466	124,131	95,148	400,000	117,229
Inspection & Review Fees	77,000	103,287	161,000	119,665	-	857	45,282	13,727	31,569	39,345	180,100	30,326	108,569	143,489	386,382	163,718
Developer Reimbursement	290,574	108,568	-	273,522	30,489	4,507	-	28,791	2,119,615	9,958	2,315,000	418,075	2,440,679	123,033	2,315,000	720,387
Other Income	30,944	29,220	35,500	93,928	628	593	1,000	615	59,249	56,915	35,000	59,659	90,821	86,728	71,500	154,202
Major Maintenance Expenses	(3,400)	(3,400)	(3,400)	-	(1,000,000)	(1,000,000)	(1,000,000)	-	(2,652,924)	(1,287,924)	(2,782,916)	(1,250,412)	(3,656,324)	(2,291,324)	(3,786,316)	(1,250,412)
Other Miscellaneous	(74,864)	(72,684)	-	(113,254)	(46,422)	(45,070)	(32,288)	(43,757)	(13,972)	(13,565)	-	(9,373)	(135,258)	(131,318)	(32,288)	(166,384)
Total Capital Related Revenues (Expenses)	864,719	720,461	773,100	887,399	(180,206)	2,357,210	(186,006)	1,573,125	1,340,334	305,443	1,573,884	977,868	2,024,846	3,383,114	2,160,978	3,438,392
PROFIT (LOSS) FROM OPERATING ACTIVITIES	1,495,549	2,560,201	1,270,382	2,319,511	1,167,403	1,970,310	(666,210)	(608,064)	18,227,817	11,926,283	14,349,462	14,062,046	20,890,770	16,456,794	14,953,634	15,773,492
Non-Operating Income (Expense)																
Investment Earnings	94,327	89,072	160,000	179,193	190,471	179,859	200,000	332,846	172,960	166,148	900,000	1,193,617	457,758	435,079	1,260,000	1,705,656
Interest (Expense)	(1,406,328)	(1,436,287)	(1,508,789)	(1,545,029)	(181,995)	(195,887)	(803,082)	(213,115)	(17,535,086)	(16,578,837)	(19,356,023)	(19,386,584)	(19,123,409)	(18,211,011)	(21,667,894)	(21,144,727)
Capital Grant	-	-	-	1,716,419	-	-	-	15,000	-	-	-	-	-	-	-	1,731,419
Capital Assets Provided by Developers	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
Net Non-Operating Income (Expense)	(1,312,001)	(1,347,215)	(1,348,789)	350,583	8,475	(16,028)	(603,082)	134,731	(17,362,126)	(16,412,689)	(18,456,023)	(18,192,967)	(18,665,651)	(17,775,932)	(20,407,894)	(17,707,652)
NET INCOME (LOCA)																
NET INCOME (LOSS)	183,548	1,212,986	(78,407)	2,670,094	1,175,879	1,954,282	(1,269,292)	(473,333)	865,692	(4,486,406)	(4,106,561)	(4,130,921)	2,225,119	(1,319,138)	(5,454,260)	(1,934,160)
Not Begition at Beginning of Year (As Bestated)	102.323.527	101.110.541	98.700.480	98.440.447	101.343.621	99.389.339	97.345.970	99.862.672	(59.874.770)	(55.388.364)	(55.195.127)	(51,257,443)	142 702 270	145 111 510	140 0E1 200	147 045 670
Net Position at Beginning of Year (As Restated)	102,323,321	-	30,700,400	55,440,447	101,343,021	33,303,339	51,040,570	55,002,012	(33,014,110)	(55,500,504)	(55,155,127)	(01,201,440)	143,792,378	145,111,516	140,851,323	147,045,676
Cumulative Effect of Change in Accounting principle	102.323.527	101.110.541	98.700.480	98.440.447	101.343.621	99.389.339	97.345.970	99.862.672	(59.874.770)	(55.388.364)	(55.195.127)	(51,257,443)	143.792.378	145.111.516	140.851.323	147.045.676
Net Position at Beginning of Year	102,323,327	101,110,541	98,700,480	90,440,447	101,343,621	aa,38a,339	91,343,970	99,862,672	(59,874,770)	(35,388,364)	(55,195,127)	(51,257,443)	143,/92,3/8	143,777,576	140,851,323	147,040,076
Net Position at End of Year	102.507.075	102.323.527	98.622.073	101.110.541	102.519.499	101.343.621	96.076.678	99.389.339	(59.009.078)	(59.874.770)	(59.301.688)	(55.388.364)	146.017.497	143.792.378	135.397.063	145.111.516
vol.o at End of Tola	.02,007,073	. 52,525,527	55,022,075	, ,	102,010,433	.51,040,021	55,070,070	00,000,000	(55,005,576)	(55,017,110)	(55,501,550)	(55,500,504)	.40,017,437	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	.00,007,000	, 1 1 1 , 5 1 0

System Statements

[	Suburban - Water Systems																	
			Western	Lehigh Servic	e Area	S. Lehigh				Service Area			Northampton			To		
	Int Serv 100	Undesignated 200	Central Lehigh A 201	rcadia West 211	Emmaus 209	207	lorth Whiteha 202	wasnington 203	204	Heidelberg 205	PL of Lynn Ma 206	221	CFE 208	Buss Acres 210	Budget 2021	Forecast 2020	Budget 2020	Actual 2019
Operating Revenues:																		
User Charges																		
Large Industrial Other Industrial/Commercial		-	1,357,824 4,308,847	26,446	3,221	-	50.801	3,787	-	-	-	-	-	248	1,357,824 4.393,350	1,245,710 3,751,826	1,191,187 3,697,016	1,118,032 3,404,641
Residential		-	4,100,157	20,440	92,035	8,340	208,809	73,854	6,921	36,604	11,091	23,749	13,182	21,950	4,596,692	4,217,149	4,067,530	3,889,306
Penalties		-	24,035	242	247	20	373	372	22	135	32	82	35	31	25,627	23,511	96,138	103,807
Private Fire Service		-	722,542	211,210	-	-	5,061	1,633	-	-	-	-	-	-	940,447	862,795	881,402	846,199
Public Fire Service User Charges - Municipal		-	420,155		-	-	19,215	9,219	•	-	-	-	-	-	448,588	411,549	436,903	378,629
User Charges - Residential & Commercial		-	-		-	-	_	_		-	-		-		_	-		-
User Charges - Hauler		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hauler Fees		=	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Industrial Charges Industrial Pretreatment Revenues		-	-		-	-	-	-	•	-	-	-	-	-	-	-		•
Municipal		-	-		-	-	_	_		-	-		-		_	-		-
Leachate Program Revenues		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Income		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Water Sales Provision for Doubtful Debts		-	7,788	-	-	-	-	-	-	-	-	-	-	-	7,788	7,145	75,000	51,553 (12,049)
Total Charges for Services	-	-	10,941,348	237,898	95,504	8,360	284,260	88,865	6,943	36,739	11,123	23,831	13,217	22,229	11,770,317	10,519,685	10,445,176	9,780,119
			, ,	,000	20,004	0,000		23,000	3,0.0	-5,.00	,.20	,	.0,2.17	,	,,	,	-, ,	-,0,
Rental Income		-		-	-	-	-	-	-	-	-	-	-	-	1		111,213	125,253
Miscellaneous Total User Charges		-	29,124 10,970,472	237,898	95,504	8,360	284,260	88,865	6,943	36,739	11,123	23,831	13,217	22,229	29,124	26,719 10,546,404	25,621 10,582,010	42,798 9,948,169
Total Oser Charges	•	-	10,970,472	237,090	95,504	0,300	204,200	00,000	0,943	30,739	11,123	23,031	13,217	22,229	11,799,441	10,546,404	10,362,010	9,940,109
Connection & System Charges																		
Supply/Tapping Fees		-	372,244	-	-	-	10,468	-	-	-	-	-	-	-	382,712	411,960	387,000	360,815
Capital Cost Recovery		-	46,395	-	-	-	14,614	-	-	-	-	-	-	-	61,009	88,149	85,000	57,960
Distribution Tapping Fees Meter Sales		-	95,339		-	-	5,405	-		-	-		-	-	100,744	55,361	108,000	94,763
Inspection & Review Fees		-	75,337	-	-	-	1,663	-	-	-	-	-	-	-	77,000	103,287	161,000	119,665
Developer Reimbursement		-	287,738	-	-	-	2,837	-	-	-		-	-	-	290,574	108,568	-	273,522
Total Connection & System Charges	-	-	877,052	-	-	-	34,987	-	-	-	-	-	-	-	912,039	767,325	741,000	906,725
Other Miscellaneous Revenues																		
Other Income		-	28,237	-	883	-	750	427	29	177	15	280	44	103	30,944	29,220	35,500	93,928
Total Other Miscellaneous Revenues		-	28,237	-	883		750	427	29	177	15	280	44	103	30,944	29,220	35,500	93,928
Total Operating Revenues	_		11,875,761	237,898	96,386	8,360	319,997	89,291	6,972	36,916	11,138	24,110	13,261	22,332	12,742,423	11,342,949	11,358,510	10,948,822
Total Operating Nevertues	-	-	11,075,761	231,090	90,300	0,300	319,997	09,291	0,972	30,910	11,130	24,110	13,201	22,332	12,742,423	11,342,949	11,330,310	10,940,022
Operating Expenses:																		
Personnel																		
Salaries and Wages Overtime	658,245 1.434	-	910,116 108,218	29,604 6.313	12,732 2.035	16,505 1.010	73,137 11.392	13,187 1.363	15,474 1.761	29,881 4.393	22,548 2.815	16,411 1,749	17,617 1,386	28,805 1,163	1,844,261 145.031	1,460,145 86.511	1,783,421 96.833	1,568,044 92,322
Taxes	52,991	-	78,621	2,760	1,160	1,388	6.562	1,156	1,761	2,682	2,002	1,433	1,516	2,404	156,038	117,282	144,062	124,429
Fringe Benefits	356,459	-	600,945	21,112	8,876	10,619	50,201	8,844	10,433	20,518	15,317	10,962	11,593	18,393	1,144,272	719,866	1,082,607	617,351
Other Personnel Related	-	-			-	-						-	-			<u> </u>	20,246	-
Total Personnel	1,069,128	-	1,697,900	59,790	24,802	29,522	141,293	24,550	29,032	57,473	42,681	30,554	32,112	50,765	3,289,603	2,383,805	3,127,169	2,402,145
Purchase of Services																		
General & Administrative	(1,095,178)	-	1,527,515	10,654	22,395	5,358	126,665	22,314	5,264	10,353	7,729	5,532	5,851	9,282	663,734	263,018	130,143	(4,664)
Utilities	19,849	-	420,418	17,754	234	5,768	28,450	1,530	6,268	16,086	4,969	7,623	7,839	7,129	543,917	461,746	616,038	432,898
Compliance Contract Operating Svcs	6,201		28,000 2,520	2,458 2,240	2,373	873 1,850	4,500 10,400	1,410	675 2,240	1,410 7,640	873 2,240	873 2,240	873 2,600	873 4,300	51,392 38.270	57,482 54,460	67,745 38,270	57,166 53,784
Engineering	-	=	55,000	-	-		-	-	-				-	-	55,000	52,960	42,000	52,245
Extraordinary Expenditures	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Exceptional Strength Analysis	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	59.426	-	-
Fleet Management Services General Analyses	-	-	28,000 40,000	4,000	900	2,600	5,000	1,000	700	5,800	2,400	3,000	2,160	5,076	28,000 72,636	59,426 35,591	24,500 83,856	23,937 21,403
Industrial Meter Testing	-	-	8,500	-,000	-		-	-	-	-	-,400	-	2,100	-	8,500	-	7,500	-1,700
Maintenance Services	-	-	242,453	36,350	16,000	2,800	34,600	550	3,150	53,000	7,900	5,550	5,100	7,400	414,853	182,946	401,803	385,878
Miscellaneous Services	-	-	24,750	50	-	100	25	-	-	-	100	-	-	-	25,025	110,964	83,300	109,428
Rental Residuals	-	-	-	-	-	-	-	-	-	-	-	- 1	-	- 1	-	-	-	-
Water Purchases	-		2,210,400	-	26,000	-	458,000	130,000	-	-	-	- 1	-	] []	2,824,400	1,990,262	2,149,400	1,977,750
System Planning / Capital Management	-	-		-	-,	-	-	-	-	-	-	-	-	-		-		-
LCA WWTP Treatment/Removals	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Treatment and Transportation Total Purchase of Services	(1,069,128)	-	4,587,556	73,505	67,902	19,349	667,640	156,803	18,297	94,290	26,211	24,818	24,422	34,060	4,725,726	3,268,855	3,644,555	3,109,825
Total Fulcilase Of Services	(1,069,128)	-	4,587,556	73,505	67,902	19,349	040,040	1508,803	18,297	94,290	20,211	24,818	24,422	34,000	4,725,726	3,208,805	3,044,005	3,109,825

#### **LEHIGH COUNTY AUTHORITY** STATEMENTS OF ACTIVITIES - SUBURBAN - WATER FUND 2021 Budget and Comparative Prior Period Data

Materials & Supplies	
Purification Chemicals	
Purification Supplies	
Pump Supplies	
Misc. Materials & Supplies	
Fuel & Mileage	
Fleet Management Supplies	
Equipment	
Leased Equipment	
Distribution & Transmission Supplies	
Collection System Supplies	
Total Materials & Supplies	
Depreciation and Amortization	
Other Expenses	
Major Maintenance Expenses	
Other Miscellaneous	
Total Other Expeses	
Total Operating Expenses	
Net Operating Profit (Loss)	
Non-Operating Income (Expense)	
Investment Earnings	
Interest (Expense)	
Capital Contributed	
Other Miscellaneous	

Net Non-Operating Income (Expense)

Net Income (Loss)

						Suburban - Wa	ter Systems										
			Lehigh Servic		S. Lehigh			orthern Lehig				Northampton			To		
		Central Lehigl A		Emmaus		orth Whiteha					Madison Nortl		Buss Acres	Budget	Forecast	Budget	Actual
100	200	201	211	209	207	202	203	204	205	206	221	208	210	2021	2020	2020	2019
		45.000				000							7.000	50.400		E0 000	
-	-	45,000	3,300	-	200	900	-	300	800	200	200	200	7,300	58,400	38,899	59,600	38,611
-	-	27,000	2,200	-	1,800	2,100	3,800	4,200	2,500	3,447	3,100	1,800	4,100	56,047	36,043	60,000	35,487
-	-	21,500	5,050	-	1,400	4,500	-	150	6,300	-	2,500	2,950	1,650	46,000	46,176	37,900	45,610
-	-	36,480	900		300	3,000	50	1,000	2,200	300	1,000	700	500	46,430	39,182	41,524	38,648
-	-	45,500	1,800	800	950	4,600	1,250	950	1,350	950	900	1,000	1,100	61,150	43,828	66,300	43,382
-	-	3,800	-	-		-	-	-	-	-	-	40.000	- 450	3,800	5,018	2,500	2,036
-	-	67,865	6,800	-	7,000	7,000	-	1,800	11,800	2,800	-	12,600	150	117,815	71,693	139,720	70,589
-	-	46,000									-	-		46,000		46,000	
-	-	78,600	810	4,600	300	18,500	4,210	1,200	1,500	1,720	-	-	500	111,940	128,665	109,460	127,546
	-	371.745		5,400	11.950	40,600	0.040	- 0.000	- 00 450	0.447	7.700	40.050	45.000	547.500	400.504	-	404.000
-	-	3/1,/45	20,860	5,400	11,950	40,600	9,310	9,600	26,450	9,417	7,700	19,250	15,300	547,582	409,504	563,004	401,908
		2 605 600												2 605 600	2 644 500	2,750,000	2,602,179
-	-	2,605,699	-	-	-	-	-	-	-	-	-	-	-	2,605,699	2,644,500	2,750,000	2,602,179
																	I.
	3,400													3,400	3,400	3,400	
	3,400	74.864	-	-	-	_	-	-	-	-	-	_	-	74,864	72.684	3,400	113,254
-	3,400	74,864			-	-						-		78,264	76,084	3,400	113,254
_	3,400	74,004			-	_						-	_	70,204	70,004	3,400	113,234
-	3,400	9.337.765	154,155	98.104	60.822	849.533	190.663	56.928	178,213	78.310	63.073	75.785	100.125	11.246.874	8,782,748	10.088.128	8,629,311
	,	-,,	,		,	2.0,000	,		,		,		,	,,	-,,,,	,,	
-	(3,400)	2,537,996	83,744	(1,718)	(52,461)	(529,536)	(101,372)	(49,956)	(141,297)	(67,171)	(38,962)	(62,523)	(77,793)	1,495,549	2,560,201	1,270,382	2,319,511
-	72,039	22,288	-	-	-	-	-	-	-	-	-	-	-	94,327	89,072	160,000	179,193
-	(13,616)	(1,388,787)	-	-	-	-	(3,925)	-	-	-	-	-	-	(1,406,328)	(1,436,287)	(1,508,789)	(1,545,029)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,716,419
-	-	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	
-	58,423	(1,366,499)	-	-	-	-	(3,925)	-	-	-	-	-	-	(1,312,001)	(1,347,215)	(1,348,789)	350,583
-	55,023	1,171,497	83,744	(1,718)	(52,461)	(529,536)	(105,297)	(49,956)	(141,297)	(67,171)	(38,962)	(62,523)	(77,793)	183,548	1,212,986	(78,407)	2,670,094

# LEHIGH COUNTY AUTHORITY STATEMENTS OF ACTIVITIES - SUBURBAN - WASTEWATER FUND 2021 Budget and Comparative Prior Period Data

Г							Suburbai	n - Wastewater	Systems										
			erceptor Grou				CR	CS							W.Weisenberg		To		
	Int Serv 100	WLI 312	LLRI 1 313	LLRI 2 314	Heidelberg U 305	pper Milford	Wynnewood 316	Weisenberg S 317	Sand Spring L 319	owhill Twp. 323	NLSA 318	Washington 303	Lynn Twp. 322	WWTP 320	Arcadia West 311	Budget 2021	Forecast 2020	Budget 2020	Actual 2019
Operating Revenues:																			
User Charges																			
Large Industrial Other Industrial/Commercial		-	-			-	-	-	-	-	-		-	-	49,962	49,962	29.365	40,000	39,805
Residential		-		-	-			-	-	-		-			-	-	-	-	-
Penalties		155,954	-	-	2,089	6,741	1,782	952	48	195	-	(0)	11,300	7,428	2,686	189,176	173,556	261,950	133,509
Private Fire Service Public Fire Service		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
User Charges - Municipal		8,539,091	573.623	52,466	_			-	-	-			-	-	-	9.165.180	6.354.798	7.713.159	5.504.559
User Charges - Residential & Commercial		-	-		78,939	383,634	152,274	61,619	96,005	14,648	-	0	352,882	4,213,802	339,440	5,693,243	5,727,709	5,035,059	5,374,132
User Charges - Hauler		-	-	-	-	-	-	-	-	-	-	-	-	3,876,343	-	3,876,343	3,109,771	3,249,705	3,031,854
Hauler Fees Industrial Charges		-	-	-	-	-	-	-	-	-	-	-	-	31,828 58,860	-	31,828 58,860	16,000 71,232	15,000	48,950
Industrial Charges Industrial Pretreatment Revenues		-	-			-	-	-	-	-	-		-	58,860		58,860	71,232	-	21,883
Municipal		35,058	-	-	-	20,854	-	1,097	-	-	-	-	-	945	-	57,954	86,947	130,100	127,311
Leachate Program Revenues		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other Income		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10,066	1,009	15,819
Other Water Sales Provision for Doubtful Debts		-	-	-		-	-	-	-	-	-	-	-	-		1 -	-	-	(314.537)
Total Charges for Services	-	8,730,103	573,623	52,466	81,028	411,229	154,057	63,667	96,054	14,842	-	0	364,183	8,189,207	392,088	19,122,546	15,579,443	16,445,982	13,983,285
																1			
Rental Income Miscellaneous		23,604	90	-	-	101	-	73	- 75	-	-	-	- 101	19.776	- 2	43.823	- 47.381	- 172	- 79,277
Total User Charges	-	8,753,707	573,713	52,466	81,028	411,330	154,057	63,740	96,129	14,842		0	364,283	8,208,982	392,091	19,166,369	15,626,824	16,446,154	14,062,562
		-,, -	,			,	- ,	,		,-			,	.,,		,,	-,,-		,,
Connection & System Charges																			
Supply/Tapping Fees		278,869	80,644	-	-	-	-	-	-	-	-	-	-	-	-	359,513	1,525,234	295,000	1,199,847
Capital Cost Recovery Distribution Tapping Fees		460,023	00,044		15,562			-	-	-			-	-	-	475,585	1,871,089	505,000	373,902
Meter Sales		-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-
Inspection & Review Fees		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	857	45,282	13,727
Developer Reimbursement		738,892	80,644	-	15,562	28,361 28,361	-	265 265	784 784	-	-	-	1,080 1,080	-		30,489 865,588	4,507 3,401,686	845,282	28,791 1,616,267
Total Connection & System Charges	-	730,092	00,044		15,562	20,301		205	704	-	-	- 1	1,000		-	005,500	3,401,000	043,202	1,616,267
Other Miscellaneous Revenues																			
Other Income	-	-	-	-	-	250	66	-	-	-	-	89	210		13	628	593	1,000	615
Total Other Miscellaneous Revenues	-	-	-	-	-	250	66	-	-	-	-	89	210	•	13	628	593	1,000	615
Total Operating Revenues	-	9,492,600	654,358	52,466	96,590	439,940	154,122	64,005	96,913	14,842	-	89	365,573	8,208,982	392,104	20,032,585	19,029,103	17,292,436	15,679,444
Operating Expenses: Personnel																			
Salaries and Wages	323,524	143,616	61,585	6,677	58,650	53,191	48,712	4,331	36,299	1,423	_	4,385	84,555	26,180	53,470	906,600	640,256	876,544	800,761
Overtime	983	9,437	2,553	1,109	1,646	588	1,295	278	1,445	-,	-	528	606		1,653	22,120	61,971	66,386	66,539
Taxes	24,453	11,925	5,050	572	4,763	4,271	3,973	357	2,965	113	-	407	6,734	2,062	4,361	72,005	60,492	66,479	66,332
Fringe Benefits	146,448	153,914	65,177	7,381	61,476	55,121	51,293	4,615	38,262	1,446	-	5,259	86,921	26,612	56,304	760,228	367,662	444,778	406,984
Other Personnel Related Total Personnel	495,408	318,892	134,365	15,740	126,534	113,171	105,274	9,581	78,970	2,981		10,579	178,816	54,854	115,788	1,760,954	1,130,381	10,277 1,464,464	1,340,615
	,	,-,-	- ,- ,-	-,		-, -	,	-,	-,	,			-,	- ,		1	,,		,,.
Purchase of Services	(54.505)	004.050	00 115	4	40.500	00.070	45	4 000	44 510			30.5	400.045	00.00-	40.045	4==	440.000	(00.075)	40.007
General & Administrative Utilities	(511,536) 15,503	231,953 111,216	98,113 203,488	11,112 116	18,506 11,747	82,976 544	15,440 32,292	1,389 96	11,518 15,037	435	-	7,915 214	130,842 31,612	39,803	16,948 27,620	155,415 449,485	119,091 369,199	(36,072) 481,172	12,007 374,031
Compliance	624	-	125	-	5,375	-	1,441	-	1,441	-			1,753		815	11,574	23,766	6,819	4,311
Contract Operating Svcs	-	-	-	-	9,000	-	15,000	-	12,200	-	-	-	-	5,389,877	-	5,426,077	5,552,783	5,725,909	5,566,915
Engineering	-	-	5,000	-	-	-	-	-	-	-	-	-	-	60,000	2,000	67,000	106,150	67,000	88,579
Extraordinary Expenditures Exceptional Strength Analysis	-	43,000	-	-	-		•	-	-	-		-	•	-	-	43,000	-	43,000	-
Exceptional Strength Analysis Fleet Management Services		16,000	-		]			-	-	-		] []	-	-	] []	16,000	10,701	18,000	10,637
General Analyses	-	3,300	-	-	20,000	-	7,000	-	5,000	-	-	-	7,000	500	10,000	52,800	54,920	52,800	54,360
Industrial Meter Testing	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maintenance Services	-	107,750	81,800	8,000	48,350	3,000	29,200	•	9,400	5,000	-	19,000	61,200	1,000	16,000	389,700	161,207	329,300	357,736
Miscellaneous Services Rental	-	4,650	300	-	1,850	-	1,300	-	305	-	-	1,300	315	89,900	305	100,225	30,070	93,400 73,748	29,683 77,286
Residuals		-	-	-	10,000	-	20,000	-	10,000	-	-	-	48,000	-	15,000	103,000	37,893	101,000	37,754
Water Purchases	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-
System Planning / Capital Management	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
LCA WWTP Treatment/Removals Treatment and Transportation	-	3.687.295	-	-	-	251.355	-	31.282	-	7.607	-	-	-	-	[ ]	3.977.539	3.409.122	3,327,679	3.385.568
Total Purchase of Services	(495,408)	0,000.,=00	388,826	19,228	124,828	337,876	121,673	31,282	64,901	13,042		28,428	280,721	5,581,080	88,688	10,791,815	9,874,901	10,283,755	9,998,868
	(100,100)	1,200,104	000,020	.0,220	, .2.,020	00.,0.0	.2.,0.0	02,.07	01,001	.0,0 .2		20, .20	200,721	3,001,000	55,556	.0,.0.,010	3,01 1,001	. 5,200,. 50	2,000,000

#### LEHIGH COUNTY AUTHORITY STATEMENTS OF ACTIVITIES - SUBURBAN - WASTEWATER FUND 2021 Budget and Comparative Prior Period Data

Materials & Supplies Purification Chemicals Purification Supplies Pump Supplies
Misc. Materials & Supplies Fuel & Mileage Fleet Management Supplies Equipment Leased Equipment Distribution & Transmission Supplies Collection System Supplies Total Materials & Supplies Depreciation and Amortization

Other Expenses

Major Maintenance Expenses Other Miscellaneous Total Other Expeses

Total Operating Expenses

Net Operating Profit (Loss)

Non-Operating Income (Expense) Investment Earnings Interest (Expense) Capital Contributed Other Miscellaneous Net Non-Operating Income (Expense)

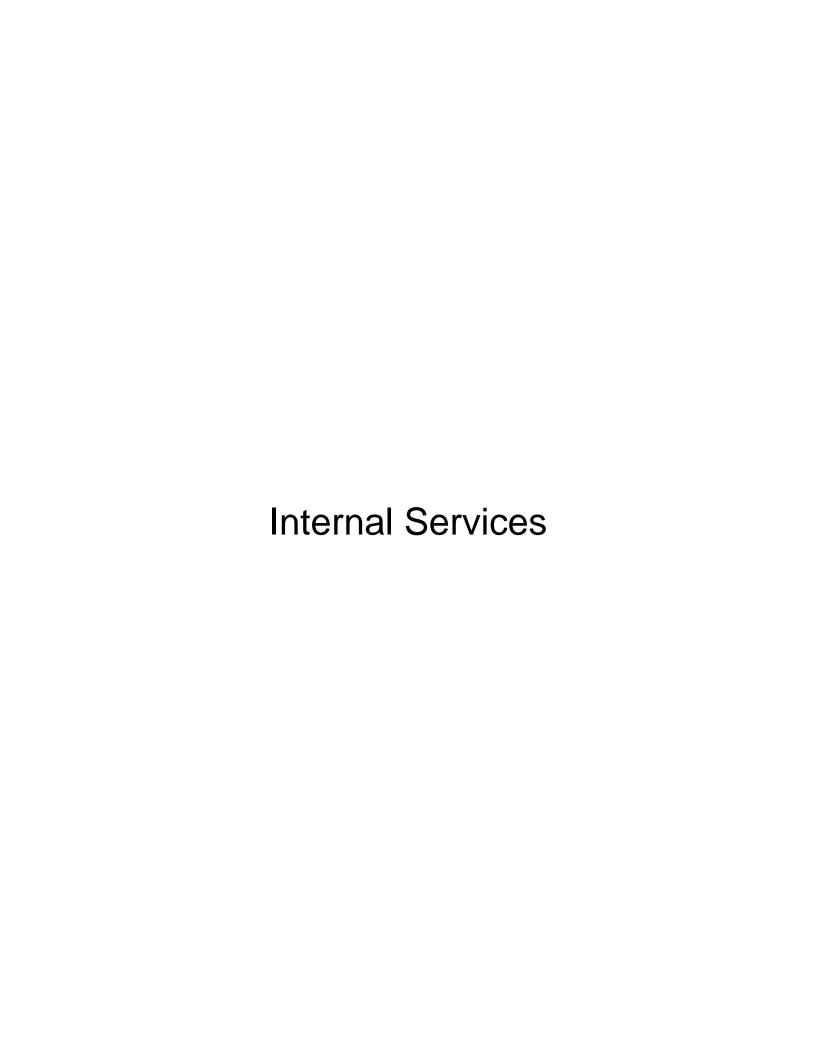
Net Income (Loss)

						Suburba	n - Wastewate											
		rceptor Group				CR								W.Weisenberg		Tot	tal	
Int Serv	WLI	LLRI 1	LLRI 2		Upper Milford V					NLSA	Washington	Lynn Twp.	WWTP	Arcadia West	Budget	Forecast	Budget	Actual
100	312	313	314	305	315	316	317	319	323	318	303	322	320	311	2021	2020	2020	2019
-	-	-	-	8,800	-	9,200	-	15,200	-	-	-	39,900	-	13,800	86,900	59,950	88,650	59,472
-	-	-	-	-	-		-	-	-	-	4 500	-	-		-	-	-	
-	3,000	5,000	4.500	10,000	- 0.000	6,500	0.000	3,000	0.000	-	1,500	10,500 16.600	0.500	7,000 17,300	46,500	13,955	44,100	8,467 52,361
-	36,728	5,200	1,500 350	24,300 1,500	2,300 650	7,750	2,200 350	6,500 2,600	2,000 150	-	1,400 500	3,600	6,500		130,278	52,874	121,209	19,538
-	10,000	3,000	350			3,200			150	-	500	3,600	43,250	1,000	70,150	19,739 1,130	27,000 1,500	1,114
-	30,835	13,000	15,000	54,000	3.000	5.700	200	9,200	1,000	-	-	23,000	1.000	10.800	166.735	47,810	1,500	47,477
-	148,645	- 13,000	15,000	54,000	3,000	5,700	200	9,200	1,000	-	1	23,000	1,000	10,000	148,645	145,731	145,000	144,765
-	140,043	_	-	-	_	-	-	-	-	-	1	_	_		140,043	145,751	143,000	144,703
-	_	_	_		_	_	_				1 - 1	_	_	]	1	_		
-	229,208	26,200	16,850	98,600	5.950	32,350	2.750	36,500	3,150	_	3.400	93,600	50.750	49,900	649,208	341,189	575,139	333,195
		,		,	0,000	,	_,	,	2,122		-,	,	,	,	0.0,200	,	,	,
-	578,562	65,511	54,788	21,011	90,073	24,697	10,188	3,412	-	-	-	122,884	3,508,976	136,680	4,616,783	4,667,252	4,603,000	4,571,072
			-															
	-	-	-	-	-	-	-	-	-	-	-	-	1,000,000		1,000,000	1,000,000	1,000,000	-
-	27,102	4,814	704	-	1,040	-	-	-	-	-	502	11,204	1,056		46,422	45,070	32,288	43,757
-	27,102	4,814	704	-	1,040	-	-	-	-	-	502	11,204	1,001,056	-	1,046,422	1,045,070	1,032,288	43,757
-	5,358,928	619,717	107,310	370,974	548,109	283,994	55,286	183,784	19,173	-	42,909	687,226	10,196,716	391,056	18,865,181	17,058,793	17,958,646	16,287,508
-	4.133.671	34,641	(54,844)	(274,384)	(108,169)	(129,872)	8,719	(86,871)	(4,330)		(42.820)	(321,652)	(1.987.734)	1.048	1.167.404	1,970,310	(666.210)	(608,064)
	-,,.00,071	J-1,041	(54,044)	(2.4,004)	(100,100)	(123,012)	0,713	(30,071)	(4,550)		(42,020)	(021,002)	(.,001,104)	1,040	.,.07,404	.,0.0,010	(000,210)	(550,004)
-	128.412	2,578	59.098	-	_	_	_	-	-	_	-	-	-	382	190,471	179.859	200.000	332.846
-	(72,134)	-	-	(6,250)	-	(57,507)	_	(1,675)	-	-	(14,835)	-	-	(29,594)	(181,995)	(195,887)	(803,082)	(213,115)
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15,000
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	56,278	2,578	59,098	(6,250)	-	(57,507)	-	(1,675)	-	-	(14,835)	-	-	(29,212)	8,475	(16,028)	(603,082)	134,731
		-		,		,												•
-	4,189,949	37,219	4,254	(280,634)	(108,169)	(187,379)	8,719	(88,546)	(4,330)	-	(57,655)	(321,652)	(1,987,734)	(28,163)	1,175,879	1,954,282	(1,269,292)	(473,333)

			C	ity Division							
	Undesignated	Int Serv	WFP	DIST	WWTP	WWCOLL	LAB	Budget	Tot Forecast	Budget	Actual
Operating Revenues:	400	490	491	492	493	494	495	2021	2020	2020	2019
User Charges											
Large Industrial	-	-	-	-	-	-	-	-	-	-	-
Other Industrial/Commercial	-	-	-	3,941,434	-	-	-	3,941,434	3,597,900	3,786,200	3,822,489
Residential	-	-	-	12,346,260	-	404.000	-	12,346,260	11,905,279	11,860,000	11,488,844
Penalties Private Fire Service	-	-	-	101,545 78,130	-	191,906	-	293,452 78,130	281,894 55,652	456,782 75,053	510,752 59,377
Public Fire Service	-	-	-	70,130	-	-	-	70,130	-	1,000	585
User Charges - Municipal	-	-	-	-	-	6,538,225	-	6,538,225	6,920,851	6,419,939	6,559,055
User Charges - Residential & Commercial	-	-	-	-	-	13,449,887	-	13,449,887	9,102,181	9,302,597	9,270,882
User Charges - Hauler	-	-	-	-	54,132	-	-	54,132	78,765	76,647	90,380
Hauler Fees Industrial Charges	-	-	-	-	-	-	-	-	-	-	-
Industrial Charges Industrial Pretreatment Revenues	-	-	-	-	82,014	-	-	82,014	97,656	95,615	127,183
Municipal	-	-	-	-	02,014	28,260	12,204	40,464	63,378	75,000	133,226
Leachate Program Revenues	-	-	-	-	582,828	,		582,828	681,679	1,040,598	1,050,769
Other Income	-	-	-	-	-	-	-	-	-	-	4,193
Other Water Sales	-	-	-	4,240,523	-	-	-	4,240,523	3,579,663	3,669,946	3,779,627
Provision for Doubtful Debts	_	-	-	- 00 707 000	740.071		40.001	44.047.010	(600,000)		(239,800)
Total Charges for Services	-	-	-	20,707,893	718,974	20,208,278	12,204	41,647,349	35,764,897	36,859,377	36,657,562
Rental Income	-	-	-	-	-	-	-	-	-	-	-
Miscellaneous	-	-	-	-	349,165	-	-	349,165	223,554	456,111	418,299
Total User Charges	-	-	-	20,707,893	1,068,139	20,208,278	12,204	41,996,514	35,988,451	37,315,488	37,075,861
Connection & System Charges											
Supply/Tapping Fees	-	_	-	22,342	_	_	-	22,342	3,579	18,500	21,462
Capital Cost Recovery	-	-	-	884,740	-	265,495	-	1,150,235	1,405,513	1,397,000	1,105,691
Distribution Tapping Fees	-	-	-	384,136	-	216,696	-	600,832	51,834	119,200	579,975
Meter Sales	-	-	-	23,387	-	-	-	23,387	39,787	292,000	22,466
Inspection & Review Fees Developer Reimbursement	2,110,000	-	-	17,806 7,336	-	13,763 2,279	-	31,569 2,119,615	39,345 895,199	180,100 2,315,000	30,326 418,075
Total Connection & System Charges	2,110,000			1,339,748	-	498,233	-	3,947,981	2,435,257	4,321,800	2,177,994
	, ,,,,,,							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			, , , , , ,
Other Miscellaneous Revenues											
Other Income Total Other Miscellaneous Revenues	-	-		48,026 48,026	-	-	11,222 11,222	59,249 59,249	56,915 56,915	35,000 35,000	59,659 59,659
Total Other Miscellaneous Revenues	-	-	-	40,020	-	-	11,222	59,249	30,913	35,000	59,659
Total Operating Revenues	2,110,000	-	-	22,095,667	1,068,139	20,706,511	23,427	46,003,744	38,480,623	41,672,288	39,313,514
Operating Expenses:											
Operating Expenses: Personnel											
Salaries and Wages	-	1,742,509	1,126,334	1,083,260	2,154,535	791,120	376,783	7,274,541	7,450,238	6,960,095	6,770,792
Overtime	-	9,366	284,511	124,254	400,266	46,975	10,688	876,060	718,269	653,671	690,010
Taxes	-	137,726	106,480	92,843	195,009	65,181	30,320	627,558	642,823	660,698	553,262
Fringe Benefits	-	688,402	455,400	397,072	834,019	278,766	129,676	2,783,335	3,334,212	2,509,645	3,373,868
Other Personnel Related	-		4 070 705	4 007 400	2 502 000	4 400 044		44 504 404	40 445 540	85,751	44 007 004
Total Personnel	-	2,578,004	1,972,725	1,697,428	3,583,829	1,182,041	547,467	11,561,494	12,145,543	10,869,860	11,387,931
Purchase of Services											
General & Administrative	-	(2,676,417)	960,179	837,199	1,757,284	587,759	273,413	1,739,417	1,488,173	1,648,481	1,810,565
Utilities	-	82,488	904,734	32,360	1,107,975	29,063	-	2,156,620	1,878,480	2,199,029	2,083,543
Compliance	-	15,925	-	0.500	-	400 400	18,598	34,523	-	-	-
Contract Operating Svcs Engineering	-	-	15,500	2,500	16,000	102,400	-	104,900 31,500	114,227 67,802	116,200 31,500	113,503 67,162
Extraordinary Expenditures	-	-	5,000	25,000	10,000	-	-	30,000	- 07,002	30,000	15,176
Exceptional Strength Analysis	-	_	-	-	-	-	-	-	-	-	-
Fleet Management Services	-	-	5,000	50,000	55,000	40,000	-	150,000	187,795	157,000	186,521
General Analyses	-	-	-	-	18,000	-	29,285	47,285	15,934	37,000	15,905
Industrial Meter Testing Maintenance Services	-	-	1,000	5,000	OEE 44.1	-	44.007	6,000	-	6,000	250
Miscellaneous Services	-	-	276,254 94,945	150,325 67,750	255,414 31,613	111,975 37,300	14,007 3,000	807,975 234,608	672,380 178,613	1,105,318 199,493	665,386 176,883
Rental	_	-	54,540	- 07,700	51,013	37,300	3,000	234,008	170,013	139,493	170,003
Residuals	-	-	22,000	-	344,580	-	-	366,580	297,804	374,580	295,039
Water Purchases	-	-	-	-	-	-	-		154	1,500	52
System Planning / Capital Management	-	-	-	-	-	-	-	-	-	-	-
LCA WWTP Treatment/Removals	-	-	-	-	-	-	-				
Treatment and Transportation Total Purchase of Services	-	(2 E79 004)	2,284,611	1 170 121	3,585,866	12,000 920,497	338,303	12,000 5,721,407	11,265 4,912,627	12,000 5,918,101	9,547
i Otal Fulcilase of Services	-	(2,578,004)	2,284,611	1,170,134	3,585,866	920,497	338,303	5,721,407	4,912,627	5,918,101	5,439,534

#### LEHIGH COUNTY AUTHORITY STATEMENTS OF ACTIVITIES - CITY - DIVISION FUND 2021 Budget and Comparative Prior Period Data

	City Division										
							Total				
	Undesignated	Int Serv	WFP	DIST	WWTP	WWCOLL	LAB	Budget	Forecast	Budget	Actual
	400	490	491	492	493	494	495	2021	2020	2020	2019
Materials & Supplies											
Purification Chemicals	_	_	321,600	_	460,835	_	_	782,435	534,112	743,354	530,450
Purification Supplies	_	_	14,000	_	-	_	_	14,000	12.467	14.000	12,330
Pump Supplies	_	_	28,250	_	25,000	_	-	53,250	29.049	53,750	28,880
Misc. Materials & Supplies	_	_	71,500	25,680	264,700	103,400	22,087	487,367	396,364	533,955	392,703
Fuel & Mileage	_	_	7.000	29,000	46,500	29,000		111,500	100,401	112,250	99,347
Fleet Management Supplies	_	_	2.000	3,000	5,000	4.000	-	14.000	34.821	29.100	16,054
Equipment	_	_	87,600	18,740	62,300	17,800	19,650	206,090	152,676	190,840	151,176
Leased Equipment	_	_	11,000	-	69,313	86,313	-	166.625	71,201	88,500	-
Distribution & Transmission Supplies	_	_		97.000	-	-	-	97.000	98,350	106,200	97,771
Collection System Supplies	-	-	-	-	-	-	-	-	-	-	
Total Materials & Supplies	-	-	542,950	173,420	933,648	240,513	41,737	1,932,267	1,429,441	1,871,949	1,328,712
Depreciation and Amortization	5,893,862	-	-	-	-	-	-	5,893,862	5,880,000	5,880,000	5,835,507
Other Expenses											
Major Maintenance Expenses	542,924	_	-	-	-	-	-	542,924	1,287,924	2,782,916	1,250,412
Other Miscellaneous	2,123,972	_	-	-	-	-	-	2,123,972	898,805		9,373
Total Other Expeses	2,666,896	-	-	-	-	-	-	2,666,896	2,186,729	2,782,916	1,259,785
Total Operating Expenses	8,560,758		4,800,286	3,040,983	8,103,342	2,343,050	927,507	27,775,926	26,554,340	27,322,826	25,251,468
Net Operating Profit (Loss)	(6,450,758)	-	(4,800,286)	19,054,684	(7,035,203)	18,363,461	(904,081)	18,227,817	11,926,283	14,349,462	14,062,046
Non-Operating Income (Expense)											
Investment Earnings	172,960	_	-	-	-	-	-	172,960	166,148	900,000	1,193,617
Interest (Expense)	(17,535,086)	_	-	-	-	-	-	(17,535,086)	(16,578,837)	(19,356,023)	(19,386,584)
Capital Contributed		_	-	-	-	-	-		-	-	- '
Other Miscellaneous	-	-	-	-	-	-	-	-	-	-	-
Net Non-Operating Income (Expense)	(17,362,125)	-	-	-	-	-	-	(17,362,125)	(16,412,689)	(18,456,023)	(18,192,967)
Net Income (Loss)	(23,812,883)	_	(4,800,286)	19,054,684	(7,035,203)	18,363,461	(904,081)	865,692	(4,486,406)	(4,106,561)	(4,130,921)



Lehigh County Authority's Internal Service budget serves as a pass-through mechanism to move shared expenses appropriately to the enterprise funds they support.

The Internal Services budget captures expenses in two different categories:

- 1. **Enterprise Fund Specific** Internal Service expenses that are specific to the Suburban or City Divisions are shared with those specific enterprise funds based on the services provided to each fund.
- 2. **Global (Organizational)** Internal Service expenses that are not specific to one of the Authority's enterprise funds, but which support the organization as a whole, are captured separately in the Global Internal Service budget and allocated to the funds based on a pro-rata share of salaries.

These Internal Service budgets capture expenses related to the following functions: Executive, Human Resources, Risk Management, Planning, Finance, Information Technology, Customer Care and Billing, Capital Works, and General and Administration. By showing these expenses separately, and broken out by function, it allows for increased transparency about the Authority's overhead expenses. The Internal Service expenses outlined in this section of the Authority's 2021 Budget are also captured within the enterprise fund budgets detailed in previous sections of this publication, allocated to those funds based on the methodology described above.

OPERATING FUNDS Operating Expenses: Personnel	488,613 2,416 38,661 295,774	1,186,017 143,598 103,047	Suburban Wastewater 3 583,075	City Internal Serice 490	City Division 4	Lab Compliance 495	Global 9	Budget 2021	Forecast 2020	Budget 2020	Actual 2019
Operating Expenses: Personnel Salaries and Wages Overtime	2,416 38,661 295,774	1,186,017 143,598			4	495	9	2021	2020	2020	2019
Personnel Salaries and Wages Overtime	2,416 38,661 295,774	143,598	583,075								
Salaries and Wages Overtime	2,416 38,661 295,774	143,598	583,075								
Overtime	2,416 38,661 295,774	143,598	303,013	591,812	5,155,249	376,783	1,643,853	10,025,402	9,550,639	9,620,060	9,139,597
	38,661 295,774		21,138	9,366	856,006	10,688	1,040,000	1,043,212	866,752	816,890	848,871
	295,774		47.552	47,233	459,512	30.320	129,276	855,601	820,597	871,239	744,022
Fringe Benefits	-	787,813	613,781	205,092	1,965,256	129,676	690,443	4,687,835	4,421,740	4,037,030	4,398,202
Other Personnel Related		-	-	-	-	-	-	-	-	116,274	-
Total Personnel	825,465	2,220,475	1,265,546	853,503	8,436,024	547,467	2,463,573	16,612,051	15,659,728	15,461,493	15,130,692
Purchase of Services											
	,310,663)	1,758,911	666,951	(1,813,702)	4,142,420	273,413	(3,717,331)	-	(394,475)	(950,321)	(703,050)
Temporary Contract Service		-	-		-	-			1,480		30,031
Office Related	60,805	-	-	92,167	-	-	154,218	307,189	287,698	275,136	244,703
Computer Software / Hardware Advertising	29,876	-	-	17,620 203	-	-	381,659	429,155	366,007	389,705	315,058 5,622
Advertising	101	-	-	203	-		811 53,040	1,116 53,040	1,094 52,000	2,750 52,000	51,941
Bank and Credit Card Fees	61,237	_	-	120,241	_	_	7,245	188,723	185,023	175,820	175,470
Dues and Subscriptions	2,105	_	_	6,314	-	_	42,096	50,515	49,525	48,000	43,485
Travel and Entertainmnet	789	-	-	482	-	-	5,610	6,881	6,203	11,775	13,449
Education & Training	26,693	-	-	67,415	-	-	106,638	200,745	44,547	187,525	106,612
	280,294	-	-	512,591	-	-	82,829	875,714	871,965	831,058	854,049
Human Resources and Related	-	-	-	-	-	-	110,850	110,850	74,526	177,000	70,402
Professional Consulting & Legal	8,636	-	-	115,721	-	-	55,710	180,067	243,885	354,255	509,097
Public Relations	14,609	-	-	27,392	-	-	107,449	149,449 321	79,943	180,049	96,060
Contributions & Sponsorships Activity Committee	54	-	-	54	-	-	214 4.800	4,800	315 545	3,000 4,800	349 4,631
Utilities		524.068	433,981		2,074,132	-	117,840	3,150,021	2,709,425	3,296,239	2,890,473
Compliance	_	45,191	10,950		-	18,598	22,750	97,489	81,247	74,564	61,477
Contract Operating Svcs		38,270	5,426,077	-	104,900	-	,	5,569,247	5,721,471	5,880,379	5,734,202
Engineering	-	55,000	67,000	-	31,500	-	-	153,500	226,912	140,500	207,986
Extraordinary Expenditures	-	-	-	-	30,000	-	-	30,000	-	30,000	15,176
Exceptional Strength Analysis	-	-	43,000	-	-	-	-	43,000	-	43,000	-
Fleet Management Services	-	28,000	16,000	-	150,000	-	-	194,000	257,922	199,500	221,096
General Analyses	-	72,636	52,800	-	18,000	29,285	-	172,721	106,446	173,656	91,668
Industrial Meter Testing	-	8,500	200 700	-	6,000	44.007	-	14,500	4 040 500	13,500	250
Maintenance Services Miscellaneous Services	-	414,853 25,025	389,700 100,225	-	793,968 231,608	14,007 3,000	-	1,612,528 359,858	1,016,533 319,647	1,836,421 376,193	1,409,001 315,995
Rental		20,023	100,223		201,000	5,000		333,030	313,047	73,748	77.286
Residuals	_	_	103,000	_	366,580	-	_	469,580	335,697	475,580	332,794
Water Purchases	-	2,824,400	-	-	-	-	-	2,824,400	1,990,415	2,150,900	1,977,802
System Planning / Capital Management	-	-	-	-	-	-	-	-	-	-	-
LCA WWTP Treatment/Removals	-	-	-	-	-	-	-	-	-	-	-
Treatment and Transportation	-	-	3,977,539	-	12,000	-	-	3,989,539	3,420,387	3,339,679	3,395,115
Total Purchase of Services	(825,465)	5,794,854	11,287,223	(853,503)	7,961,108	338,303	(2,463,573)	21,238,949	18,056,384	19,846,411	18,548,227
Materials & Supplies											
Purification Chemicals	-	58,400	86,900	-	782,435	-	-	927,735	632,961	891,604	628,533
Purification Supplies	-	56,047	-	-	14,000	-	-	70,047	48,510	74,000	47,817
Pump Supplies	-	46,000	46,500	-	53,250	-	-	145,750	89,180	135,750	82,957
Misc. Materials & Supplies	-	46,430	129,278	-	465,280	22,087	-	663,075	488,420	696,688	483,713
Fuel & Mileage	-	61,150	70,150	-	111,500	-	-	242,800	163,968	205,550	162,267
Fleet Management Supplies Equipment	-	3,800 117,815	1,000 166,735	-	14,000 186,440	19,650	-	18,800 490,640	40,970 272,179	33,100 478,240	19,203 269,242
Leased Equipment		46,000	148,645		166,625	19,030		361,270	216,932	279,500	144,765
Distribution & Transmission Supplies	_	111,940	- 10,010		97,000	_	_	208,940	227,014	215,660	225,317
Collection System Supplies		-	-	-	-	-	_	-		,	,
Total Materials & Supplies	-	547,582	649,208	-	1,890,530	41,737	-	3,129,057	2,180,134	3,010,092	2,063,814
Depreciation and Amortization	-	2,605,699	4,616,783	-	5,893,862	-	-	13,116,343	13,191,752	13,233,000	13,008,758
Other Expenses											
Major Maintenance Expenses	-	78,264	1,046,422	-	2,666,896	-	-	3,791,582	2,291,324	3,786,316	1,250,412
Other Miscellaneous	-	-	-	-	-	-	-	-	1,016,559	32,288	166,384
Total Other Expeses		78,264	1,046,422	-	2,666,896	-	-	3,791,582	3,307,883	3,818,604	1,416,796
Total Operating Expenses	0	11,246,874	18,865,181	(0)	26,848,420	927,507	-	57,887,982	52,395,881	55,369,600	50,168,287



#### **Suburban Water Division:**

The Suburban Water Division Capital Budget includes projects that provide or lead to long-term improvements and reliability to the system. The following table provides information regarding significant water projects:

Project	2021 Budget	2021 Project Stage
Fixed Base Advanced Metering Infrastructure	\$100,000	Design & Permitting
Central Lehigh to Upper Milford System Interconnection Pump Station (Kohler Tract)	200,000	Complete Construction
Upper Milford Central System Improvements - Buss Acres	850,000	Finish Construction
Adddition Redundant Supply – Madison Park North Water System	100,000	Design & Permitting
Arcadia West Water Tank Replacement	500,000	Finish Design / Start Construction

Annual Projects These projects are part of recurring annual capital work that includes the following: 1) new water main installations; 2) distribution main development and service connections; 3) distribution mains upsizing; 4) reservoir rehabilitation and maintenance; 5) general water system improvements; 6) water company acquisitions; 7) main office improvements; 8) mobile equipment; 9) water facilities asset management improvements; 10) other equipment; 11) capital management; and 12) capital works miscellaneous expenses. Includes staff and consultant work. (2021 Cap Ex \$1,960,000)

#### Water Main Replacement Projects

This is an on-going project to replace aging spun cast iron water mains in acquired water systems that have high break rates or exhibit a high risk of failure. The 2021 budget assumes a pause in the program and re-start in 2022. (2021 Cap Ex \$0)

#### <u>Upper Milford Central SystemImprovements – Buss Acres</u>

This multi-year project includes: (1) The abandonment of the two existing aged, problematic hydro-pneumatic operated well stations in need of electrical, structural and other repairs; (2) abandonments of the two pressurized 6,000 gallon water storage tanks at both facilities that have exceeded their useful life and are not in compliance with regulatory requirements for pressure vessels; and (3) the construction on the largest existing well station parcel of one new well/pump station (PS) and a water storage tank. The new PS will be a variable frequency drive-controlled double pumping system with full SCADA telemetry/control. In addition, given that the water supply has a high level of radon (currently there is no regulatory limit), provisions will be incorporated into the design to readily enable connection with radon mitigation equipment in the future pending establishment of a regulatory limit. Construction began in February 2020, with completion anticipated in Spring 2021. (2021 Cap Ex \$850,000)

#### Additional (Redundant) Water Supply - Small Satellite Systems (Madison Park North)

This project focuses on the development of an additional well for the Madison Park North (MPN) development to have a backup source of water supply. In 2020 a Pre-Drilling and Aquifer Test Plan was approved by DEP and wells were drilled and tested on two locations of a neighboring property to the development. Design and permitting will be completed in 2021. (2021 Cap Ex \$100,000)

#### **CLD Well Improvements**

Three large producing wells in the CLD system are not being used because of water quality issues. Well 3 has a capacity of 1000 GPM but has high levels of Manganese. Well 2 has a capacity of 200 GPM but must maintain a high chlorine residual to meet contact time. Well 12 has a capacity of 700 GPM but has high turbidity levels. An engineering study was performed in 2020 to determine the options and costs to bring the wells back in to service. The study will help to determine the value of having the wells as sources should DEP implement "use it or lose it" regulations on groundwater sources. The wells could be used as additional sources to supplement flow, pressure, and chlorine residuals should water demand increase in the western Lehigh service area. Additional options to treatment of Wells 3 and 12 are being evaluated to possibly restore partial capacity at a reduced cost. (2020 Cap Ex \$60,000)

#### CLD Distribution System Imiprovements

Engineering study to determine how to best provide service to existing and future customers and potential large users in the CLD system. Additional growth may require increasing well usage to provide chlorine residuals throughout the system and upsizing of water mains. Changes to the system may be required to accommodate the addition of a large water user or general development in the area. (2021 Cap Ex \$50,000)

#### Central Lehigh to Upper Milford System Interconnection (Kohler Tract)

This multi-year project consists of the design and construction of approximately 4,550 linear feet of 12-inch diameter main extending from the CLD to the proposed water mains in the Kohler Tract Subdivision in Upper Milford Township, and a new water booster pumping station located in Upper Milford Township near Indian Creek Road. Additionally, the pump station will be designed to supply both domestic demand and fire protection with the domestic capacity to serve 330 EDUs (residential properties) broken down as follows: 71 EDUs will be utilized for the existing customer properties in Upper Milford Township; 123 EDUs are dedicated for the Kohler Tract Development; and 136 EDUs are for future customers. Easements will be required for the pump station site and overland segments of the water main extension. The existing Upper Milford supply facilities will be abandoned. Design work was substantially completed in 2017, permitting and easement procurement were finalized in 2019, construction began in 2020, and the project is anticipated to be completed by early 2021,. (2021 Cap Ex \$200,000)

#### Arcadia West Water Storage Tank Replacement

The Arcadia West water storage tank has had several leaks in recent years and the coating has reached the end of its useful life. This project is for the replacement of the tank with a new concrete reservoir. Design phase authorization was awarded to Entech Engineering at the April 27, 2020 Board meeting. This project will be funded by the LCA Suburban Division. Design is underway and expected to be completed and ready for bid at the end of 2020. The DEP Public Water Supply Permit Application will be submitted in October. Design will be completed, the project will be bid and construction will begin in 2021. (2021Cap Ex \$500,000)

#### Fixed Base Advanced Metering Infrastructure

Development of a fixed base meter reading system for the Surburban Water Division. The new system will allow for more efficient meter reading, consistent billing and faster dispute resolution. Communication studies were performed by Sensus in 2019 and 2020 to evaluate the number and location of antenna towers for Suburban area coverage. Five to seven towers are anticipated in order to provide adequate coverage of the Surburban system. An Engineer will be retained in 2021 to prepare land development plans for the antenna sites. Construction of the towers will begin in 2021 and extend into future years. (2021 Capex Ex. \$100,000)

# **Suburban Wastewater Division:**

The major activities included in the Suburban Wastewater Division Capital Budget are continuation of the on-going work associated with WLI Signatory I/I Investigation & Remediation program and the implementation of improvements required to address system bottlenecks and sanitary sewer overflows. Other projects include starting design on the Trexlertown Area Storage Facility, and finishing construction of the Sand Spring wastewater treatment plant. The following table provides information regarding significant wastewater projects:

Project	2021 Budget	2021 Project Stage
Pre-Treatment Plant Improvements	\$700,000	Complete Construction
Central Lehigh County Wastewater Capacity	799,300	Planning
Planning & Expansion		
Sand Spring WWTP Replacement	500,000	Complete Construction
Heidelberg Heights I/I Remediation & Replacement	300,000	Complete Construction
Park Pump Station Improvements	100,000	Design & Permitting
Park Pump Station Force Main Rehabilitation	100,000	Design
Signatory I/I Investigation & Remediation Program	270,000	Design & Construction
Trexlertown Area Storage Facility	200,000	Design & Permitting

Annual Projects These projects are part of recurring annual capital work that includes the following: 1) mobile equipment; 2) sewer company acquisitions; 3) other equipment; 4) wastewater facility asset management mechanical upgrade work; 5) capital management; 6) sewer main connections; and 7) general sewer system improvements. (2021 Cap Ex. \$622,500)

### Wastewater Pre-Treatment Plant - General Improvements

This is an on-going multi-year program to upgrade/replace equipment and optimize processes in accordance with asset management protocol to address the continued reliability and maintain a high level of service for LCA's industrial pre-treatment plant. (2021 Cap Ex \$700,000)

## Central Lehigh County Wastewater Capacity Planning & Expansion

This project is for the planning of additional treatment capacity for the Western Lehigh Interceptor (WLI) service area and construction of the selected alternative. This project is needed for future wastewater treatment capacity and includes two primary engineering alternatives: expanding the Kline's Island Wastewater Treatment Plant (KIWWTP) permitted capacity from 40 to approxixmately 44 MGD, or upgrading the LCA Pre-Treatment Plant to full treatment with discharge to the Lehigh River. This 2021 project only includes planning costs for these activities.. (2021 Cap Ex. \$799,300)

### Signatory I/I Investigation & Remediation Program

This multiyear on-going inflow and infiltration (I/I) reduction project was primarily composed of flow monitoring in LCA and Signatory sewage collection systems tributary to the Western Lehigh Interceptor (WLI). Level of Service Modeling, Flow Metering, recalibration of the 2014 KISS model, and many other tasks are required and in progress for determining and prioritizing the physical work necessary to facilitate the removal of excess wet weather flow in segments of systems have been identified with unacceptable levels of I/I. The 2020 budget included flow metering within the Western Lehigh Sewer Partners (approximately 35 meters). As the Regional Act 537 Plan is now underway, the 2021 budget continues to

includes manhole rehabilitation and corrective work to eliminate I/I in the WLI. All planning related to the Regional Act 537 is included in the project listed above. (2021 Cap Ex \$270,000)

### WLI - T rexlertown Area Storage Facility

A conveyance capacity "bottleneck" has been identified in the Trexlertown area of the Western Lehigh Interceptor, and this area was assigned a high priority due to occurrence of sanitary sewer overflows and basement backups in the vicinity during wet weather events. A parallel interceptor was originally conceived to run approximately from Cetronia Rd to Spring Creek Rd. The concept was modified to focus on providing storage capacity in the system for this area, due to concerns about downstream hydraulic impacts. This project is an interim solution to address local impacts of the system bottleneck, and will become part of the future long-term solution to alleviate regional conveyance capacity challenges. A predesign feasibility study is being performed to evaluate various engineering alternatives, including an "inline" parallel storage tank, conventional concrete tank (flow equalization basin), or other options and will be completed once expanded modeling work, reevaluation of downstream impacts, and storm design parameters have been finalized. (2021 Cap Ex \$200,000)

## Park Pump Station Force Main Rehabilitation

This multi-year project will address the internal rehabilitation needs as determined from an upcoming internal condition assessment of the existing Park Pump Station Force Main. The existing concrete pipe construction is susceptible to deterioration from corrosive sewer gases, therefore, an internal inspection of the force main will be conducted in late 2020 and the results of the inspection will determine the scope of rehabilitation work, which will be designed in 2021, and may consist of internal lining technology and/or dig-up repairs. (2021 Cap Ex \$100,000)

## Wynnewood Terrace Sanitary Sewer System I/I Investigation and Remediation Program

This multi-year project includes flow metering, inspecting manholes, televising sewer mains and laterals, test and seal work and replacement of targeted sections of damaged sewer main. Dig up repairs were completed in 2020, and the 2021 work will involve CCTV inspection work and updated needs assessment. (2021 Cap Ex \$25,000)

## Sand Spring WWTP Remediation & Replacement

This multi-year project will replace the aged 35 year old 35,000 GPD steel tank wastewater treatment plant, which was developer-built and is at the end of its useful service life, as determined by an engineering condition assessment/feasibility study. Mechanical equipment and structures display a high risk of failure, and the facility requires complete replacement. The new facility will feature a concrete tank sequencing batch reactor process, with UV disinfection and a tertiary filter to meet new NPDES permit discharge criteria and provide a high level of service. Construction phase commenced in late 2019 and is anticipated to finish in early 2021. (2021 Cap Ex \$500,000)

# Heidelberg Heights I/I Investigation and Remediation Program

This multi-year project involves investigation and remediation of damaged and deteriorating sewer lines in the developer-built sanitary sewer system, which allow for wet weather inflow and infiltration, and creates hydraulic overload conditions at the system's wastewater treatment plant. Work includes the replacement of all sections of old VCP sewer main pipe and VCP sewer laterals in accordance with the Corrective Action Plan submitted to DEP in 2019. The 2021 work will involve replacement of approximately 1,000 feet of sewer main and connecting laterals. (2021 Cap Ex \$300,000)

### Heidelberg Heights WWTP Rehabilitation

This multi-year project will provide needed upgrades to the existing steel tank wastewater treatment plant. Future projects include installation of a new catwalk grating system over the SBR tanks to improve maintenance access, and installation of a mechanical screen at the headworks of the plant. 2021 work will focus on preliminary design of a mechanical screen for removal of bulky inorganic from the raw sewage. (2021 Cap Ex \$40,000)

## Lynn Township WWTP Upgrades & Expansion

This multi-year project is being executed in two phases. Phase 1 included influent chamber modifications, new mechanical screen, and valve chamber with flowmeter and chemical feed system that was completed in 2018. Phase 2 is the expansion of the WWTP capacity from 80,000 GPD to around 160,000 GPD (expanded capacity determination pending township completion of updated Act 537 Plan, as required by DEP). Timing for the construction of the WWTP expansion will be dependent upon I/I remediation efforts and growth demands in the sewer service area. Preliminary Design for the Phase 2 work will start in 2021. (2021 Cap Ex \$50,000)

### Lynn Township I/I Investigation & Remediation Program

This multi-year project is in progress and includes a flow metering study, easement clearing/stabilization, updated system condition assessment via updated system-wide CCTV inspection, updated manhole inspection, data review and prioritization of repair/rehabilitation work, internally-performed isolated repairs, and capital project construction of system-wide rehabilitation project. The program is part of a DEP-mandated Corrective Action Plan, intended to remove hydraulic overloads at the WWTP due to excess wet weather inflow and infiltration. 2020 work consisted of a comprehensive manhole rehabilitation project. 2021 work is anticipated to include private side sewer system inspection. (2021 Cap Ex \$50,000)

## Regional Park Pump Station

This multi-year project is the result of continued regional sewer studies performed by Arcadis for the Western Lehigh Interceptor signatories. Based on a 20-year planning window, it was determined that a conveyance capacity of 45 mgd will be required at the Park Pump Station. The recommended alternative for providing this significant additional capacity is the construction of a "Sister Station" in proximity to the Park Pump Station. Construction work is not anticipated within the next 5 years. (2021 Cap Ex \$0)

#### Park Pump Station Rehabilitation & Improvements

Phase 1 of this multi-year project included replacement of the existing pumps, pump speed controllers (replace with variable frequency drives), motor control center (MCC) panel, SCADA system, HVAC system, level control system, discharge surge valve and related mechanical improvements to maintain the level of service, prolong station life and restore station to its design capacity. Also included were roof replacement, electrical service upgrade and miscellaneous structural improvements, the majority of which were outlined in Option 3 of the 2016 Park Pump Station Evaluation Technical Memorandum prepared by Arcadis. Construction work for Phase 1 was completed in 2020. Phase 2 is to consist of the installation of a new generator and associated equipment, and will commence design phase in 2021. (2021 Cap Ex \$100,000)

SSES (Weisenberg, UMiT, Lowhill)

This project involves a Sanitary Sewer Evaluation Study for the LCA Owned Interceptor Systems in Weisenberg, UMiT, and Lowhill Townships. Survey is anticipated to commence in 2021. (2021 Cap Ex \$75,000)

# **City Division: Water System:**

Water projects in the 2021 Budget focus on regulatory compliance, immediate and future needs at the Water Filtration Plant (WFP) and addressing the Lease operating standards. Annual projects remain in the 2021 budget as well. These include but are not limited to equipment purchases, general water system replacements, general WFP improvements, and indenture report upgrades.

The projects identified in the water Budget fall into to two primary categories: those funded by LCA Allentown Division (LCA-AD) and those funded by the City, with the latter pertaining to Uncompleted Work (UW).

Uncompleted Work Projects (UW): Are projects that were the City's responsibility to fund and complete prior to the closing of the Concession Lease. The City has requested that LCA execute these projects. Funding will be provided by the City. The following table provides information regarding significant water projects:

Project	2021 Budget	2021 Project Stage
Annual Water Main Replacement – Cycle 5	\$1,900,000	Complete Construction
WFP High Service VFD Replacement Project	800,000	Start Construction
Itron/AMR Meter Project	85,000	Complete

### **Annual Projects**

This annual project includes general water system replacements, mobile equipment, new & replacement meter installations, other equipment, Water Filtration Plant general improvements. Also included is a portion of the Administration Capital Expenses that directly benefit the Allentown Division. (2021 Cap Ex \$1,590,000)

# <u>Annual Water Main Replacement – Cycle 5</u>

The annual replacement of one mile of water main is a lease requirement, with the objective of replacing I aging spun cast and pit cast iron pipe in the system. Annual project scope is prioritized based on break and leak history. (2021 Cap Ex \$1,900,000)

# WFP High Service VFD Replacement Project

This multi-year project is to replace variable frequency drives (VFDs) for the high service pumps in the water treatment plant. The high service pumps supply finished water to the City distribution system and are critical infrastructure. The high service pump station has a history of electrical failures from aging VFDs and the upgrade work with extend the reliability and service life of the station. (2021 Cap Ex \$800,000)

### Itron/AMR Meter Project

This multi-year project completes the remaining work of the City's AMR project (the installation of 747 meters were not completed because the sites were either vacant or not accessible). This project also includes the purchase and implementation of Water Analytics software package to a repository to store data gathered from the meters in the division for use in identifying customer metering issues. (2021 Cap Ex \$85,000) **Uncompleted Work, City Funded.** 

## **City Division: Wastewater System:**

Wastewater projects in 2021 will focus on regulatory compliance, immediate and future needs at the Wastewater Treatment Plant (WWTP) and addressing the Lease operating standards. Project at the WWTP includes the conversion of the existing chlorine disinfection system to sodium hypochlorite. Funding is also provided for the replacement and/or rehabilitation of defective sewer mains.

Project	2021 Budget	2021 Project Stage
Boiler Replacement & Solids Process HVAC	\$200,000	Design & Permitting
Upgrade Project		
Regional Flow Management Strategy	775,000	Planning
Flow Characterization Study	1,250,000	Planning

### **Annual Projects**

These annual projects include mobile equipment, other equipment, sanitary sewer main replacements and rehabilitation, indenture report upgrades, and Wastewater Treatment Plant general improvements. Included within general improvements is the multi-year Sodium Hypochlorite Conversion Project (non-CCRC project). Also included is a portion of the Administration Capital Expenses that directly benefit the Allentown Division. (2020 Cap Ex \$1,960,000)

### Boiler Replacement and Solids Process HVAC Upgrade Project

In 2021 the detailed design phase of the Boiler Replacement and Solids Process HVAC Upgrade Project will be completed. This multi-year project consists of replacement of the 3 boilers used to heat the digesters, the digester building, and sludge dewatering areas. The project scope also includes replacement of related HVAC equipment in the digester building and sludge dewatering areas. A preliminary engineering study with basis of design is being completed in 2020 to facilitate Major Capital Improvement project approval from the City in late 2020. (2021 Cap Ex \$200,000)

### Regional Flow Management Strategy

This multi-year project involves a five-year "Inflow and Infiltration Source Reduction" effort to comply with a regional flow management strategy submitted to EPA in August of 2018. 2021 includes "Year 2" construction efforts. (2021 Cap Ex \$775,000)

# Flow Characterization Study

This project was a requirement of the prior Administrative Order (AO) and is now a requirement of the recently submitted Interim Act 537 Plan. Approximately 105 meters (80 or so of which will be temporary) will be utilized to characterize the dry day, wet day, and peak flows throughout the entire KISS collection system. Also included in this project is a thorough QA/QC of the meter data. Upon collection of the data, the development of an updated regional sanitary sewer model will begin. (2021 Cap Ex \$1,250,000).

# 2021 BUDGET SUBURBAN DIVISION WATER FUND CAPITAL EXPENDITURES

	Primary Project	Estimated Project	Estimated Costs	2021 Budget	Estimated Costs	
Project	Category	Cost	Through 2020		2022 - 2026	
LCA Funded Projects						
Annual Projects	AM - Varies	\$ 10,541,521	1,126,021	\$ 1,747,500	7,668,000	
Water Main Replacement Projects	AM - Varies	\$ 9,600,000	-	-	9,600,000	
New Borrowing Funded Projects						
Upper Milford Central Div. Improvements - Buss Ac	AM-High	\$ 2,190,000	1,340,000	850,000	-	
Additional (Redundant) Water Supply - Small Satellite Divisions	Sys Imp	\$ 715,000	265,000	100,000	350,000	
CLD Auxiliary Pump Station & Main Extension	Sys Imp	\$ 1,700,000	1,700,000	-	-	
Fixed Base Metering Reading System	Sys Imp	\$ 740,000	40,000	100,000	600,000	
North Whitehall Division System Improvements - Study Phase	Sys Imp	\$ 100,000	-	50,000	50,000	
Arcadia Water Tank Replacement	AM-High	\$ 1,107,000	107,000	500,000	500,000	
Water Meter Reading Equipment Upgrade	AM-Med	\$ -	870,000	100,000	-	
Central Lehigh to Upper Milford Division Interconnection - Kohler Tract	New Cust	\$ -	-	200,000	-	
CLD Well Improvements - Study Phase	Sys Imp	\$ 40,000	30,000	60,000	40,000	
CLD Distribution System Improvements	Sys Imp	\$ 1,530,000	480,000	50,000	1,000,000	
		\$ -				
		\$ -				
Admin Allocation				432,500		
Total Suburban Division Water Capital Expenditures (Funded):			\$ 5,958,021	\$ 4,190,000	\$ 19,808,000	

# 2021 BUDGET SUBURBAN DIVISION WASTEWATER FUND CAPITAL EXPENDITURES

	Primary Estimated Estimated Project Project Costs		Costs	2021 Budget	Estimated Costs
Project	Category	Cost	Through 2020		2022 - 2026
OPERATING/CAPITAL RESERVE FUNDS					
General:	AAA \/: (	0.400.445	Ф 400 44E Ф	000 500	¢ 0,000,500
Annual Projects Subtotal	AM - Varies	3,106,145	\$ 483,145 \$ 483,145	- ,	\$ 2,000,500
			483,145	622,500	2,000,500
LCA Wastewater Treatment Plant	AAA \/==:	4 000 000		700 000	2 500 000
Pretreatment Plant Improvements	AM - Varies	4,200,000	-	700,000	3,500,000
Subtotal			-	700,000	3,500,000
Western Lehigh Interceptor System:	Name Orest	0.040.000	000 000	700 000	4 000 000
Central Lehigh County WW Capacity Planning & Expansion	New Cust	3,219,300	620,000	799,300	1,800,000
Spring Creek Force Main A/V Valve Replacements	Sys Imp	95,000	25,000	40,000	30,000
Spring Creek Force Main Condition Assessment	AM-Med		0.45.000	-	300,000
Subtotal			645,000	839,300	2,130,000
Satellite Systems	D 1.	000 000	05.000	05.000	450,000
Wynnewood I/I Investigation and Remediation Program	Regulatory	200,000	25,000	25,000	150,000
Wynnewood Terrace WWTP Remediation & Replacement	AM - High	3,300,000	3,300,000	-	-
Arcadia West WWTP Mechanical Screen	Efficiency	325,000	-	-	325,000
SSES (Weisenberg, UMiT, Lowhill)	Regulatory	375,000	75,000	75,000	225,000
Sand Spring WWTP Remediation & Replacement	AM - High	4,100,000	3,600,000	500,000	
Heidelberg Heights I/I Investigation and Remediation Program	Regulatory	1,300,000	300,000	300,000	700,000
Heidelberg Heights WWTP Rehabilitation	AM - Med	360,000	20,000	40,000	300,000
Lynn Township WWTP Improvements & Expansion	Sys Imp	300,000	-	50,000	250,000
Lynn Township I/I Investigation and Remediation Program	Regulatory	300,000	50,000	50,000	200,000
Subtotal			7,370,000	1,040,000	2,150,000
Little Lehigh Relief Interceptor System:					
Park Pump Station Force Main Rehabilitation	AM - High	1,300,000		100,000	1,200,000
Park Pump Station Rehabilitation/Improvements	AM - High	1,080,000	20,000	100,000	960,000
Regional Park Pump Station	Sys Imp	170,000	20,000	50,000	100,000
Subtotal			40,000	250,000	2,260,000
SUBTOTAL OPERATING/CAPITAL RESERVE FUNDS					
NEW BORROWING FUNDS					
Western Lehigh Interceptor System:					
Signatory I/I Investigation & Remediation Program	Regulatory	1,570,000	300,000	270,000	1,000,000
WLI-Trexlertown Area Storage Facility	Regulatory	12,300,000	100,000	200,000	12,000,000
Subtotal		_	400,000	470,000	13,000,000
Total Suburban Wastewater Division Capital Expenditures (Funded):			\$ 8,938,145 \$	3,921,800	\$ 25,040,500

# 2021 BUDGET CITY DIVISION WATER FUND CAPITAL EXPENDITURES

Project	Primary Project Category	Estimated Project Cost	Estimated Costs Through 2020	2021 Budget	Estimated Costs 2022 - 2026
•	<u> </u>				
LCA Funded Projects					
Annual Projects	AM - Varies	10,822,500	-	1,590,000	9,232,500
Various Water System Related Studies	CA/OS	150,000	-	-	150,000
Sub-total Allentown Division Water Capital Funded by LCA		10,972,500	-	1,590,000	9,382,500
CCRC Projects					
Annual Water Main Replacements	AM - High	11,400,000	-	1,900,000	9,500,000
High Service Pump VFD Replacement Project	AM - High	2,000,000		800,000	1,200,000
Sub-total Allentown Division Water CCRC		13,400,000	-	2,700,000	10,700,000
City Funded Projects					-
Itron/AMR Meter Project (1)	CA/OS	85,000	-	85,000	-
Sub-total Allentown Division Water Capital Funded by the City			-	85,000	-
Administration Fund Capital Allocation				317,500	1,270,000
Total Allentown Division Water Capital Expenditures (Funded):		•	\$ - :	\$ 4,692,500	\$ 10,652,500

<sup>(1) &</sup>quot;Uncompleted Work" City Projects that were supposed to be complete by the time of settlement or executed by City personnel after settlement. The City will fund these projects but has requested that LCA execute them.

# 2021 BUDGET CITY DIVISION WASTEWATER SYSTEM CAPITAL EXPENDITURES

Project	Primary Project Category	Estimated Project Cost	Estima Cost Through	s	2021 Budget	Estimated Costs 2022 - 2026
LCA Funded Projects						
Annual Projects *	AM - High	9,460,00	00	-	1,960,000	7,500,000
Various Wastewater System Related Studies	CA/OS	150,00		-	-	150,000
Sub-total Allentown Division Wastewater Capital Funded by LCA			\$	- \$	1,960,000	\$ 7,650,000
CCRC Projects						
Boiler Replacement and Solids Process HVAC Upgrade Project	AM - High	1,400,00	00	-	200,000	1,200,000
Sub-total Allentown Division Wastewater CCRC		\$ 1,400,00	00	\$	200,000	\$ 1,200,000
City Funded Projects						
Regional Flow Management Strategy (1)	Regulatory	3,145,00	00	-	775,000	1,580,000
Flow Characterization Study (1)	Regulatory	1,600,00	00	-	1,250,000	350,000
Sub-total Allentown Division Wastewater Capital Funded by the City			\$	- \$	2,025,000	\$ 1,930,000
Total Allentown Division Wastewater Capital Expenditures (Funded):			\$	- \$	4,185,000	\$ 9,580,000

<sup>\*</sup> Includes Sodium Hypo project in 2021

<sup>(1) &</sup>quot;Administrative Order" Projects as per the Agreement are to be Funded by the City and executed by LCA.

# 2021 BUDGET ADMINISTRATION CAPITAL EXPENDITURES

Project	Primary Project Category	Estimated Project Cost	Estimated Costs Through 2019	2021 Budget	Estimated Costs 2022 - 2026
LCA Funded Projects					
SCADA Programming, Hardware Upgrades, Software & Training	AM - Varies	178,000	28,000	150,000	-
Computer System Hardware & Software Upgrades	AM - High	142,000	42,000	100,000	-
GIS Upgrades & Application Development	Efficiency	81,960	31,960	50,000	-
Information Technology Master Plan Update	Planning	145,000	20,000	125,000	-
Document Management	Efficiency	200,000	-	200,000	-
Disaster Recovery/Security Upgrades	Efficiency	25,000	-	25,000	-
CMMS Upgrades	Efficiency	121,900	21,900	100,000	-
Sub-total Administration Capital Funded by LCA			\$ 143,860	\$ 750,000	\$ -
Total Administration Capital Expenditures (Funded):		•	\$ 143,860	\$ 750,000	\$ -

# LEHIGH COUNTY AUTHORITY CAPITAL EXPENDITURES - SUBURBAN - WATER FUND 2021 Budget and Comparative Prior Period Data

Γ							Suburban - Water	r Systems									
			Western	Lehigh Service	e Area	S. Lehigh		N	orthern Lehig	h Service Area		Northamptor	n		Tot	al	
	Int Serv	Undesignated	Central Lehigh	Arcadia West	Emmaus	Beverly Hills	lorth Whiteha Wa	shington	Mill Creek	Heidelberg	PL of Lynn Madison North	CFE	<b>Buss Acres</b>	Budget	Forecast	Budget	Actual
	100	200	201	211	209	207	202	203	204	205	206 221	208	210	2021	2020	2020	2019
CAPITAL WATER RESERVE FUNDS																	
Annual Projects																	
Capital Management	-	50,000	-	-	-	-	-	-	-	-		-	-	50,000	14,305	50,000	24,287
Capital Works Misc Expense	-	7,500	-	-	-	-	-	_	-	-		-	-	7,500	974	7,500	1,622
Distribution Mains - Development	-	200,000	-	-	-	-	-	-	-	-		-	-	200,000	253,115	200,000	426,326
Distribution Mains - Upsizing	-	180,000	-	-	-	-	-	-	-	-		-	-	180,000	23,728	45,000	270,859
Distribution System Improvements (3rd Party)	-	5,000	-	-	_	-	-	-	-	-		-	-	5,000		5,000	
General Water System Replacements	-	250,000	-	-	-	-	-	-	-	-		-	-	250,000	17,295	250,000	276,695
Main Office Improvements	-	180,000	-	-	-	-	-	-	-	-		-	-	180,000	-	180,000	-
Mobile Equipment	-	-	-	-	-	-	-	-	-	-		-	-	-	-	60,000	31,075
New & Replacement Meter Installations	-	50,000	-	-	-	-	-	-	-	-		-	-	50,000	24,704	50,000	42,605
Other Equipment	-	200,000	-	-	-	-	-	-	-	-		-	-	200,000	170,461	200,000	193,964
Reservoir Rehab/Maintenance	-	320,000	-	-	-	-	-	-	-	-		-	- L	320,000	12,603	320,000	154,081
Water Company Acquisitions	-	5,000	-	-	-	-	-	-	-	-		-	-	5,000		5,000	
Water Condition Facility Assessments/Upgrades	-	300,000	-	-	-	-	-	-	-	-		-		300,000	22,638	300,000	348,825
	-	1,747,500	-	-	-	-	-	-	-	-		-	-	1,747,500	539,824	1,672,500	1,770,338
Multi Year Projects																	
Additional (Redundant) Water Supply - Small Satellite Div	_	100,000	-	-	_	-	-	_	-	_		_	-	100,000	69,859	300,000	68,856
Arcadia Water Tank Replacement	_	-	-	500.000	_	-	-	_	-	_		_	-	500,000	41,614	100,000	-
AWIA ACT - 2020	_	-	-	-	_	-	-	-	-	_	_	_	-	-	88	-	-
Central Lehigh to Upper Milford Division Interconnection	_	-	200,000	-	_	-	-	_	-	_		_	-	200,000	1,337,992	1,320,000	-
CLD Auxiliary Pump Station & Main Extension	_	-	_	_	_	_	_	_	_	_		_	-	_	88,303	200,000	1,437,085
CLD Distribution System Improvements	_	-	50.000	_	_	_	_	_	_	_		_	-	50.000	75,788	60,000	-
CLD Well Improvements - Study Phase	_	-	60,000	_	_	_	_	_	_	_		_	-	60,000	25,150	60,000	24,341
Fixed Base Metering Reading System	_	100,000	_	_	_	_	_	_	_	_		_	-	100,000	8,859	50,000	-
North Whitehall Division System Improvements - Study P	_	_	_	_	_	_	50,000	_	_	_		_	-	50,000	-	50,000	_
Residential Svc Conn & Water Svc Inquiry	_	-	_	_	_	_	_	_	_	_		_	-	_	7,145	-	4,524
Upper Milford Central Div. Improvements - Buss Ac	_	-	_	_	_	_	_	_	_	_		_	850,000	850,000	698,909	2,300,000	101,897
Upper Sys Evalua #30711 / Lower Sys Model #30717	_	-	_	_	_	_	_	_	_	_		_	-	-	14,277	_,	49,762
Water Main Replacement Projects	_	-	_	_	_	_	_	_	_	_		_	-	_		_	2,043,432
Water Meter Reading Equipment Upgrade	_	_	100,000	_	_	_		_	_	_		_		100,000	542,764	1,500,000	2,578,724
Watershed Monitoring	_	_	-	_	_	l .	_	_	_	_		_	_	-	1.007	-,000,000	1,623
· · · · · · · · · · · · · · · · · · ·	-	200,000	410,000	500,000		-	50,000	-	-	-		-	850,000	2,010,000	2,911,755	5,940,000	6,310,244
Administrative Projects		1	-,	,		1											
Accounting Area Renovation	-	- 1	-	-	-	-	-	-	-	-		-		-	1,266	-	26,379
CMMS Upgrades	-	57,667	-	-	-	-	-	-	-	-		-		57,667	4,265	53,000	97,426
Computer System Hardware & Software Upgrades	-	57,667	-	-	-	-	-	-	-	-		-		57,667	4,632	53,000	68,892
COVID 19	_		-	-	_	-	-	-	-	_	_	_	-	_	716,060	-	-
Disaster Recovery/Security Upgrades	_	14,417	-	-	_	-	-	_	-	_		_	-	14.417	9.048	13,250	88,629
Document Management	_	115,333	-	-	_	-	-	_	-	_		_	-	115,333	13.086	106,000	5.863
GIS Upgrades & Application Development	_	28,833	-	_			-	_	-	_		_		28,833	22,652	26,500	94.323
Information Technology Master Plan Update	_	72,083	-	_			-	_	-	_		_	1 - J	72,083	54,037	66,250	33,610
Operations Center Improvements	_	_,	-	-		-	_	-	-	_		_			9,116		154,775
SCADA Programming, Hardware Upgrades, Software & T	_	86,500	_	_		-	_	_	_	_			1 - l	86,500	35,535	79,500	114,478
5,	-	432,500	-	-	-	i -	-	_	_	-		-	<u> </u>	432,500	869,697	397,500	684,373
		,				1								,	,	,-50	,
Total Capital Water Reserve Fund	-	2.380.000	410.000	500.000		-	50.000		_	-		-	850,000	4.190.000	4.321.275	8.010.000	8.764.955
		_,000,000		000,000		-	, 00,000						, 000,000	-1,.00,000	.,02.,2.0	-,0.0,000	-,, 0 -,000

# LEHIGH COUNTY AUTHORITY CAPITAL EXPENDITURES - SUBURBAN - WASTEWATER FUND 2021 Budget and Comparative Prior Period Data

Int Serv   MLI   LER1   LLR1					1 1			,		
100 312 313 314 305 315 316 317 319 323 318 303 322	Suburban - Wastewater Systems  Interceptor Group CRCS W.Weisenberg									
CAPITAL WASTEWATER RESERVE FUNDS   Annual Problets	LLRI 1 LLRI 2 Heidelberg Upper Milford Wynnewood Weisenberg Sand Spring Lowhill Twp. NLSA Washington Lynn Twp. WWTP Arcadia West									
Annual Protects   General Saver System Improvements*	320	322	320	311	2021	2020	2020	2019		
Central Sewer System Improvements*										
Left Coll Sys Development & Svc Connections   18,000   180,000								ļ		
Mobile Equipment   180,000	200,000	-	200,000	-	200,000	-	-	192,434		
Company Acquisitions		-	-	-	5,000	-	-	_ !		
Lymn Township Coll Sys Development & Svc Connections		-	-	-	180,000	45,000	-	_ !		
Sewer Company Acquisitions		-	-	-	200,000	25,590	200,000	232,735		
Upper Millford Coll Sys Development & Svc Connections		-	-	-	-	-	3,000	_ !		
Wil Capital Management         7,500		-	-	-	5,000	-	-	_ !		
WIL Coll Sys Development & Svc Connections   5,000		-	-	-	10,000	6,924	10,000	_ !		
WLI High Flow Emergency Response		-	-	-	7,500	8,528	7,500	11,049		
WLI High Flow Emergency Response		-	-	-	5,000	-	-	_ !		
392,500   5,000   10,000   5,000   5,000   5,000     5,000     5,000     5,000     5,000     5,000     5,000     5,000     5,000     5,000     5,000     5,000     5,000   5,000     5,0		-	-	-	-	1,932	-	1,927,364		
Multi Year Projects   537 CRB Tool   10,000   10,000   5,000   10,000	10,000	-	10,000	-	10,000	-	100,000			
S37 CRB Tool   Arcadia West WWTP Mechanical Screen   Central Lehigh County WW Capacity Planning & Expansic   799,300	210,000	-	210,000	-	622,500	87,974	320,500	2,363,582		
Arcadia West WWTP Mechanical Screen Central Lehigh County WW Capacity Planning & Expansic Chestmut St Bridge Replacement Heidelberg Heights II Investigation and Remediation Prof Heidelberg Heights WWTP Rehabilitation Hydraulic Model WLSP Lynn Township II Investigation and Remediation Progran Park Pump Station Cond. Assesm Park Pump Station Force Main Rehabilitation Park Pump Station Force Main Condition Replacement Signatory II Investigation & Remediation Program Signatory II Investigation & Remediation Program Spring Creek Force Main Condition Assessment Spring Creek Force Ma					•					
Central Lehigh Country WW Capacity Planning & Expansic Chestmut St Bridge Replacement Heidelberg Heights I/I Investigation and Remediation Prof Heidelberg Heights I/I Investigation and Remediation Prof Heidelberg Heights WMTP Rehabilitation Hydraulic Model WLSP Lynn Township I/I Investigation and Remediation Progran Lynn Township WITP Improvements & Expansion Park Pump Station Cond. Assessm Park Pump Station Force Main Rehabilitation Park Pump Station Force Main Rehabilitation Park Pump Station Repediation/Improvements Plan Review & Inspection, Development & Svc Connectio Pretreatment Plant Improvements Regional Park Pump Station Sand Spring WWTP Remediation & Spring Creek Force Main A/V Alve Replacement Spring Creek Force Main Condition Assessment Spring Creek Force Main Con		-	_	-	_	26,527	-	_ !		
Chestnut St Bridge Replacement Heidelberg Heights WIT Investigation and Remediation Prot Heidelberg Heights WWTP Rehabilitation Hydraulic Model WLSP Lynn Township WI Investigation and Remediation Program Lynn Township WIT Improvements & Expansion Park Pump Station Cond. Assesm Park Pump Station Force Main Rehabilitation Park Pump Station Force Main Rehabilitation Park Pump Station Rehabilitation Park Pump Station Rehabilitation/Improvements Park Pump Station Rehabilitation/Impr		-	-	-	-	-	-	_ !		
Chestnut St Bridge Replacement Heidelberg Heights I/I Investigation and Remediation Pro Heidelberg Heights WWTP Rehabilitation Hydraulic Model WLSP Lynn Township I/I Investigation and Remediation Progran Lynn Township WWTP Improvements & Expansion Park Pump Station Cond. Assessm Park Pump Station Force Main Rehabilitation Park Pump Station Force Main Rehabilitation Park Pump Station Rehabilitation/Improvements Plan Review & Inspection, Development & Svc Connectio Pretreatment Plant Improvements Regional Park Pump Station Sand Spring WWTP Remediation & Remediation Progran Spring Creek Force Main AV Valve Replacements Spring Creek Force Main Condition Assessment Spring Creek Force Main Con		-	_	-	799,300	127,546	620,000	51,606		
Heidelberg Heights WI investigation and Remediation Pro	Ι.	-	_	-	_	8,846	-	3,120		
Heidelberg Heights WWTP Rehabilitation	Ι.	-	_	-	300.000	25,077	275,000			
Hydraulic Model WLSP	l .	-	_	-	40,000	,	40,000	-		
Lynn Township I/I Investigation and Remediation Program Lynn Township WMTP Improvements & Expansion Park Pump Station Cond. Assessm Park Pump Station Force Main Rehabilitation Park Pump Station Storage Facility  50,000 Park Pump Station Force Main Rehabilitation Park Pump Station Storage Facility  50,000 Park Pump Station Storage Facility  50,000 Park Pump Station Force Main Rehabilitation Park Pump Station Storage Facility  50,000 Park Pump Station Force Main Rehabilitation Park Pump Station Park P	Ι.	-	_	-	-	34.055	-	_ !		
Lynn Township WWTP Improvements & Expansion  Park Pump Station Cond. Assessm	Ι	50,000	_	_	50,000	52,944	300,000	149,718		
Park Pump Station Cond. Assesm	1 .		_	_	50,000		50,000	416		
Park Pump Station Force Main Rehabilitation	Ι	-	_	_	-	885	-	-		
Park Pump Station Rehabilitation/Improvements	l .	_	_	_	100,000		100,000	_ !		
Plan Review & Inspection, Development & Svc Connection		_	_	_	100,000	450,777	400,000	3,602,549		
Pretreatment Plant Improvements			_		100,000	2,196		22,619		
Regional Park Pump Station	700.000	_	700,000	_	700,000		700,000	711,970		
Sand Spring WWTP Remediation & Replacement   -   -   -   -   -   -   -   -   -	700,000		700,000	_	50,000	113,104	700,000	711,570		
Signatory I/I Investigation & Remediation Program   270,000   27					500,000	1.368.403	3,600,000	161,090		
Spring Creek Force Main AV Valve Replacements				_	270,000	642,061	1,000,000	671,386		
Spring Creek Force Main Condition Assessment		-	-	-	40,000	9,321	40,000	25,494		
Spring Creek PS Upgrade	1	-	-	-	40,000	5,321	40,000	23,434		
SSES (Weisenberg, UMIT, Lowhill)   -   -   -   25,000   -   25,000   -   -   -   -   -   -   -   -   -	1	- 1	-	-		1.475		97,796		
Strawberry Acres Sewer         -	1	- 1	-	-	75,000		75,000	31,130		
WLI-Trexiertown Area Storage Facility - 200,000	1	-	-	-	73,000	60	73,000	902		
	1	-	-	-	200,000	14.209	400 000	55,844		
WTP Upgrade Study	1	-	-	-	200,000	14,209	400,000	55,044		
Wrnopgradus study Wrnoped I/I investigation and Remediation Program	1	-	-	· ·	25,000	9,423	50.000	5,001		
Wynnewood Terrace WWTP Remediation & Replacement	1	-	-	-	25,000	9,423 828.931	700.000	2.362.622		
wynnewood lerrace wwi P kemediation & kepiacement 1.309.300 250.000 - 340.000 25.000 25.000 25.000 500.000 25.000 - 100.000	700.000	100.000	700.000	-	3,299,300	,	8.350.000			
- 1,509,500 250,000 - 340,000 25,000 25,000 500,000 25,000 100,000	700,000	100,000	700,000	- 1	3,299,300	4,382,760	0,350,000	0,307,955		
Total Capital WasteWater Reserve Fund - 1.701.800 255.000 - 340.000 35.000 25.000 500.000 25.000 5.000 - 100.000	040.000	100.000	910.000		3.921.800	4.470.734	0 670 E00	40 674 527		
Total Capital WasteWater Reserve Fund - 1,701,800 255,000 - 340,000 35,000 25,000 25,000 500,000 25,000 5,000 - 100,000	910,000	100,000	910,000	-	3,921,800	4,470,734	8,670,500	10,671,537		

# LEHIGH COUNTY AUTHORITY CAPITAL EXPENDITURES - CITY - DIVISION FUND 2021 Budget and Comparative Prior Period Data

			С	ity Division							
	Undesignated	Int Serv	WFP	DIST	WWTP	WWCOLL	LAB	Budget	Tot Forecast	al Budget	Actual
	400	490	491	492	493	494	495	2021	2020	2020	2019
CAPITAL WATER RESERVE FUNDS Annual Projects											
Capital Management	10,000	-	-	-	-	-	-	10,000	3,876	22,500	-
Distribution Mains - Development		-	-	-	-	-	-	-	11,887	-	30,035
Distribution Mains - Upsizing Indenture Report Upgrades	250,000	-	-	-	-	-	-	250,000	-	-	=
Mobile Equipment	250,000	-	-	-	-	-	-	250,000	-	-	95,925
New & Replacements Meter Installations	50,000	-	-	-	-	-	-	50,000	55,486	50,000	81,982
Other Equipment PennDOT relocations	200,000	-	-	•	-	-	-	200,000	114,514	100,000	76,601
Reservoir Rehab/Maintenance	80,000	-	-	-	-	-	-	80,000	-	-	-
WFP General Improvements	500,000	-	-	-	-	-	-	500,000	478	500,000	-
WFP General System Replacements	1,090,000	<u> </u>	-	500,000 500,000	<u> </u>	<u> </u>	-	500,000 1,590,000	40,160 226,402	300,000 972,500	225,070 509,612
Multi Year Projects	1,090,000	-	-	500,000	-	-	-	1,590,000	220,402	972,500	509,612
Annual Water Main Replacements	-	-	-	1,900,000	-	-	-	1,900,000	1,270	-	647,515
Cedar Creek Bridge Replacement Collection System - Development & Service Connection	-	-	-	•	-	-	-	-	10,887 89	-	18,034 949
Distribution System Improvements	-					-			595,054		606,351
EPA AWIA Act 2020	-	-	-	-	-	-	-	-	33,837	-	31,285
Huck Ridge Main Break	-	-	-	-	-	-	-	-	140,659	=	=
High Service Pump VFD Replacement Project Itron/AMR Meter Project (1)	-	-	-	800,000 85.000	-	-	-	800,000 85,000	237	85,000	1,951
Low Lift Painting	-		-	-	-	-	-	-	109,209	-	21,255
Misc Facility Permit	-	-	-	-	-	-	-	-	346	-	11,313
N 17th Main Replacement Schantz Spring Exposed	-	-	-	-	-	-	-	-	118,452	-	10,714
SR 145 Bridge Project	-	-	-	-	-	-	-	_	142	-	392
Various Water System Related Studies	-	-	-	-	-	-	-	-	-	-	144
Water Capital Mgmt/WFP Master Plan	-	-	-	2,785,000	-	-	-	2,785,000	1,010,182	85,000	13,985
Administrative Projects	-	-	-	2,785,000	-	-	-	2,785,000	1,010,182	85,000	1,363,886
CMMS Upgrades	42,333	-	-	-	-	-	-	42,333	-	42,333	-
Computer System Hardware & Software Upgrades	42,333	-	-	-	-	-	-	42,333	-	42,333	61
Disaster Recovery/Security Upgrades  Document Management	10,583 84,667		-	-		-	-	10,583 84,667	-	10,583 84,667	-
GIS Upgrades & Application Development	21,167	-	-	-	-	-	-	21,167	-	21,167	-
Information Technology Master Plan Update	52,917	-	-	-	-	-	-	52,917		52,917	
SCADA Programming, Hardware Upgrades, Software & Training	63,500 317,500	-	-	-			-	63,500 317,500	144,980 144,980	63,500 317,500	143,429 143,489
										•	•
Total Capital Water Reserve Fund	1,407,500	-	-	3,285,000		-	-	4,692,500	1,381,564	1,375,000	2,016,987
CAPITAL WASTEWATER RESERVE FUNDS											
Annual Projects											
2020 SBM Data Capture Capital Management	10,000					-	-	10,000	8,187 1,798	10,000	10,524
Collection System - Development	-	-	-	-	-	-	-	-	35,481	-	12,854
Indenture Report Upgrades	500,000	-	-	-	-	-	-	500,000	-	-	-
Mobile Equipment Other Equipment	350.000	-	-	-	-	-	-	350,000	246,490	300,000	128,113 344,395
PennDOT relocations	200,000	-	-	-	-	-	-	200,000	240,490	-	-
Roof Replacements	-	-	-	-	-	-	-	-	-	-	118
Sanitary Sewer Main Replacements & Rehab Various Wastewater System Related Studies	100,000	-	-	•	-	-	-	100,000	39,176	100,000	59,839 1.041
WWTP Clarifier Mech	-					-			6,193		1,815
WWTP General Improvements	800,000	-	-	-	-	-	-	800,000	209,927	800,000	152,339
Multi Year Projects	1,960,000	-	-	-	-	-	-	1,960,000	547,254	1,210,000	711,037
Boiler Replacement and Solids Process HVAC Upgrade Project	200,000			-		_	_	200,000		-	-
Elec Substation	-	-	-	-	-	-	-	-	311	-	1,337,787
Flow Characterization Study (2)	-	-	-	-	1,250,000	-	-	1,250,000	-	1,500,000	-
I&I Source Reduction KIWWTP Interim 537	-		-	-		-	-	_	118,739	-	185,903 14,186
KIWWTP Master Plan	-		-	-	-	_	-	-	-	-	21,376
KIWWTP Max Month Study	-	-	-	-	-	-	-	-	1,101	-	34,888
KIWWtP Peak Flow Study Regional Flow Management Strategy (2)	-	-	-	=	775 000	-	-	775,000	57,334	720.000	-
SR 145 Bridge Project	_	-	-	-	775,000	-	-	- 175,000	885,004 2,557	730,000	76,992
	200,000	-	-	-	2,025,000	-	-	2,225,000	1,065,045	2,230,000	1,671,131
Total Capital WasteWater Reserve Fund	2 460 000				2.025.000			4 195 000	1 612 202	2 440 000	2 202 460
iotai Capitai vvastevvatei neserve rung	2,160,000		-		2,025,000		-	4,185,000	1,612,300	3,440,000	2,382,168
TOTAL CAPITAL EXPENSES:	3,567,500	-	-	3,285,000	2,025,000		-	8,877,500	2,993,864	4,815,000	4,399,156

<sup>(1) &</sup>quot;Uncompleted Work" City Projects that were supposed to be complete by the time of settlement or executed by City personnel after settlement. The City will fund these projects but has requested that LCA execute them.

Note: Annual Water Projects Includes Sodium Hypo project in 2021

<sup>(2) &</sup>quot;Administrative Order" Projects as per the Agreement are to be Funded by the City and executed by LCA.



# **LEHIGH COUNTY AUTHORITY** DEBT SERVICE RATIO AND CAPITAL COVERAGE RATIO 2021 Budget and Comparative Prior Period Data

De	bt Service Ratio (Indenture Based) Total Operating Revenues
	Total Operating Expenses (Cash Based)
	Interest Income
	Annual Lease Payment (City)
	Total Non-Operating Revenues (Expenses)
	Cash Available For Debt Service

Interest and Fees Paid Principal Paid Total Debt Service

Debt Service Ratio

<u>Capital Coverage Ratio</u> Net Cash Available After Debt Service Total Non-Operating Revenues Net Cash Available For Capital

Net Capital Spending Expensed Capex Total Capital Spending

Capital Coverage Ratio

Suburban Water										
Budget 2021	Forecast 2020	Budget 2020	Actual 2019							
11,799,441	10,546,404	10,582,010	9,948,169							
(8,637,775) 94,327	(6,134,848) 89.072	(7,334,728) 160,000	(6,027,132) 179,193							
-	-	-	-							
942,983 4.198,975	796,545 5,297,173	776,500 4.183,782	1,000,653 5,100,883							
4,190,975	5,297,175	4,103,702	5,100,003							
1,406,328	1,436,287	1,508,789	1,545,029							
2,092,818	2,081,372	1,832,775	1,725,137							
3,499,146	3,517,659	3,341,564	3,270,165							
1.20	1.51	1.25	1.56							

Suburban Wastewater										
Budget 2021	Forecast 2020	Budget 2020	Actual 2019							
40.400.000	45 000 004	40 440 454	44,000,500							
19,166,369	15,626,824	16,446,154	14,062,562							
(13,248,398)	(11,391,541)	(12,355,646)	(11,716,436)							
190,471	179,859	200,000	332,846							
-	-	-	-							
866,216	3,402,279	846,282	1,616,882							
6,974,657	7,817,421	5,136,790	4,295,854							
181,995	195,887	803,082	213,115							
549,034	542,067	813,353	499,109							
731,029	737,954	1,616,435	712,224							
9.54	10.59	3.18	6.03							

City Division										
Budget 2021	Forecast 2020	Budget 2020	Actual 2019							
41.996.514	35.988.451	37.315.488	37,075,861							
(21,339,140)	(19,386,416)	(18,659,910)	(18,165,550)							
172,960	166,148	900,000	1,193,617							
(1,230,600)	(533,258)	(533,258)	(524,861)							
4,007,230	2,492,172	4,356,800	2,237,653							
23,606,964	18,727,097	23,379,120	21,816,720							
11,565,086	10,608,837	13,978,238	12,185,856							
2,660,831	2,040,000	1,442,932	1,230,893							
14,225,917	12,648,837	15,421,170	13,416,749							
1.66	1.48	1.52	1.63							

Total LCA										
Budget 2021	Forecast 2020	Budget 2020	Actual 2019							
72,962,324	62,161,679	64,343,652	61,086,592							
(43,225,314)	(36,912,805)	(38,350,284)	(35,909,118)							
457,758	435,079	1,260,000	1,705,656							
(1,230,600)	(533,258)	(533,258)	(524,861)							
5,816,428	6,690,997	5,979,582	4,855,187							
34,780,596	31,841,691	32,699,692	31,213,457							
13,153,409	12,241,011	16,290,109	13,943,999							
5.302.683	4.663.439	4.089.060	3.455.139							
18,456,092	16,904,450	20,379,169	17,399,138							
1.88	1.88	1.60	1.79							

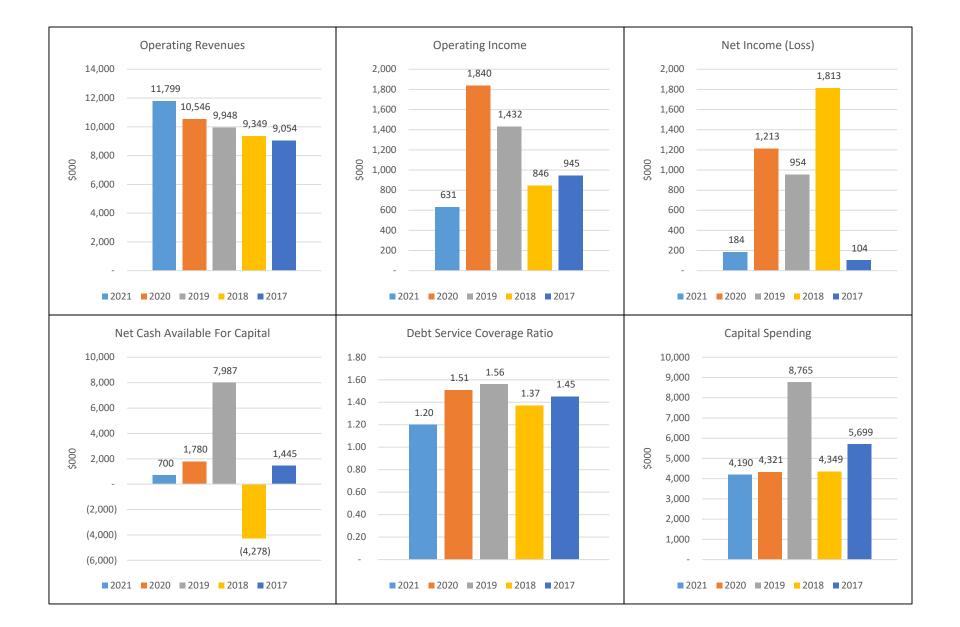
0.17	0.41	0.11	0.21
4,190,000	4,321,275	8,010,000	8,764,955
3,400	3,400	3,400	-
4,186,600	4,317,875	8,006,600	8,764,955
699,829	1,779,514	842,218	1,830,717
942,983	796,545	776,500	1,000,653
(243,154)	982,969	65,718	830,065

1.59	1.58	0.41	0.34
3,921,800	4,470,734	8,670,500	10,671,537
1,000,000	1,000,000	1,000,000	-
2,921,800	3,470,734	7,670,500	10,671,537
6,243,628	7,079,467	3,520,355	3,583,630
866,216	3,402,279	846,282	1,616,882
5,377,412	3,677,188	2,674,073	1,966,748

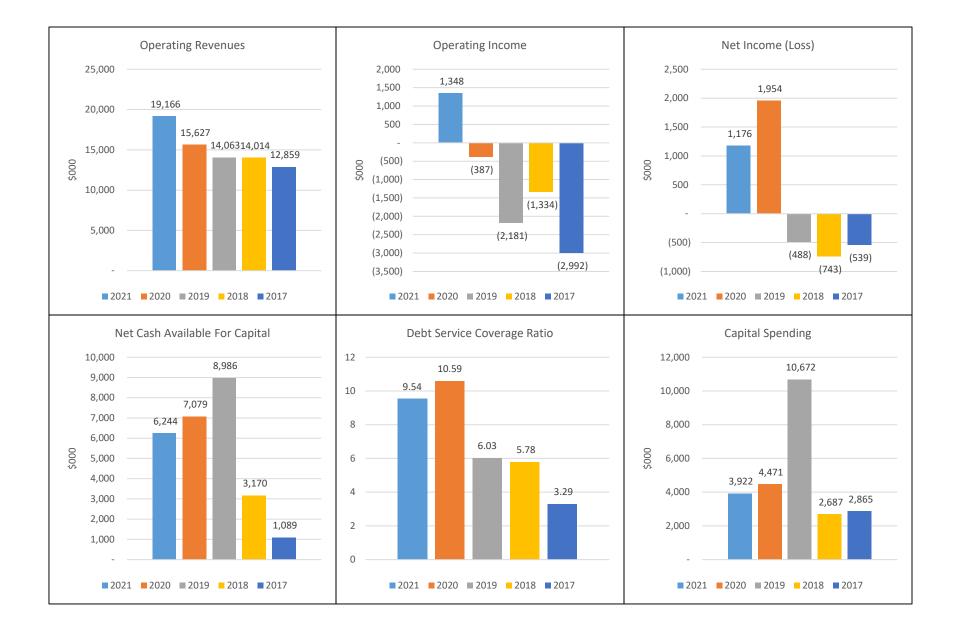
5,373,818	3,586,088	3,601,150	6,162,319
4,007,230	2,492,172	4,356,800	2,237,653
9,381,047	6,078,260	7,957,950	8,399,971
8,334,576	1,705,939	2,032,084	3,148,744
542,924	1,287,924	2,782,916	1,250,412
8,877,500	2,993,864	4,815,000	4,399,156
1.06	2.03	1.65	1.91

0.96	1 27	0.57	0.58
16,989,300	11,785,873	21,495,500	23,835,648
1,546,324	2,291,324	3,786,316	1,250,412
15,442,976	9,494,549	17,709,184	22,585,236
10,324,304	14,557,241	12,020,020	13,014,319
16.324.504	14.937.241	12.320.523	13,814,319
5,816,428	6,690,997	5,979,582	4,855,187
10,508,076	8,246,244	6,340,941	8,959,131

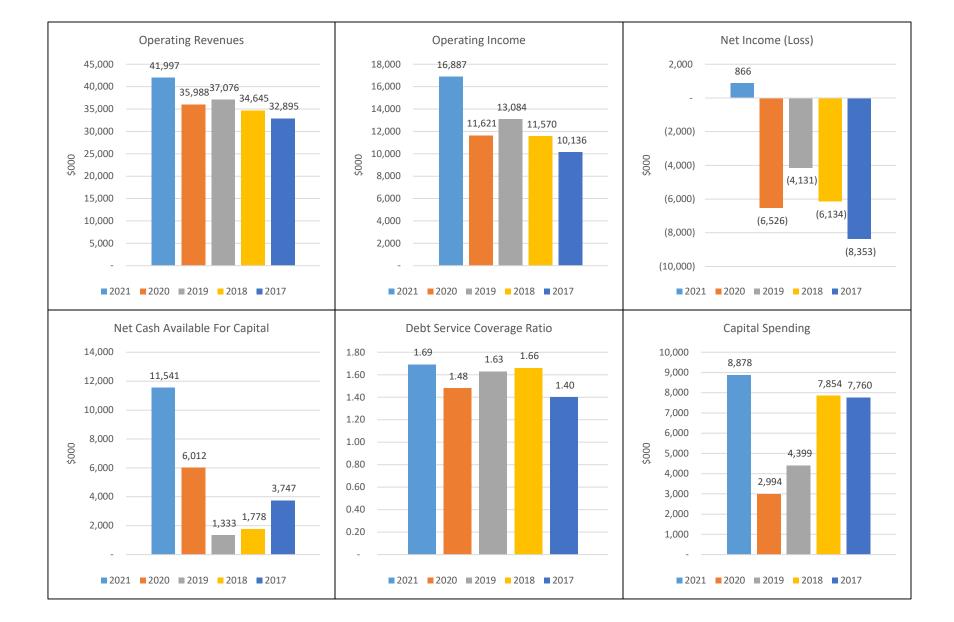
# Dashboard – Suburban Water



# Dashboard – Suburban Wastewater



# Dashboard - City Division



#### LEHIGH COUNTY AUTHORITY SUMMARY OF LONG TERM DEBT 2021 Budget and Comparative Prior Period Data

	Long Term Debt for 2020								Long Term Debt for 2021							
	De	ecember 31, 20°	19			De	ecember 31, 202	20	D	ecember 31, 20	20			December 31, 2021		
	Short Term	Long Term		Additions		Short Term	Long Term		Short Term	Long Term		Additions		Short Term	Long Term	
	Portion	Potion	Total Debt	Accretions	Retirements	Portion	Potion	Total Debt	Portion	Potion	Total Debt	Accretions	Retirements	Portion	Potion	Total Debt
Suburban Water Fund																
Water Revenue Bonds Series of 2010 A	-	11,590,000	11,590,000	-	-	-	11,590,000	11,590,000		11,590,000	11,590,000	-	-	-	11,590,000	11,590,000
Water Revenue Bonds Series of 2011	122,044	191,245	313,289	-	(122,044)	116,581	74,664	191,245	116,581	74,664	191,245	-	(116,581)	74,664	-	74,664
Water Revenue Bonds Series of 2015	1,072,850	1,088,705	2,161,555	-	(1,072,850)	1,088,705	-	1,088,705	1,088,705	-	1,088,705	-	(1,088,705)	-	-	-
Water Revenue Bonds Series of 2015 A	318,100	7,717,300	8,035,400	-	(318,100)	304,500	7,412,800	7,717,300	304,500	7,412,800	7,717,300	-	(304,500)	1,475,100	5,937,700	7,412,800
Water Revenue Bonds Series of 2017	320,000	14,580,000	14,900,000	-	(320,000)	330,000	14,250,000	14,580,000	330,000	14,250,000	14,580,000	-	(330,000)	340,000	13,910,000	14,250,000
2007 State Pennworks Note	176,181	1,302,910	1,479,091	-	(176,181)	179,737	1,123,173	1,302,910	179,737	1,123,173	1,302,910	-	(179,737)	183,365	939,808	1,123,173
2011 Pennsylvania Infrastructure Investment Authority Note	72.197	935.199	1.007.396	_	(72,197)	73,295	861.904	935.199	73.295	861.904	935.199	_	(73.295)	74.410	787.494	861,904
Subtotal	2,081,372	37,405,359	39,486,731	-	(2,081,372)	2,092,818	35,312,541	37,405,359	2,092,818	35,312,541	37,405,359	-	(2,092,818)	2,147,539	33,165,002	35,312,541
Bond Premium / Discount	_	359.339	359.339	_	_	_	359.339	359.339	_	359.339	359.339	_	_	_	359.339	359.339
Net Suburban Water Fund Long-Term Debt	2.081.372	37.764.698	39.846.070	-	(2.081.372)	2.092.818	35.671.880	37.764.698	2.092.818	35.671.880	37.764.698	-	(2.092.818)	2.147.539	33.524.341	35.671.880
Suburban Wastewater Fund	2,001,012	01,101,000	00,010,010		(2,001,012)	2,002,010	00,07 1,000	01,104,000	2,002,010	00,011,000	07,104,000		(2)002)010)	2,141,000	00,024,041	00,011,000
Cabai bail Hadionato I and																
2009 Pennsylvania Infrastructure Investment Authority Note	253,464	2,950,716	3,204,180	-	(253,464)	259,995	2,690,721	2,950,716	259,995	2,690,721	2,950,716	-	(259,995)	266,694	2,424,027	2,690,721
2011 Sewer Revenue Bonds Series A	114,905	1,367,092	1,481,997	-	(114,905)	114,259	1,252,833	1,367,092	114,259	1,252,833	1,367,092	-	(114,259)	118,358	1,134,475	1,252,833
2013 Pennsylvania Infrastructure Investment Authority Note	135,942	2,022,962	2,158,904	-	(135,942)	138,009	1,884,953	2,022,962	138,009	1,884,953	2,022,962	-	(138,009)	140,107	1,744,846	1,884,953
2015 Pennsylvania Infrastructure Investment Authority Note	37,756	628,777	666,533	-	(37,756)	36,771	592,006	628,777	36,771	592,006	628,777	-	(36,771)	36,922	555,084	592,006
Subtotal	542,067	6,969,547	7,511,614	-	(542,067)	549,034	6,420,513	6,969,547	549,034	6,420,513	6,969,547	=	(549,034)	562,081	5,858,432	6,420,513
Bond Premium / Discount	-	_	_	-	-	_	_	-	-	-	_	_	_	_	-	_
Net Suburban Wastewater Fund Long-Term Debt	542,067	6,969,547	7,511,614	-	(542,067)	549,034	6,420,513	6,969,547	549,034	6,420,513	6,969,547	-	(549,034)	562,081	5,858,432	6,420,513
City Division Fund																
2013 Water and Sewer Revenue Bonds, Series A	137,975,000	107,615,000	245,590,000	-	(137,975,000)	-	107,615,000	107,615,000	-	107,615,000	107,615,000	-	-	-	107,615,000	107,615,000
2020 Water and Sewer Revenue Bonds, Series 2020	-	-	-	161,035,000	-	-	161,035,000	161,035,000	-	161,035,000	161,035,000	-	-	-	161,035,000	161,035,000
2013 Water and Sewer Capital Appreciation Revenue Bonds, Series E	882,406	60,760,810	61,643,216	3,434,704	(915,000)	1,286,487	62,876,433	64,162,920	1,286,487	62,876,433	64,162,920	3,748,807	(1,395,000)	1,661,079	64,855,649	66,516,728
2018 Water and Sewer Revenue Bonds (Federally Taxable) Series C	955,000	16,985,000	17,940,000	-	(17,940,000)	-	-	-	-	-	-	-	-	-	-	-
2020 Water and Sewer Revenue Bonds (Federally Taxable) Series A	-	-		18,150,000	(1,125,000)	1,175,000	15,850,000	17,025,000	1,175,000	15,850,000	17,025,000	-	(1,175,000)	-	15,850,000	15,850,000
Subtotal	139,812,406	185,360,810	325,173,216	182,619,704	(157,955,000)	2,461,487	347,376,433	349,837,920	2,461,487	347,376,433	349,837,920	3,748,807	(2,570,000)	1,661,079	349,355,649	351,016,728
Bond Premium / Discount	-	(8,865,423)	(8,865,423)	-	-	-	(8,865,423)	(8,865,423)	-	(8,865,423)	(8,865,423)	-	-	-	(8,865,423)	(8,865,423)
Net City Division Fund Long-Term Debt	139,812,406	176,495,387	316,307,793	182,619,704	(157,955,000)	2,461,487	338,511,010	340,972,497	2,461,487	338,511,010	340,972,497	3,748,807	(2,570,000)	1,661,079	340,490,226	342,151,305
Total Net Long-Term Debt	142,435,845	221,229,632	363,665,477	182,619,704	(160,578,439)	5,103,339	380,603,403	385,706,742	5,103,339	380,603,403	385,706,742	3,748,807	(5,211,852)	4,370,699	379,872,999	384,243,698

# LEHIGH COUNTY AUTHORITY SCHEDULE OF PRINCIPAL MATURITY AND DEBT SERVICE 2021 Budget and Comparative Prior Period Data

Principle   Prin			Suburban Water		Suburban Wastewater				City Division		Total LCA			
Page   Annual   Page   Service   Annual   Page   Service   Annual   Annua		Principle		Total Debt			Total Debt	Principle		Total Debt	Principle		Total Debt	
1.726,137   1,468,478   2,161,652   469,190   189,044   688,042   1,20,0830   1,428,303   14,859,276   150,652,765   18,562,776   18,														
2001-Forecast   2,081,372		Amount	interest	OCI VIOC	Amount	interest	CCIVICC	Amount	interest	OCI VIOC	Amount	interest	CCIVICC	
2001-Forecast   2,081,372	2019 - Audit	1.725.137	1.468.478	3.193.615	499.109	198.934	698.043	1.230.893	13.428.383	14.659.276	3,455,139	15.095.795	18.550.934	
Substitute   Sub														
2012   Budget   2,092,818														
\$\frac{\text{birded Current Obligations} \   \frac{2}{2022} \   \frac{2}{2023} \   \frac{2}{2} \   \frac{2}{	• • • • • • • • • • • • • • • • • • •	.,,		-, ,	, , ,		,,	, ,	, .,	,,	,,,,,,,	,,	,,,,,,	
2022 2,417.539 1,381.168 3,488.707 552.081 169.411 731.492 2,2871.079 11,744.932 14,616.011 5,580.690 13,265.511 18,846.211 2023 2,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,838.143 15,130.021 3,247.078 11,938.143 15,130.021 3,247.078 11,938.143 15,130.021 3,247.078 11,938.143 15,130.021 3,247.078 11,938.143 15,130.021 3,247.078 11,938.143 15,130.021 3,247.078 11,938.143 15,130.021 3,247.078 11,938.143 15,130.021 3,247.078 11,938.143 15,130.021 3,247.078 11,938.143 11,938.143 15,130.021 3,247.078 11,938.143 11,9	2021 - Budget	2,092,818	1,406,328	3,499,146	549,034	184,072	733,106	2,461,487	11,697,831	14,159,318	5,103,339	13,288,231	18,391,570	
2024	SubTotal Current Obligations	2,092,818	1,406,328	3,499,146	549,034	184,072	733,106	2,461,487	11,697,831	14,159,318	5,103,339	13,288,231	18,391,570	
2024	-													
2024   2,146,033   1,250,434   3,444,465   604,907   19,220   724,172   8,006   1,2276   1,566,416   6,782,535   1,566,416   6,782,535   1,566,416   6,4097   1,5276   1,566,416   6,4097   1,5276   1,566,416   6,4097   1,5276   1,566,416   6,4097   1,5276   1,566,416   6,4097   1,566,416   6,4097   1,566,416   1,566,4	2022	2,147,539	1,351,168	3,498,707	562,081	169,411	731,492	2,871,079	11,744,932	14,616,011	5,580,699	13,265,511	18,846,210	
2025	2023	2,201,607	1,299,901	3,501,508	575,980	153,143	729,123	3,247,078	11,883,843	15,130,921	6,024,665	13,336,887	19,361,552	
2286	2024	2,194,031	1,250,434	3,444,465	590,251	136,418	726,669	3,586,247	12,078,569	15,664,816	6,370,529	13,465,421	19,835,950	
2027		2,277,350	1,188,131	3,465,481	604,907	119,220	724,127	3,895,996	12,321,700	16,217,696			20,407,304	
2,281,461   914,861   3,586,142   651,287   46,549   715,936   4,439,300   13,346,062   17,985,361   7,772,048   14,252,332   22,297,43   22,297,43   22,297,43   23,201   2	2026	2,380,063	1,123,270	3,503,333	619,957	101,536	721,493	3,940,919	12,845,192	16,786,111	6,940,939	14,069,998	21,010,937	
2,77,270   783,387   3,566,087   667,592   45,416   713,008   4,866,959   13,961,52   18,623,111   8,097,251   14,794,955   22,982,202   2032   2,970,234   492,665   3,462,999   252,498   11,169   28,5667   5,063,303   14,916,588   19,948,861   8,281,105   15,918,000   230,564   893,564   210,125   4,425   214,550   21,500   21,500   230,564   830,564   210,125   4,425   214,550   23,500,218   23,500   238,220   232,200   46,304   642   46,946   4,865,783   18,524,715   21,550   23,500,218   23,500   238,230   23,500   283,220   23,716   21,500   23,564   830,564   210,125   4,425   214,550   23,500,218   23,500   233,500   283,220   46,304   642   46,946   4,865,783   18,524,783   23,213,61   5,200,003   24,765,361   5,200,003   24,765,361   5,200,003   24,765,361   5,200,003   24,765,361   5,200,003   24,765,361   5,200,003   24,765,361   24,765,3													21,727,866	
2,886,957   641,754   3,510,711   664,340   25,636   709,976   4,856,002   14,416,609   19,272,611   8,409,299   15,043,999   23,437,223   23,675,42													22,297,439	
2932   2936   293.09   293.0													22,892,206	
2033   510,000 320,564 830,564   210,125 4,425 214,550   5,360,251 16,015,860 21,376,111   6,080,376 16,340,849 22,421,22 20,135   550,000 340,666 829,826 829,820 46,304 642 46,946 4,838,733 18,582,578 23,221,361 52,200,87 18,871,440 24,091,52 20,377   21,975,000 227,378 1 833,581 595,000 237,378 1 829,731 82														
2034   525,000   304,626   829,626   101,197   1,616   102,813   4,09,406   17,005,955   21,096,361   4,716,003   17,312,197   22,028,005   2036   560,000   271,601   831,501   11,707   34   11,741   4,865,398   19,819,693   24,876,361   5,220,873,105   20,928,498   25,519,800   234,731   599,000   234,731   829,731   639,73														
2035   55,000   288,220   823,220   46,304   642   46,946   46,846														
2036   560,000   271,501   831,501   580,000   255,818   835,818   581,501   580,000   255,818   835,818   581,501   580,000   255,818   835,818   580,000   255,818   835,818   580,000   234,731   829,731   590,000   244,850   829,850   615,000   244,850   829,850   615,000   244,850   829,850   615,000   244,850   829,850   615,000   244,850   829,850   615,000   635,000   172,462   832,462   660,000   172,462   832,462   660,000   172,462   832,462   680,000   172,462   832,462   680,000   172,237   832,237   680,000   10,548,863,930   12,225,381   12,895,000   10,162,823   23,057,224   24,045   2														
2037							- ,							
2038					11,707	34	11,741							
2039   615,000   214,850   829,850   -   -   -     10,090,000   11,051,361   21,141,361   11,765,000   11,266,011   21,971,01   11,765,000   11,266,011   21,971,01   11,765,000   11,266,011   21,971,01   11,765,000   11,266,011   21,971,01   11,765,000   11,266,011   21,971,01   11,765,000   11,266,011   21,971,01   11,765,000   10,740,755   22,505,75   22,505,75   22,043   705,000   705,000   103,444   833,444   -   -   -   10,086,000   7,973,111   18,638,111   11,395,000   8,076,555   19,471,55   2045   20					-	-	-							
2040					-	-	-							
2041					-	-	-							
2042 680,000 150,187 830,187 705,000 127,237 832,237 13,425,000 9,78,611 22,803,23,611 14,105,000 9,528,788 23,633,798 24,224,599 24,244,599 24,					-	-	-							
2043       705,000       127,237       832,237       -        -       -       -       -       -       -       -       -       -       -       -       -       -       -       -        -       -       -       -       -       -       -       - </th <th></th> <th></th> <th></th> <th></th> <th>-</th> <th>-</th> <th>-  </th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th>					-	-	-							
2044         730,000         103,444         833,444         -         -         -         -         10,665,000         7,973,111         18,638,6530         11,395,000         8,076,555         19,471,555           2046         780,000         78,806         828,806         -         -         -         11,785,000         68,653,00         11,863,301         11,965,000         7,505,336         19,465,33           2047         805,000         27,168         832,168         -         -         -         11,785,000         6,248,036         18,638,036         13,195,000         6,905,511         19,470,20           2048         -         -         -         -         -         -         -         11,100,000         5,613,049         16,713,049         11,460,000         5,254,297         11,460,000         5,254,297         11,460,000         5,254,297         11,460,000         5,254,297         11,460,000         5,254,297         11,460,000         5,254,297         11,460,000         5,254,297         11,460,000         5,254,297         11,460,000         5,254,297         11,460,000         5,254,297         11,460,000         1,461,1461         12,210,000         4,838,310         16,713,319         10,713,311         12,210,000         4,617,1					-	-	-							
2045         750,000         78,806         828,806         -         -         -         -         11,210,000         7,426,530         18,636,530         11,960,000         7,505,336         19,465,333           2046         780,000         53,494         833,494         -         -         -         -         11,210,000         7,426,530         18,636,530         11,960,000         7,505,336         19,465,333           2047         805,000         27,168         832,168         -         -         -         12,390,000         6,248,033         18,636,530         11,960,000         6,925,511         19,470,20           2048         -         -         -         -         -         -         -         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,254,297         16,714,297         11,460,000         2,254,297         16,714,297         11,460,000         2,254,297         16,714,4297         11,460,000         2,254,297					_		_ [ ]							
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2047         805,000         27,168         832,168         -         -         -         12,390,000         6,248,036         18,638,036         13,195,000         6,275,204         19,470,200           2048         -         -         -         -         -         -         -         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         16,713,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         5,613,049         11,100,000         6,613,049         11,100,000         6,613,049         11,100,000         6,613,049         11,100,000         6,613,049         11,100,000         6,613,049         10,713,049         11,100,000 </th <th></th>														
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2056       -	2054	-	-	-	-	-	-	13,530,000	3,181,190	16,711,190	13,530,000		16,711,190	
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SubTotal Future Obligations         35,312,541         13,216,447         48,528,988         6,420,513         924,339         7,344,852         343,974,323         378,461,798         722,436,121         385,707,377         392,602,584         778,309,96	2058	-	-	-	-	-	-	15,560,000	1,150,799	16,710,799	15,560,000	1,150,799	16,710,799	
	2059	-	-	-	-	-	-	16,125,000	585,660	16,710,660	16,125,000		16,710,660	
	SubTotal Future Obligations	35,312,541	13,216,447	48,528,988	6,420,513	924,339	7,344,852	343,974,323	378,461,798	722,436,121	385,707,377	392,602,584	778,309,961	
TOTAL PRINCIPAL MATURITY AND DEBT SERVICE 41,211,868 17,527,540 58,739,408 8,010,723 1,503,232 9,513,955 505,589,110 414,389,209 919,978,318 554,811,701 433,419,981 988,231,685	TOTAL PRINCIPAL MATURITY AND DEBT SERVICE	41,211,868	17,527,540	58,739,408	8,010,723	1,503,232	9,513,955	505,589,110	414,389,209	919,978,318	554,811,701	433,419,981	988,231,682	

### **OPERATING REVENUES:**

**Large Industrial** – This classification includes water revenue from utility billing customers classified as Large Industrial.

Other Industrial/Commercial – This classification includes water revenue from utility billing customers classified as Other Industrial and Commercial.

**Residential** – This classification includes water revenue from utility biling customers classified as Residential. The category includes apartments, mobile homes, single family attached and single family detached dwellings.

**Penalties** – Late fees assessed to past due accounts.

**Private Fire Service** – This classification includes charges for private fire protection for those industrial/commercial customers who have either a sprinkler system or private fire hydrants

**Public Fire Service** – This classification includes charges for public fire hydrants billed to municipalities in our service area.

**User Charges – Municipal** - The City is party to Municipal Sewer Service Agreements under which the Sewer Utility System provides sewer services to seven municipalities or municipal authorities: the Borough of Emmaus, Hanover Township, Salisbury Township, South Whitehall Township, Coplay-Whitehall Authority, Existing LCA System, and Lower Macungie Township. Pursuant to these agreements, LCA will act as the agent of the City and will perform all of the contractual obligations of the City under each Municipal Agreement, including the billing and collection of the revenues.

The Suburban division provides sewer service to Lower Macungie Townshp, Upper Macungie Township, Borough of Emmaus, Borough of Alburtis, and Borough of Macungie through the Western Lehigh Interceptor. Through the Little Lehigh Relief Interceptor, sewer service is provided to Lower Macungie, Upper Macungie, Salisbury and South Whitehall Townships and the Boroughs of Alburtis and Macungie.

**User Charges - Residential & Commercial** – This classification includes revenue from sewer service to residential and commercial customers in the Suburban and City Division.

**User Charges – Hauler** – This classification includes revenues from haulers based on strength and volume of waste brought to the wastewater treatment plants.

Hauler Fees – This classification includes revenue from annual permit fees.

**Industrial Charges** – This classification includes revenue from industrial strength surcharges to the Suburban Division Pretreatment Plant.

**Industrial Pretreatment Revenues** - This classification includes charges for the operation of the EPA approved Pretreatment Program, as described in 40 CFR 403.

Wastewater Analysis Reimbursement – This classification includes reimbursements for lab testing costs.

**Leachate Program Revenues** - This classification includes charges for the processing and treatment of hauled leachate to the Allentown WWTP.

**Other Income** – This classification includes reimbursement of Lehigh County Authority expenses by other entities.

**Other Water Sales** – This classification includes revenues from water sold to Municipal Signatories and for bulk water drawn from hydrants.

**Provision for Doubtful Debts** - The provision for doubtful debts is the estimated amount of bad debt that will arise from accounts receivable that have been issued but not yet collected.

**Rental Income** – This classification includes the annual reimbursement from the various funds for a portion of the Authority Operations Center costs and expansion.

**Miscellaneous** – This classification includes revenue from other miscellaneous categories not part of other revenue classifications.

### **CONNECTION & SYSTEM CHARGES:**

**Supply/Tapping Fees** – This classification includes charges to new customers which are based on connection size. These revenues offset costs related to construction of storage and supply facilities.

**Capital Cost Recovery** – This classification includes the portion of major capital project costs being reimbursed by customers.

**Distribution Tapping Fees** – This classification includes charges to new customers which are based on connection size. These revenues offset costs related to construction of transmission and distribution facilities. These charges are generally not applicable to customers connecting within a developer-installed distribution system.

**Meter Sales** – This classification includes charges to new customers for initial meter and backflow prevention device costs and installation.

**Inspection & Review Fees** – This classification includes the deposits made by developers for LCA construction inspection and plan review costs.

**Developer Reimbursement** - This classification includes the reimbursement from developers for LCA inspection and plan review costs.

### **NON-OPERATING REVENUES:**

**Other Non-Operating Income** - This classification includes revenue from other non-operating miscellaneous categories not part of other revenue classifications.

### **OPERATING EXPENSES:**

### Personnel:

**Salaries and Wages** - Salary is a consistent payment to an employee based on working a full-time position. Wages are hourly or daily payments for work done during the working day.

**Overtime** - Overtime refers to any hours worked by an employee that exceed their normally scheduled working hours.

Taxes - Comprised of Employer portion of FICA, Social Security and Medicare contributions.

**Fringe Benefits** - Comprised of medical coverage, defined benefit pension, long-term and short- term disability, flexible spending and unemployment insurance.

### **Purchase of Services:**

**Shared Services - General & Administrative** - Overhead costs, which are not easily assignable to specific funds, are allocated based on a pro rate share of Salary and Wages and include the following types of expenses:

Postage - Represents cost to mail correspondence and customer billings.

Computer Services - Nominal services for computer services.

**Advertising** - Includes costs for advertising bid and meeting notices.

**Building & Equipment Maintenance** - Represents Operations Center costs, such as site and building maintenance and equipment maintenance.

**Dues & Subscriptions** - Organization membership fees and contributions and periodical subscriptions.

**Travel and Mileage** - Includes reimbursement to employees at prevailing IRS rate for personal vehicle use for business purposes.

**Education and Training** - Budget includes specifically identified training for employees, whether through participation in seminars or classes.

Workers Compensation - Workplace injury coverage.

**Property & Liability Insurance** – Insurance premiums for all properties, with the exception of the Wastewater Treatment Plant in Upper Macungie which is charged directly to that fund.

**Legal/Litigation** - Represents costs associated with labor relations, part-time Solicitor and other global legal issues.

**Miscellaneous** - Comprised of banking costs, printing services, contributions, employee activities and other miscellaneous expenses.

**Risk Management** - Includes safety equipment, training and miscellaneous expenses.

**Public Relations** - Represents costs associated with reaching out to stakeholders with educational programs and a host of interactive agendas.

**Human Resources** - Comprised of human resource projects.

**Special Studies** - Includes costs for conducting a customer survey, compensation study, strategic planning, and process improvement.

Utilities - This account includes electric costs, natural gas service, telephone and garbage hauling.

**Compliance** - This budget includes permit fees and renewals for the water and wastewater treatment plants

**Contract Operating Svcs** - Budget includes such services as root control program, Farland Development Dump Site, system check support services and Trenchless spot repairs.

**Engineering** - This budget line item is for miscellaneous consultant assistance with reporting to the Pa DEP on RDII removal efforts and unanticipated situations at facilities requiring engineering services.

**Exceptional Strength Analysis -** This account provides for external laboratory analysis of samples containing higher strength concentrations.

**Extraordinary Expenditures** - This budget line maintains the same level of insurance against an extraordinary leak repair and restoration in all systems. It includes items such as well and booster pump replacements, piping re-configurations and other services utilized in various systems.

**Fleet Management Services** - This budget includes maintenance services for vehicles and mobile equipment

**General Analyses** - This account provides for external laboratory analysis of samples to support the biosolids disposal and the residuals disposal programs.

**Industrial Meter Testing** – This budget includes cost to test large commercial meters for accuracy.

**Maintenance Services** - This budget includes expenses required for site and building maintenance, transmission and distribution maintenance services, equipment maintenance and rental, janitorial services, and other miscellaneous maintenance services.

**Miscellaneous Services** - This budget includes property self-insured, Enterprize fleet program lease, traffic control, after hours dispatching service, communication center, PA One Call system, easement brush & tree cleaning, radio repairs, Trimble software maintenance, TV truck Win Can, railroad easement fees, miscellaneous services and miscellaneous shipping.

**Rental** - Allocation of expenses related to the Authority Operations Center renovations and expansion are being allocated over 30 years.

Residuals - This budget includes residuals disposal costs.

Water Purchases - This budget includes the purchase of water from the Northampton Borough Municipal Authority for customers in the North Whitehall Division, the purchase of water from the Borough of Slatington for customers in the Washington Township Division, the purchase of water from the Borough of Emmaus for the LCA Out-of-Borough customers in Lower Macungie, Salisbury and Upper Milford Townships and the purchase of water from the City Division for customers in the Central Lehigh Division.

**System Planning / Capital Management** – This budget includes allocation of certain capital management costs to the operating budgets.

**Treatment and Transportation** - Represents charges to the Upper Milford, Weisenberg Township, and Lowhill Collector Systems for flow and strength based on sample strength or normal strength levels for non-sampled customers. This category also includes costs associated with the Western Lehigh Interceptor, the Little Lehigh Interceptors and Emmaus transportation charges.

## **Materials & Supplies:**

**Purification Chemicals** - The treatment plant chemical budget includes: LOX, sodium hypochlorite, chlorine, polymer, larvicide, potassium permanganate and other chemicals.

**Purification Supplies** - This budget includes reagent sets, injectors and repair parts, analyzer supplies, and miscellaneous parts and supplies.

Pump Supplies - This budget includes pump supplies, well supplies and reservoir supplies.

**Misc. Materials & Supplies** - This budget includes SCADA / TELOG supplies, uniform costs, lab supplies, and miscellaneous supplies.

Fuel & Mileage – This budget includes the cost of unleaded and diesel fuels.

**Fleet Management Supplies** - This budget provides for mobile equipment supplies and lubricating oils.

**Equipment** - Funding to replace / update equipment used to maintain the distribution and collection systems. This budget includes line locators/metal and leak detector equipment, permaloggers, magnetic locators, curb/valve keys chemical pumps, valve replacement, sump pumps, prominent Cl2 analyzers, well depth probes, VFD purchase, dehumidifiers, booster pumps, TELOG equipment, pipe saws, trash pumps, hypo tanks, reservoir #5 mixer, submersible level transmitters, miscellaneous lab equipment, and miscellaneous tools & other minor equipment.

Leased Equipment - This budget includes costs to lease mobile and other equipment.

**Distribution & Transmission Supplies** - This item includes repair clamps, fittings, and pipes, "No-Lead" brass and copper, crushed stone and blacktop, valve and curb boxes, miscellaneous supplies, and hydrant supplies.

**Collection System Supplies** - This budget includes degreaser, inspection dye & deodorizer, concrete, manhole frames and covers, risers rings, ferncos & couplings / wrapid seal, SDR Pipe, hose lines paving material, salt, and topsoil, crushed clean stone, lubricating oils & grease, misc. supplies/gaskets/seals, and maintenance & construction materials.

**Depreciation and Amortization** - This expense is calculated by the straight-line method using standard depreciation periods. Annual amortization over the life of the financing is included.

### **Other Expenses:**

Major Maintenance Expenses – Includes the City Capex charged to expense.

**Other Miscellaneous** – This expense includes financing costs related to new debt and annual fees from the Trustees overseeing the various bond series, cost of goods sold, and allocation of GIS capital costs to wastewater operating funds.

### **NON-OPERATING INCOME (EXPENSE):**

Investment Earnings – Interest earned on Authority investments and deposit accounts.

Interest Expense – Interest paid on Authority bonds and Pennvest loans.

**Capital Contributed** – This includes infrastructure contributed by developers .