

**Application of Pennsylvania-American Water Company for Acquisition of
the Wastewater Assets of the Township of Exeter
66 Pa. C.S. §1329
Application Filing Checklist – Water/Wastewater
Docket No. A-2018-_____**

15. Plant in Service.
- a. Provide an inventory of the used and useful plant assets to be transferred. Identify separately any utility plant that is held for future use.³

RESPONSE:

- a. See enclosed Engineer's Assessment as required by 66 Pa. C.S. § 1329(a)(4).

³ The inventory was developed from available records, maps, work orders, debt issue closing documents funding construction projects, and other sources to ensure an accurate listing of utility plant by utility account.



**TOWNSHIP OF EXETER
BERKS COUNTY, PENNSYLVANIA**

**TOWNSHIP OF EXETER WASTEWATER SYSTEM
ENGINEERING ASSESSMENT AND
ORIGINAL COST**

August 2018



Prepared by:
GANNETT FLEMING
VALUATION AND RATE CONSULTANTS, LC



Valley Forge, Pennsylvania

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PURPOSE OF REPORT

The purpose of this report is to provide an “assessment of the tangible assets of the selling utility” (“engineering assessment”) per the requirements of Pennsylvania Act 12 of 2016 (“Act 12”) and as further required by the Final Implementation Order entered by the Public Utility Commission at Docket No. M-2016- 2543193.

The engineering assessment follows the practices and procedures of the Public Utility Commission and the National Association of Regulatory Utility Commissioners (“NARUC”) Systems of Accounts and provides an inventory list of the used and useful utility plant assets (including land and land rights) to be transferred compiled by year and account. Any utility plant held for future use is identified separately. The inventoried assets were assigned an account number that conforms to the NARUC System of Accounts for wastewater systems.

The report preparation process included meeting with key Exeter Township representatives to identify and confirm specific information needed to support our assessment and to prepare this report. The Engineer’s inventory of assets was determined using Exeter Township’s records, project engineering costs and unit costs typical of other wastewater utilities in the region.

The engineering assessment report describes the used and useful utility plant assets to be transferred, provides an inventory compiled by year and account of the used and useful utility plant assets to be transferred, provides information on permitted discharges, operating records, operation and maintenance expenses, and provides projections for the future capital projects.

The results of the inventory established that the original cost of the used and useful utility plant assets to be transferred is \$68,404,345 as of April 30, 2018.

DESCRIPTION OF SYSTEM

The Exeter Township (“Township”) is located within the Reading Metropolitan Area in the south central section of Berks County, Pennsylvania, about 1 ½ miles east of the City of Reading. The Township consists of 24.1 square miles and is bounded by the Townships of Alsace, Amity, Cumru, Lower Alsace, Oley and Robeson; by the Boroughs of Birdsboro, Mount Penn and St. Lawrence; and by the Schuylkill River.

The Township owns and operates a wastewater system consisting of wastewater treatment facilities, gravity mains, force mains, pump houses, associated infrastructure and appurtenances, and related land and land rights (“Wastewater System”). The Wastewater System serves Township, St. Lawrence Borough, the Shady Lane Estates area of Alsace Township, and a small portion of Lower Alsace Township.

A map of the Wastewater System’s service area is contained in Appendix A.

WASTEWATER TREATMENT PLANT

The Township Wastewater Treatment Plant (“WWTP”) operates under National Pollutant Discharge Elimination System (NPDES) Permit No. PA0026972. The WWTP treats wastewater originating from Township, St. Lawrence Borough, and small portions of Alsace Township and Lower Alsace Township in Berks County and consists of two (2) separate treatment flow trains, the East WWTP and the West WWTP. The East WWTP is used exclusively for the equalization of high-strength residual waste, as needed. The West WWTP consists of the Main Pumping Station, Headworks Building, four (4) Primary Clarifiers, three (3) 1st Stage Aeration Tanks, two (2) 2nd Stage Aeration Tanks, four (4) Final Clarifiers, and two (2) Chlorine Contact Tanks.

A process flow schematic diagram of the West WWTP is provided in Appendix B.

The WWTP (combined East and West treatment trains) is currently permitted for an annual average daily flow capacity of 7.10 million gallons per day (mgd) and a maximum month average daily flow capacity of 9.63 mgd. Additionally, the WWTP (combined East and West treatment trains) is permitted for a maximum month organic loading capacity of 20,289 pounds of BOD₅ per day (lbs. BOD₅/day). The West WWTP has a maximum month flow capacity of 8.43 mgd and a maximum month organic loading capacity of 17,739 lbs. BOD/day. A summary of the hydraulic and organic loading capacities of each treatment train is summarized below.

| | Hydraulic Capacity | | Organic Capacity |
|-----------|----------------------|---------------------|------------------------------|
| | Annual Average (mgd) | Maximum Month (mgd) | Maximum Month (lbs. BOD/day) |
| East WWTP | 1.20 | 1.20 | 2,550 |
| West WWTP | 5.90 | 8.43 | 17,739 |
| Combined | 7.10 | 9.63 | 20,289 |

Hydraulic and organic loadings from 2013 through 2017 and for a 5-year projection period, 2018 to 2022 are presented in Appendix C.

Solids production and handling occurs in several stages. Raw sludge from the Primary Clarifiers is pumped directly to one of the two (2) Primary Anaerobic Digesters. Waste Activated Sludge from the biological system is gravity thickened before also being pumped to one of the two (2) Primary Anaerobic Digesters. After digestion, the stabilized biosolids are transferred to an aerated Sludge Holding Tank before being dewatered by one of two (2) Centrifuges. A Sludge Dryer (“Biosolids Drying Facility”) provides drying of dewatered biosolids. Dried biosolids are disposed of at a landfill.

The Biosolids Drying Facility reduces operating costs for the Wastewater System, and, at the same time, creates the opportunity to convert a waste product into fertilizer or an energy source.

The Wastewater System's sludge averages approximately 24% solid and 76% water. By using a dryer, the sludge becomes approximately 94% solid and 6% water. Using this process, only 1/5th of the amount of dewatered sludge has to be disposed of for approximately 20% of the disposal cost, or at no cost at all as a result of local farmers taking and using byproduct from the WWTP in farming operations. The biosolids meet the most stringent trace element limits, Class A pathogen, and vector reduction standards set forth by the Pennsylvania Department of Environmental Protection.

The Wastewater System continues operation of an USEPA-approved Industrial Pretreatment Program. Five (5) significant industrial users are connected to the system, of which two (2) are considered categorical industrial users by definition:

- BFK Corporation
- Godiva Chocolates
- FR&S / Pioneer Crossing Landfill
- SFS Intek (Categorical Industrial User)
- Arkema, Inc. (Categorical Industrial User)

All permitted industrial users are inspected and sampled, and all have submitted the required self-monitoring reports under the terms of their industrial discharge permits. The Township's 2017 Pretreatment Annual Report indicated that there were no industrial discharge violations or significant non-compliances during the year.

The Wastewater System routinely receives hauled leachate from several landfills, assorted commercial and industrial waste, residential septage, grease, and sludge that is delivered to the WWTP by multiple contract haulers. Hauled waste is discharged from the tanker trucks at several customized discharge locations throughout the WWTP. Grease is discharged into the Primary Clarifier scum pit and pumped directly to the Primary Anaerobic Digester.

COLLECTION SYSTEM

The Wastewater System's collection system collects domestic wastes and industrial wastes through 123 miles of gravity sewers and convey the wastes to the WWTP. In addition, six (6) pumping stations convey less than 3% of the total collection system flow to the WWTP. Township personnel are responsible for operation and maintenance of the WWTP, as well as the Wastewater System's collection system and pumping stations. Collection system maintenance consists of regular flushing of main lines, maintenance of rights-of-way, and repair and replacement of sewer lines, as needed. The Wastewater System's collection system is considered to be in satisfactory condition. Repair and replacement of damaged main lines and manholes is performed in a timely manner.

The Wastewater System also provides service to St. Lawrence Borough and a portion Lower Alsace and Alsace Townships under Inter-municipal Agreements. Areas included under agreement are the Borough of St. Lawrence, and small portions of the Alsace Township and Lower Alsace Township, all located in Berks County. Except for the billing agreement with Lower

Alsace Township, none of the current Inter-municipal Agreements between the Township and St. Lawrence, Alsace Township, or Lower Alsace Township contain termination provisions

The St. Lawrence Borough collection system contains multiple connection points to the Wastewater System's collection system including a portion of Antietam Creek Trunk Sewer located within the Borough, and owned by the Borough. Shady Lane Estates in Alsace Township is connected the Wastewater System. Various properties within Lower Alsace Township connect to the Antietam Creek Trunk Sewer where it is located within Lower Alsace Township.

The Wastewater System's collection system is divided into three main drainage basins where waste is conveyed to the WWTP though the Schuylkill River, Heisters Creek and Antietam Creek Trunk Sewers. The Schuylkill River Trunk Sewer begins at the WWTP and continues along the southern border of the Township and the Schuylkill River, then turning north along East Neversink Road ending at S.R. 422. The Schuylkill River Trunk Sewer is 15-inches in diameter up to the connection point of the Antietam Creek Trunk Sewer where it is enlarged to 30-inches in diameter up to the WWTP.

The Heisters Creek Trunk Sewer begins at the WWTP and continues upstream along the Heisters Creek, where it branches to the collection system. The Heisters Creek Trunk Sewer ranges in diameter from 8-inches at its upper reaches to 16-inches at the connection point to the Schuylkill River Trunk Sewer.

The Antietam Creek Trunk Sewer begins at the Schuylkill River Trunk Sewer at the southern border of the Township and extends north through St. Lawrence Borough near Butter Lane. The Antietam Creek Trunk Sewer ranges in diameter from 12-inches at its upper reaches to 27-inches at the connection point to the Schuylkill River Trunk Sewer. St. Lawrence Borough and parts of Lower Alsace and Alsace Townships are served by the Antietam Creek Trunk Sewer and the WWTP.

The Wastewater System includes six (6) pumping stations within its collection system: Lincoln Road, Buddies Place, Pottstown Avenue, South Baumstown, Pineland Road, and Glen Oley. All six (6) pumping stations are maintained and inspected by WWTP operators and Township maintenance personnel on a regular basis. Pumping station inspections typically occur three (3) times per week, except at the Lincoln Road Pumping Station, which is checked daily. Cleaning, repairs, and routine maintenance items are performed regularly.

Inspection logs for various pieces of equipment are also posted at each pumping station. Preventative maintenance to the pumping stations in 2017 included flushing wet wells, exercising valves every three months and operating back-up generators, under load, according to manufacturer specifications.

A summary of the pumping stations' capacity and recent historical flow of each pumping station is summarized below.

| Pumping Station | Rated Capacity (MGD) | Annual Average Daily Flow (MGD) | | | | | |
|-----------------|----------------------|---------------------------------|-------|-------|-------|-------|-------|
| | | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
| Lincoln Road | 1.08 | 0.074 | 0.076 | 0.081 | 0.073 | 0.074 | 0.079 |
| Buddies Place | 0.206 | 0.007 | 0.009 | 0.009 | 0.008 | 0.007 | 0.006 |
| Pottstown Ave | 0.238 | 0.007 | 0.008 | 0.009 | 0.007 | 0.007 | 0.009 |
| South Baumstown | 0.242 | 0.009 | 0.009 | 0.010 | 0.010 | 0.010 | 0.010 |
| Pineland Road | 0.055 | 0.027 | 0.002 | 0.002 | 0.002 | 0.002 | 0.001 |
| Glen Oley | 0.308 | 0.006 | 0.006 | 0.007 | 0.006 | 0.007 | 0.008 |

WASTEWATER SYSTEM INVENTORY

The original cost of the Wastewater System’s inventory/assets was determined from the Township’s records, project engineering costs and unit costs typical of other wastewater utilities in the region. The inventory/assets list of was developed of the Wastewater System’s used and useful utility plant assets (including land and land rights) to be transferred compiled by year and account. Any utility plant held for future use is identified separately. The assets were assigned an account number that conforms to the NARUC System of Accounts for wastewater systems.

The Wastewater System’s inventory/assets, organized by NARUC account number, list is shown in Appendices D and E. The NARUC wastewater systems account numbers is shown in Appendix F.

The WWTP assets were field inspected, and if available, information was obtained from the Township’s accounting records of capital improvements purchases, work orders, and the Township’s Pennsylvania Act 57 of 2003 capital charges studies. The costs associated with pump stations and pumping equipment were determined by Township’s accounting records of capital improvements purchases and standard construction costs of others, ENR Construction Index and site tours.

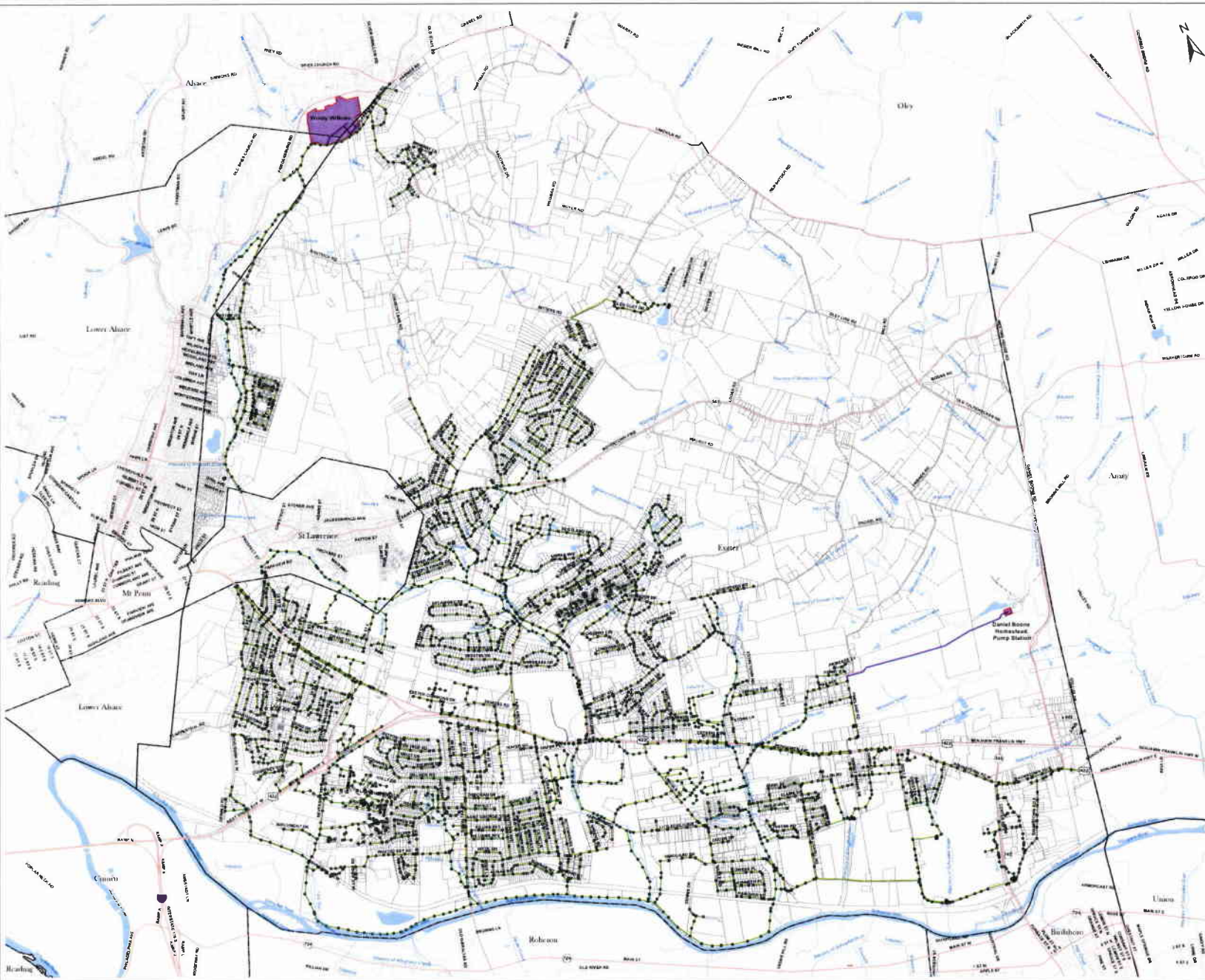
For mains and manholes, an inventory of the footage of mains by size and type material and the number of manholes from institutional knowledge, available records, maps, and the Township’s electronic sewer index map using Geographical Information System (“GIS”) mapping technology. The GIS data identifies and labels the manholes in the collection system, as well as the diameter of mains and material. Each customer has a service with these assets being assigned the same installation year as the related main. The unit costs were developed from typical unit costs experienced by other wastewater utilities in the region, published unit costs or experienced costs trended to the year of installation using ENR Construction Index. The inventory of the Wastewater System’s land and land rights was obtained from deeds, right-of-way agreements, and the Township’s GIS data.

The results of the inventory established that the original cost of the Wastewater System’s utility plant in service as of April 30, 2018 is \$68,404,345 as shown on Appendix D. The inventory of the assets organized by NARUC account number and year installed is shown on Appendix E.

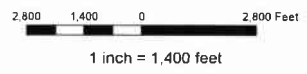
A summary of the Wastewater System's operation and maintenance expenses for 2015 and 2016 and the Wastewater System's 2018 budgeted operation and maintenance expenses are shown on Appendix G. The Township's projected future capital projects for the Waste System are shown on Appendix H.

Appendix A - Map of Service Area

Exeter Township
2017 Chapter 94
Sanitary System Map



- Legend**
- Pump Stations
 - Sanitary Manholes
 - Existing Sanitary Sewer
 - Proposed Sanitary Sewer Extension
 - State Roads
 - Local Roads
 - Streams
 - Water
 - Parcel
 - Municipal
 - Proposed Construction Area



EXETER TOWNSHIP
 2017 CHAPTER 94 SANITARY SYSTEM MAP
 EXETER TOWNSHIP HUNTS COUNTY PENNSYLVANIA

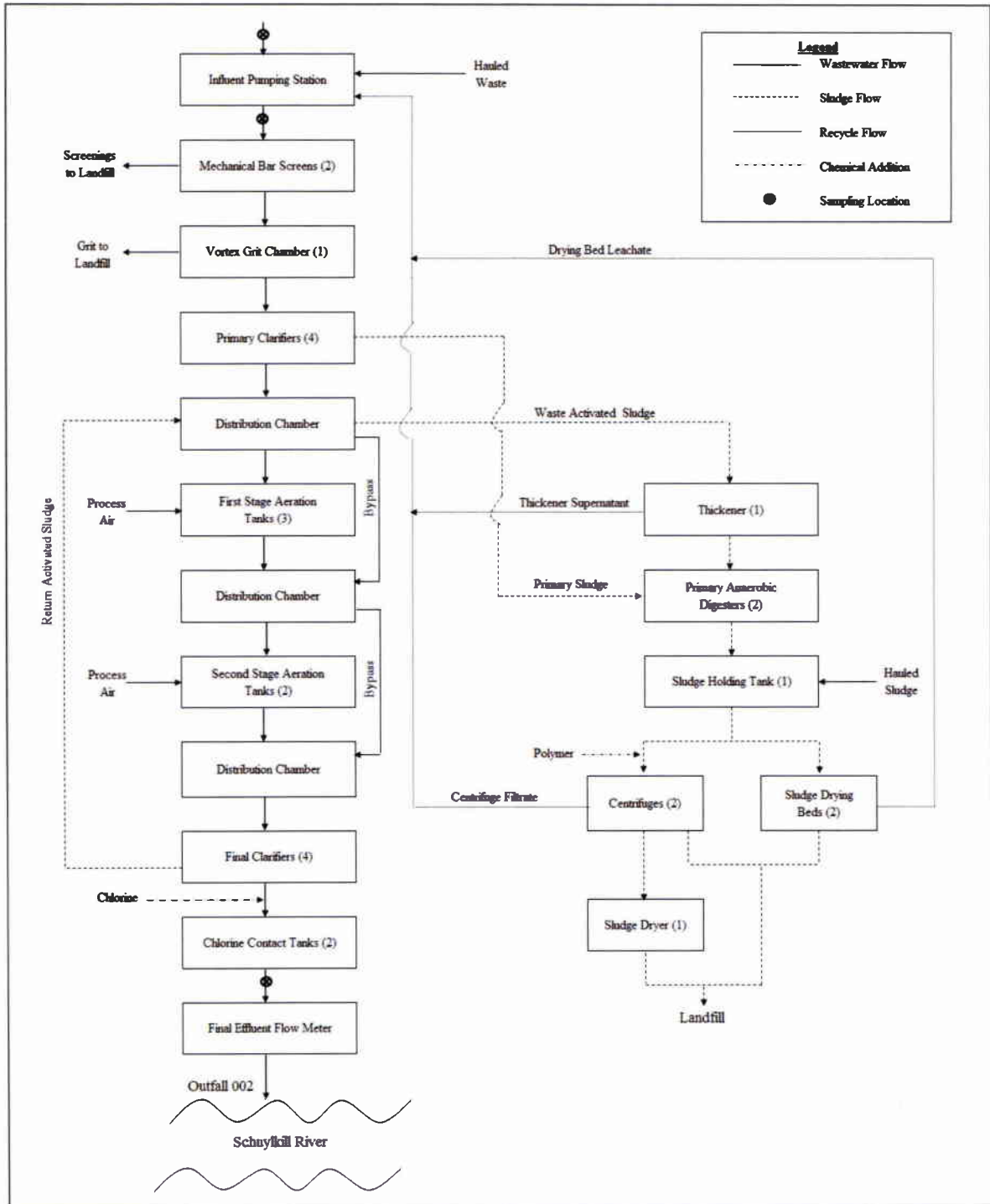
GVC
GREAT VALLEY CONSULTANTS
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ENGINEERS • ARCHITECTS • PLANNERS • CONSULTANTS • SURVEYORS

| | |
|-------------------------------|--------------------------------|
| DRAFTED BY: J. MILLER | SCALE: 1" = 1,400' |
| CHECKED BY: B. MCKEON | DATE: 3/8/2018 |
| PROJECTION: NAD83 STATE PLANS | DRAWING NUMBER: 1017-009-04-01 |

Appendix B - Process Flow Schematic Diagram of the West WWTP

West Wastewater Treatment Plant Process Flow Schematic Diagram



Appendix C - Hydraulic and Organic Loadings



PADEP Ch. 94 Spreadsheet
Sewage Treatment Plants

Reporting Year: 2017

Facility Name: Exeter Township

Permit No.: PA0026972

Persons/EDU: 3.5

Existing Hydraulic Design Capacity: 8.73 MGD
 Upgrade Planned in Next 5 Years? NO Year:
 Future Hydraulic Design Capacity: MGD

Existing Organic Design Capacity: 17,739 lbs BOD5/day
 Upgrade Planned in Next 5 Years? NO Year:
 Future Organic Design Capacity: lbs BOD5/day

Monthly Average Flows for Past Five Years (MGD)

| Month | 2013 | 2014 | 2015 | 2016 | 2017 |
|-------------------|--------|--------|--------|--------|--------|
| January | 3.5 | 4.216 | 2.922 | 3.061 | 3.467 |
| February | 3.904 | 4.599 | 2.937 | 5.2 | 2.83 |
| March | 3.716 | 4.486 | 5.498 | 3.173 | 3.893 |
| April | 3.564 | 4.72 | 3.406 | 2.768 | 4.41 |
| May | 3.862 | 4.894 | 2.873 | 3.383 | 3.546 |
| June | 3.589 | 3.202 | 3.416 | 2.705 | 3.159 |
| July | 3.287 | 2.963 | 3.309 | 2.814 | 3.848 |
| August | 2.947 | 2.639 | 2.545 | 2.574 | 3.492 |
| September | 2.412 | 2.717 | 2.48 | 2.503 | 3.313 |
| October | 3.096 | 2.624 | 2.758 | 2.433 | 2.749 |
| November | 2.634 | 2.652 | 2.448 | 2.413 | 2.82 |
| December | 4.015 | 3.502 | 3.193 | 3.072 | 2.99 |
| Annual Avg | 3.377 | 3.601 | 3.132 | 3.008 | 3.351 |
| Max 3-Mo Avg | 3.728 | 4.7 | 3.947 | 3.818 | 3.95 |
| Max : Avg Ratio | 1.10 | 1.31 | 1.26 | 1.27 | 1.18 |
| Existing EDUs | 856.0 | 885.0 | 919.0 | 949.0 | 962.0 |
| Flow/EDU (GPD) | 3945.1 | 4068.9 | 3408.1 | 3189.7 | 3483.4 |
| Flow/Capita (GPD) | 1127.2 | 1162.6 | 973.7 | 905.6 | 995.2 |
| Exist. Overload? | NO | NO | NO | NO | NO |

Monthly Average BOD5 Loads for Past Five Years (lbs/day)

| Month | 2013 | 2014 | 2015 | 2016 | 2017 |
|------------------|-------|-------|--------|--------|--------|
| January | 6.099 | 6.597 | 6.112 | 9.011 | 8.711 |
| February | 6.362 | 7.325 | 6.750 | 10.576 | 7.616 |
| March | 7.284 | 7.099 | 10.096 | 9.172 | 8.555 |
| April | 8.109 | 8.243 | 7.415 | 8.289 | 7.902 |
| May | 6.203 | 7.509 | 8.281 | 7.542 | 7.814 |
| June | 6.336 | 6.653 | 9.353 | 7.380 | 6.884 |
| July | 6.092 | 6.204 | 8.489 | 6.846 | 7.114 |
| August | 6.412 | 6.621 | 8.435 | 7.014 | 7.685 |
| September | 6.892 | 7.650 | 6.986 | 6.585 | 10.055 |
| October | 6.934 | 6.369 | 7.087 | 7.938 | 7.563 |
| November | 6.628 | 7.806 | 6.743 | 7.837 | 8.348 |
| December | 6.345 | 7.317 | 10.012 | 7.778 | 9.149 |
| Annual Avg | 6.641 | 7.133 | 7.980 | 7.997 | 8.098 |
| Max Mo Avg | 8.109 | 8.243 | 10.096 | 10.576 | 10.055 |
| Max : Avg Ratio | 1.22 | 1.16 | 1.27 | 1.32 | 1.24 |
| Existing EDUs | 856 | 885 | 919 | 949 | 962 |
| Load/EDU | 7.759 | 8.060 | 8.683 | 8.427 | 8.418 |
| Load/Capita | 2.217 | 2.303 | 2.481 | 2.406 | 2.405 |
| Exist. Overload? | NO | NO | NO | NO | NO |

Projected Flows for Next Five Years (MGD)

| | 2018 | 2019 | 2020 | 2021 | 2022 |
|--------------------|--------|--------|--------|--------|--------|
| New EDUs | 20.0 | 20.0 | 20.0 | 20.0 | 20.0 |
| New EDU Flow | 0.0723 | 0.0723 | 0.0723 | 0.0723 | 0.0723 |
| Proj. Annual Avg | 3.366 | 3.4383 | 3.5106 | 3.5829 | 3.6552 |
| Proj. Max 3-Mo Avg | 4.118 | 4.207 | 4.295 | 4.384 | 4.472 |
| Proj. Overload? | NO | NO | NO | NO | NO |

Projected BOD5 Loads for Next Five Years (lbs/day)

| | 2018 | 2019 | 2020 | 2021 | 2022 |
|------------------|---------|---------|---------|---------|---------|
| New EDUs | 20 | 20 | 20 | 20 | 20 |
| New EDU Load | 165.386 | 165.386 | 165.386 | 165.386 | 165.386 |
| Proj. Annual Avg | 8,263 | 8,429 | 8,594 | 8,760 | 8,925 |
| Proj. Max Avg | 10,256 | 10,462 | 10,667 | 10,872 | 11,077 |
| Proj. Overload? | NO | NO | NO | NO | NO |

Show Precipitation Data on Hydraulic Graph?

Total Monthly Precipitation for Past Five Years (Inches)

| Month | 2013 | 2014 | 2015 | 2016 | 2017 |
|-----------|------|------|------|------|------|
| January | | | | | |
| February | | | | | |
| March | | | | | |
| April | | | | | |
| May | | | | | |
| June | | | | | |
| July | | | | | |
| August | | | | | |
| September | | | | | |
| October | | | | | |
| November | | | | | |
| December | | | | | |

Appendix D – Summary of Inventory by NARUC Account Number

EXETER TOWNSHIP WASTEWATER SYSTEM

**SUMMARY OF ANALYSIS OF ORIGINAL COST OF WASTEWATER
SYSTEM AS OF APRIL 30, 2018**

| ACCOUNT | DESCRIPTION | ORIGINAL COST |
|----------------|--|-----------------------------|
| (1) | (2) | (3) |
| 353 20 | LAND AND LAND RIGHTS - COLLECTION | 336,068 94 |
| 353 30 | LAND AND LAND RIGHTS - PUMPING | 63,244 16 |
| 353.40 | LAND AND LAND RIGHTS - TREATMENT | 735,535.35 |
| 354.30 | STRUCTURES AND IMPROVEMENTS - PUMPING | 1,000,471 00 |
| 354.40 | STRUCTURES AND IMPROVEMENTS - TREATMENT | 36,457,669.12 |
| 355 30 | POWER GENERATION EQUIPMENT - PUMPING | 46,258 60 |
| 360 21 | COLLECTION SEWERS - FORCE - MAINS | 724,186.15 |
| 360.23 | COLLECTION SEWERS - FORCE - MANHOLES | 165,868.09 |
| 361.21 | COLLECTION SEWERS - GRAVITY - MAINS | 15,360,150.52 |
| 361 22 | COLLECTION SEWERS - GRAVITY - MAIN RELINING | 161,438.00 |
| 361 23 | COLLECTION SEWERS - GRAVITY - MANHOLES | 4,110,550.96 |
| 361.24 | COLLECTION SEWERS - GRAVITY - MANHOLES REPAIRS | 10,179 00 |
| 363.20 | SERVICES TO CUSTOMERS | 8,107,147 46 |
| 364.20 | FLOW MEASURING DEVICES | 28,200.34 |
| 365.20 | FLOW MEASURING INSTALLATIONS | 95,497 64 |
| 371.30 | PUMPING EQUIPMENT | 180,108 68 |
| 371 32 | PUMPING EQUIPMENT - GRINDER | 61,593 68 |
| 380.40 | TREATMENT AND DISPOSAL EQUIPMENT | 515,491.49 |
| 390 70 | COMPUTER AND SOFTWARE | 89,011 30 |
| 391.70 | TRANSPORTATION EQUIPMENT | 24,623.01 |
| 393 70 | TOOLS, SHOP AND GARAGE EQUIPMENT | 42,074 30 |
| 394 70 | LABORATORY EQUIPMENT | 80,810 59 |
| 396.70 | COMMUNICATION EQUIPMENT | 3,996.00 |
| 397 70 | MISCELLANEOUS EQUIPMENT | 4,170.76 |
| | TOWNSHIP TOTAL | <u>68,404,345.14</u> |

Appendix E – Inventory by Year Installed and NARUC Account Number

**EXETER TOWNSHIP WASTEWATER SYSTEM
ORIGINAL COST INVENTORY AS OF APRIL 30, 2018**

| <u>ACCOUNT</u> | <u>DESCRIPTION</u> | <u>YEAR</u> | <u>QUANTITY</u> | <u>UNIT COST</u> | <u>COST</u> |
|----------------|--|-------------|-----------------|------------------|---------------------|
| 353 20 | <u>LAND AND LAND RIGHTS - COLLECTION</u> | | | | |
| | COLLECTION SYSTEM ROW | 1966 | 81,716 LFT | | \$37,581 96 |
| | COLLECTION SYSTEM ROW | 1970 | 1,144 LFT | | \$630 28 |
| | COLLECTION SYSTEM ROW | 1975 | 8,794 LFT | | \$6,715 66 |
| | COLLECTION SYSTEM ROW | 1980 | 758 LFT | | \$1,069 89 |
| | COLLECTION SYSTEM ROW | 1985 | 7,017 LFT | | \$4,481 18 |
| | COLLECTION SYSTEM ROW | 1987 | 2,088 LFT | | \$1,818 17 |
| | COLLECTION SYSTEM ROW | 1990 | 6,592 LFT | | \$18,634 90 |
| | COLLECTION SYSTEM ROW | 1992 | 306 LFT | | \$867 41 |
| | COLLECTION SYSTEM ROW | 1995 | 55,392 LFT | | \$126,808 41 |
| | COLLECTION SYSTEM ROW | 2000 | 3,444 LFT | | \$15,285 86 |
| | COLLECTION SYSTEM ROW | 2005 | 4,920 LFT | | \$76,604 25 |
| | COLLECTION SYSTEM ROW | 2010 | 3,452 LFT | | \$45,449 75 |
| | COLLECTION SYSTEM ROW | 2012 | 11 LFT | | \$121 22 |
| | TOTAL LAND AND LAND RIGHTS - COLLECTION | | | | <u>\$336,068 94</u> |
| 353 30 | <u>LAND AND LAND RIGHTS - PUMPING</u> | | | | |
| | BUDDIES PLACE PUMP STATION | 1992 | 0 101 ACRES | | \$4,182 91 |
| | LINCOLN ROAD PUMP STATION | 1992 | 0 136 ACRES | | \$5,617 62 |
| | SOUTH BAUMSTOWN PUMP STATION | 1992 | 0.073 ACRES | | \$2,996 17 |
| | POTTSTOWN AVENUE PUMP STATION | 1993 | 0 910 ACRES | | \$34,194 59 |
| | PINELAND ROAD PUMP STATION | 1996 | 1,307 SQ FT | | \$92 99 |
| | GLENN OLEY PUMP STATION | 2006 | 0 063 ACRES | | \$16,159 88 |
| | TOTAL LAND AND LAND RIGHTS - PUMPING | | | | <u>\$63,244 16</u> |
| 353 40 | <u>LAND AND LAND RIGHTS - TREATMENT</u> | | | | |
| | WWTP - HOFFMAN PROPERTY | 1965 | 16 975 ACRES | | \$110,204 70 |
| | WWTP - LINCOLN NURSERY PROPERTY | 1967 | 5 370 ACRES | | \$36,966 92 |
| | WWTP - BRIGGS PROPERTY | 1977 | 17 038 ACRES | | \$53,000 00 |
| | WWTP - AVM NURSERY PROPERTY | 1984 | 51 630 ACRES | | \$150,000 00 |
| | WWTP - STANKIEWICZ PROPERTY | 1993 | 0.624 ACRES | | \$23,463 73 |
| | WWTP - HAMPTON PROPERTY | 1998 | 12 784 ACRES | | \$325,000 00 |
| | WWTP - BAKER PROPERTY | 2003 | 0 209 ACRES | | \$36,900 00 |
| | TOTAL LAND AND LAND RIGHTS - TREATMENT | | | | <u>\$735,535 35</u> |

**EXETER TOWNSHIP WASTEWATER SYSTEM
ORIGINAL COST INVENTORY AS OF APRIL 30, 2018**

| <u>ACCOUNT</u> | <u>DESCRIPTION</u> | <u>YEAR</u> | <u>QUANTITY</u> | <u>UNIT COST</u> | <u>COST</u> |
|----------------|--|-------------|-----------------|------------------|------------------------|
| 354 30 | <u>STRUCTURES AND IMPROVEMENTS - PUMPING</u> | | | | |
| | LINCOLN ROAD - PUMPING STATION | 1993 | | | \$469,996 03 |
| | BUDDIES PLACE - PUMPING STATION | 1993 | | | \$108,841 19 |
| | POTTSTOWN AVENUE - PUMPING STATION | 1993 | | | \$108,841 19 |
| | SOUTH BAUMSTOWN - PUMPING STATION | 1993 | | | \$108,841 19 |
| | PINELAND ROAD - PUMPING STATION | 1997 | | | \$55,313 20 |
| | GLEN OLEY - PUMPING STATION | 2004 | | | \$148,638 20 |
| | TOTAL STRUCTURES AND IMPROVEMENTS - PUMPING | | | | <u>\$1,000,471 00</u> |
| 354 40 | <u>STRUCTURES AND IMPROVEMENTS - TREATMENT</u> | | | | |
| | WWTP 1967 ORIGINAL PROJECT COSTS | 1967 | | | \$2,353,885 64 |
| | WWTP 1978 UPGRADE/EXPANSION COSTS | 1978 | | | \$4,885,804 76 |
| | WWTP 1986 RERATE PROJECT | 1986 | | | \$91,897 59 |
| | WWTP 1992 EXPANSION/UPGRADES COSTS | 1992 | | | \$23,110,970 29 |
| | WWTP 2002 IMPROVEMENTS | 2002 | | | \$389,734 00 |
| | BIOSOLIDS DRYER AND RELATED DEWATERING EQUIPMENT INSTALLEI | 2010 | | | \$5,436,302 84 |
| | GAS HEAT CONVERSIONS (GAS LINE TO GARAGE) | 2013 | | | \$10,935 00 |
| | ROOF OPERATIONS BUILDING | 2013 | | | \$42,668 00 |
| | PH III HEADWORKS UPGRADE | 2014 | | | \$19,880 00 |
| | PH III HEADWORKS UPGRADE | 2014 | | | \$11,827 00 |
| | NEW SEALS ROOF | 2016 | | | \$4,264 00 |
| | WWTP GARAGE ROOF REPLACEMENT | 2016 | | | \$99,500 00 |
| | TOTAL STRUCTURES AND IMPROVEMENTS - TREATMENT | | | | <u>\$36,457,669 12</u> |
| 355 30 | <u>POWER GENERATION EQUIPMENT - PUMPING</u> | | | | |
| | 1993 MARATHOD BRUSHLESS 680 FDF 4531 PORTABLE GENERATOR | 1993 | | | \$23,873 00 |
| | ONAN EMERGENCY PORTABLE GENERATOR W/TRAILER MDL 100DGB86690BJ A940531845 | 1993 | | | \$15,859 19 |
| | 125 K W GENERATOR DELCO AC MDL E5277 | 1993 | | | \$6,526 41 |
| | TOTAL POWER GENERATION EQUIPMENT - PUMPING | | | | <u>\$46,258 60</u> |

**EXETER TOWNSHIP WASTEWATER SYSTEM
ORIGINAL COST INVENTORY AS OF APRIL 30, 2018**

| <u>ACCOUNT</u> | <u>DESCRIPTION</u> | <u>YEAR</u> | <u>QUANTITY</u> | <u>UNIT COST</u> | <u>COST</u> |
|----------------|---|-------------|------------------|------------------|---------------------|
| 360 21 | <u>COLLECTION SEWERS - FORCE - MAINS</u> | | | | |
| | PVC - 3-INCH | 1990 | 466 FT | \$36 99 | \$17,235 23 |
| | DI - 6-INCH | 1995 | 2,707 FT | \$31 77 | \$86,013 91 |
| | DI - 8-INCH | 1995 | 6,338 FT | \$51.75 | \$327,960 55 |
| | PVC - 2-INCH | 2005 | 211 FT | \$52 47 | \$11,070 25 |
| | PVC - 8-INCH | 2005 | 4,104 FT | \$68 69 | \$281,906 21 |
| | TOTAL COLLECTION SEWERS - FORCE - MAINS | | <u>13,826 FT</u> | | <u>\$724,186 15</u> |
| 360 23 | <u>COLLECTION SEWERS - FORCE - MANHOLES</u> | | | | |
| | MANHOLES | 1990 | 2 | \$2,022 04 | \$4,044 08 |
| | MANHOLES | 1995 | 42 | \$2,337 83 | \$98,188 67 |
| | MANHOLES | 2005 | 20 | \$3,181 77 | \$63,635 34 |
| | TOTAL COLLECTION SEWERS - FORCE - MANHOLES | | <u>64</u> | | <u>\$165,868 09</u> |
| 361 21 | <u>COLLECTION SEWERS - GRAVITY - MAINS</u> | | | | |
| | ACP - 8-INCH | 1966 | 2,928 FT | \$7 72 | \$22,594 31 |
| | VCP - 8-INCH | 1966 | 224,980 FT | \$8 10 | \$1,822,426 06 |
| | DI - 8-INCH | 1966 | 1,466 FT | \$11.94 | \$17,499 45 |
| | RCP - 8-INCH | 1966 | 1,409 FT | \$5 86 | \$8,258 92 |
| | VCP - 10-INCH | 1966 | 9,706 FT | \$6 98 | \$67,721 46 |
| | VCP - 12-INCH | 1966 | 9,038 FT | \$8 97 | \$81,114 37 |
| | VCP - 15-INCH | 1966 | 20,949 FT | \$8 40 | \$176,072 80 |
| | VCP - 18-INCH | 1966 | 4,810 FT | \$12 03 | \$57,860 37 |
| | VCP - 20-INCH | 1966 | 3,502 FT | \$10 49 | \$36,751 83 |
| | VCP - 21-INCH | 1966 | 618 FT | \$11 22 | \$6,936 34 |
| | VCP - 27-INCH | 1966 | 10,234 FT | \$17 13 | \$175,303 97 |
| | RCP - 30-INCH | 1966 | 5,286 FT | \$18 64 | \$98,530 65 |
| | VCP - 8-INCH | 1970 | 8,962 FT | \$11 15 | \$99,929 53 |
| | VCP - 8-INCH | 1975 | 32,994 FT | \$16 73 | \$552,034 58 |
| | PVC - 8-INCH | 1975 | 1,127 FT | \$17 54 | \$19,769 28 |
| | VCP - 8-INCH | 1980 | 4,292 FT | \$26 70 | \$114,578 50 |
| | PVC - 8-INCH | 1980 | 1,147 FT | \$21 39 | \$24,537 71 |
| | VCP - 10-INCH | 1980 | 1,569 FT | \$28 85 | \$45,272 27 |
| | VCP - 8-INCH | 1985 | 6,067 FT | \$33 34 | \$202,269 86 |
| | PVC - 8-INCH | 1985 | 26,830 FT | \$30 44 | \$816,573 23 |
| | PVC - 10-INCH | 1985 | 2,751 FT | \$30 31 | \$83,371 79 |
| | VCP - 8-INCH | 1987 | 1,729 FT | \$37 63 | \$65,065 70 |

**EXETER TOWNSHIP WASTEWATER SYSTEM
ORIGINAL COST INVENTORY AS OF APRIL 30, 2018**

| <u>ACCOUNT</u> | <u>DESCRIPTION</u> | <u>YEAR</u> | <u>QUANTITY</u> | <u>UNIT COST</u> | <u>COST</u> |
|----------------|--|-------------|-------------------|------------------|------------------------|
| | PVC - 8-INCH | 1987 | 10,829 FT | \$31 81 | \$344,515 04 |
| | VCP - 8-INCH | 1990 | 5,963 FT | \$40 40 | \$240,879 18 |
| | PVC - 8-INCH | 1990 | 64,627 FT | \$35 75 | \$2,310,437 70 |
| | VCP - 8-INCH | 1992 | 222 FT | \$42 55 | \$9,445 86 |
| | PVC - 8-INCH | 1992 | 7,363 FT | \$38 76 | \$285,425 68 |
| | PVC - 2-INCH | 1995 | 2,678 FT | \$18 52 | \$49,603 62 |
| | VCP - 8-INCH | 1995 | 6,288 FT | \$39 97 | \$251,321 82 |
| | PVC - 8-INCH | 1995 | 127,757 FT | \$35 92 | \$4,589,612 10 |
| | PVC - 10-INCH | 1995 | 449 FT | \$35 54 | \$15,958 32 |
| | PVC - 12-INCH | 1995 | 1,227 FT | \$28 99 | \$35,566 14 |
| | PVC - 15-INCH | 1995 | 754 FT | \$49 95 | \$37,664 68 |
| | PVC - 8-INCH | 2000 | 9,298 FT | \$40 86 | \$379,942 51 |
| | PVC - 8-INCH | 2005 | 23,824 FT | \$53 69 | \$1,279,091 45 |
| | PVC - 8-INCH | 2010 | 4,817 FT | \$46 60 | \$224,452 48 |
| | PVC - 8-INCH | 2012 | 702 FT | \$73 33 | \$51,478 96 |
| | PVC - 12-INCH | 2012 | 3,862 FT | \$170 97 | \$660,282 00 |
| | TOTAL COLLECTION SEWERS - GRAVITY - MAINS | | <u>653,054 FT</u> | | <u>\$15,360,150 52</u> |
| 361 22 | <u>COLLECTION SEWERS - GRAVITY - MAIN RELINING</u> | | | | |
| | TRENCHLESS SEWER REHAB - SLIP LINE PROJECT | 2008 | | | \$148,625 00 |
| | MR REHAB INC | 2012 | | | \$12,813 00 |
| | TOTAL COLLECTION SEWERS - GRAVITY - MAIN RELINING | | | | <u>\$161,438 00</u> |
| 361 23 | <u>COLLECTION SEWERS - GRAVITY - MANHOLES</u> | | | | |
| | MANHOLES | 1966 | 1,374 | \$435 43 | \$598,282 49 |
| | MANHOLES | 1970 | 41 | \$590 12 | \$24,194 85 |
| | MANHOLES | 1975 | 159 | \$945 21 | \$150,289 15 |
| | MANHOLES | 1980 | 32 | \$1,383 21 | \$44,262 72 |
| | MANHOLES | 1985 | 166 | \$1,792 58 | \$297,567 45 |
| | MANHOLES | 1987 | 59 | \$1,882 74 | \$111,081 54 |
| | MANHOLES | 1990 | 329 | \$2,022 04 | \$665,251 72 |
| | MANHOLES | 1992 | 36 | \$2,130 15 | \$76,685 46 |
| | MANHOLES | 1995 | 648 | \$2,337 83 | \$1,514,910 92 |
| | MANHOLES | 2000 | 43 | \$2,658 31 | \$114,307 32 |
| | MANHOLES | 2005 | 111 | \$3,181 77 | \$353,176 16 |
| | MANHOLES | 2010 | 23 | \$3,759 92 | \$86,478 18 |
| | MANHOLES | 2012 | 17 | \$4,356 65 | \$74,063 00 |
| | TOTAL COLLECTION SEWERS - GRAVITY - MANHOLES | | <u>3,038</u> | | <u>\$4,110,550 96</u> |

**EXETER TOWNSHIP WASTEWATER SYSTEM
ORIGINAL COST INVENTORY AS OF APRIL 30, 2018**

| <u>ACCOUNT</u> | <u>DESCRIPTION</u> | <u>YEAR</u> | <u>QUANTITY</u> | <u>UNIT COST</u> | <u>COST</u> |
|----------------|---|-------------|-----------------|------------------|-----------------------|
| 361 24 | <u>COLLECTION SEWERS - GRAVITY - MANHOLES REPAIRS</u> | | | | |
| | MANHOLE REPAIRS | 2015 | | | \$10,179 00 |
| | TOTAL COLLECTION SEWERS - GRAVITY - MANHOLES REPAIRS | | | | <u>\$10,179 00</u> |
| 363 20 | <u>SERVICES TO CUSTOMERS</u> | | | | |
| | SERVICES | 1966 | 3,538 | \$270 93 | \$958,567 95 |
| | SERVICES | 1970 | 137 | \$367 18 | \$50,304 30 |
| | SERVICES | 1975 | 523 | \$588 13 | \$307,593 89 |
| | SERVICES | 1980 | 83 | \$860 66 | \$71,435 10 |
| | SERVICES | 1985 | 504 | \$1,115 38 | \$562,151 53 |
| | SERVICES | 1987 | 192 | \$1,171 48 | \$224,924 42 |
| | SERVICES | 1990 | 1,082 | \$1,258 16 | \$1,361,328 35 |
| | SERVICES | 1992 | 116 | \$1,325 43 | \$153,749 62 |
| | SERVICES | 1995 | 2,152 | \$1,454 65 | \$3,130,400 29 |
| | SERVICES | 2000 | 143 | \$1,654 06 | \$236,530 49 |
| | SERVICES | 2005 | 428 | \$1,979 77 | \$847,339 97 |
| | SERVICES | 2010 | 74 | \$2,339 51 | \$173,123 46 |
| | SERVICES | 2012 | 12 | \$2,474 84 | \$29,698 09 |
| | TOTAL SERVICES TO CUSTOMERS | | <u>8,984</u> | | <u>\$8,107,147 46</u> |
| 364 20 | <u>FLOW MEASURING DEVICES</u> | | | | |
| | METER @ WILDLIFE SANCTUARY - 8" | 1991 | | | \$3,672 99 |
| | METER @ SOUTH OF PARKVIEW DRIVE - 8" | 2006 | | | \$5,888 17 |
| | METER @ BINGAMAN STREET - 15" | 2010 | | | \$10,026 46 |
| | METER @ OLEY TURNPIKE ROAD - 10" | 2011 | | | \$8,612 72 |
| | TOTAL FLOW MEASURING DEVICES | | | | <u>\$28,200 34</u> |

**EXETER TOWNSHIP WASTEWATER SYSTEM
ORIGINAL COST INVENTORY AS OF APRIL 30, 2018**

| <u>ACCOUNT</u> | <u>DESCRIPTION</u> | <u>YEAR</u> | <u>QUANTITY</u> | <u>UNIT COST</u> | <u>COST</u> |
|----------------|--|-------------|-----------------|------------------|---------------------|
| 365 20 | <u>FLOW MEASURING INSTALLATIONS</u> | | | | |
| | CONCRETE METERING VAULT @ WILDLIFE SANCTUARY | 1991 | | | \$23,874 41 |
| | CONCRETE METERING VAULT @ BINGAMAN STREET | 1991 | | | \$23,874 41 |
| | CONCRETE METERING VAULT @ OLEY TURNPIKE ROAD | 1991 | | | \$23,874 41 |
| | CONCRETE METERING VAULT @ SOUTH OF PARK VIEW DRIVE | 1991 | | | \$23,874 41 |
| | TOTAL FLOW MEASURING INSTALLATIONS | | | | <u>\$95,497 64</u> |
| 371 30 | <u>PUMPING EQUIPMENT</u> | | | | |
| | LINCOLN ROAD - PUMP (DUPLEX) | 1993 | | | \$24,736 63 |
| | BUDDIES PLACE - PUMP (DUPLEX) | 1993 | | | \$14,841 98 |
| | POTTSTOWN AVENUE - PUMP (DUPLEX) | 1993 | | | \$14,841 98 |
| | SOUTH BAUMSTOWN - PUMP (DUPLEX) | 1993 | | | \$14,841 98 |
| | PINELAND ROAD - PUMP (DUPLEX) | 1997 | | | \$8,296 98 |
| | GLEN OLEY - PUMP (DUPLEX) | 2006 | | | \$22,080 65 |
| | 1993 GORMAN RUPP SEWER PUMP W/TRAILER 1027794 | 1993 | | | \$11,005 80 |
| | PUMP SYSTEM-SEWER | 2012 | | | \$6,487 80 |
| | REBUILD PUMP SHAFT | 2012 | | | \$3,520 00 |
| | REBUILD PUMP SHAFT | 2012 | | | \$3,520 00 |
| | REBUILD PUMP SHAFT | 2012 | | | \$3,520 00 |
| | NEW DRIVE FOR RAW PUMPS (3 PUMPS) | 2013 | | | \$18,316 00 |
| | NEW PUMP | 2014 | | | \$18,201 00 |
| | PUMP POWER BOARD | 2015 | | | \$1,492 00 |
| | PUMP -SEWER | 2015 | | | \$1,874 00 |
| | PUMP INSTALLATION | 2015 | | | \$87 86 |
| | BACK UP MOTOR RAW WASTEWATER PUMPS | 2016 | | | \$6,085 00 |
| | TSURUMI CHOPPER PUMPS | 2017 | | | \$6,359 02 |
| | TOTAL PUMPING EQUIPMENT | | | | <u>\$180,108 68</u> |
| 371 32 | <u>PUMPING EQUIPMENT - GRINDER</u> | | | | |
| | GRINDER PUMPS - RESIDENTIAL (18) | 1993 | 18 | \$2,137 25 | \$38,470 41 |
| | GRINDER PUMPS - COMMERCIAL (1) | 2011 | 1 | \$7,441 39 | \$7,441 39 |
| | GRINDER PUMPS - COMMERCIAL (1) | 2012 | 1 | \$7,636 65 | \$7,636 65 |
| | GRINDER PUMPS - COMMERCIAL (1) | 2014 | 1 | \$8,045 23 | \$8,045 23 |
| | TOTAL PUMPING EQUIPMENT - GRINDER | | <u>21</u> | | <u>\$61,593 68</u> |

**EXETER TOWNSHIP WASTEWATER SYSTEM
ORIGINAL COST INVENTORY AS OF APRIL 30, 2018**

| <u>ACCOUNT</u> | <u>DESCRIPTION</u> | <u>YEAR</u> | <u>QUANTITY</u> | <u>UNIT COST</u> | <u>COST</u> |
|----------------|---|-------------|-----------------|------------------|---------------------|
| 380 40 | <u>TREATMENT AND DISPOSAL EQUIPMENT</u> | | | | |
| | REPLACEMENT CHAIN/CLARIFIER | 2008 | | | \$8,391 00 |
| | ADV BIOSOLIDS | 2012 | | | \$150 97 |
| | SLUDGE DRYER | 2012 | | | \$26,014 07 |
| | TANK COMPRESSOR-SEWER | 2012 | | | \$3,845 00 |
| | CARBON FOR AIR SCRUBBER | 2013 | | | \$14,820 00 |
| | DEWATERING & DIGESTER | 2013 | | | \$5,645 00 |
| | HOSE CONNECTORS | 2013 | | | \$77,279 64 |
| | MUFFIN MONSTER PUMP/GRINDER (2) | 2013 | | | \$18,718 00 |
| | PUMP CONTROL UPGRADE | 2013 | | | \$3,576 00 |
| | SLUDGE DRYER | 2013 | | | \$11,204 00 |
| | BLOWER SYSTEM | 2014 | | | \$4,280 00 |
| | BLOWER/AERATION UPGRADE | 2014 | | | \$11,928 00 |
| | DEMOBILIZATION OF DIGESTER | 2014 | | | \$4,000 00 |
| | DEWATER/DISPOSAL DIGESTER | 2014 | | | \$48,050 00 |
| | DEWATER/DISPOSAL DIGESTER | 2014 | | | \$11,953 00 |
| | DEWATER/DISPOSAL DIGESTER | 2014 | | | \$55,590 00 |
| | DIGESTER CLEANING | 2014 | | | \$37,962 00 |
| | DLC UPGRADE | 2014 | | | \$14,225 00 |
| | DLC UPGRADE | 2014 | | | \$37,793 30 |
| | MOBILIZATION OF DIGESTER | 2014 | | | \$5,750 00 |
| | SLUDGE DRYER | 2014 | | | \$3,232 50 |
| | ACTUATOR/VALVES AERATION TANKS | 2015 | | | \$38,425 00 |
| | ACTUATOR/VALVES AERATION TANKS | 2015 | | | \$5,320 00 |
| | AIR FLOW METER | 2015 | | | \$3,608 00 |
| | SANDBLASTING #1 TANK | 2015 | | | \$3,889 56 |
| | SANDBLASTING SEWER | 2015 | | | \$5,059 95 |
| | BLOWER FOR DIGESTER | 2016 | | | \$4,417 00 |
| | BLOWER/AERATION CONTROL | 2016 | | | \$2,386 00 |
| | COLLECTOR CHAIN PRIMARY | 2016 | | | \$9,191 00 |
| | DRYER PARTS | 2016 | | | \$9,750 00 |
| | DRYER PARTS | 2016 | | | \$10,175 00 |
| | COLLECTOR CHAIN AND EQUIPMENT | 2017 | | | \$9,190 50 |
| | WHEEL, INLET CONES & DRIVE SHAFT | 2017 | | | \$6,899 00 |
| | FLAME BANK ASSEMBLY | 2017 | | | \$2,773 00 |
| | TOTAL TREATMENT AND DISPOSAL EQUIPMENT | | | | <u>\$515,491 49</u> |

**EXETER TOWNSHIP WASTEWATER SYSTEM
ORIGINAL COST INVENTORY AS OF APRIL 30, 2018**

| <u>ACCOUNT</u> | <u>DESCRIPTION</u> | <u>YEAR</u> | <u>QUANTITY</u> | <u>UNIT COST</u> | <u>COST</u> |
|----------------|--|-------------|-----------------|------------------|--------------------|
| 390 70 | <u>COMPUTER AND SOFTWARE</u> | | | | |
| | LENOVO COMPUTER | 2011 | | | \$2,332 00 |
| | COMPUTER - LENOVO | 2012 | | | \$1,578 00 |
| | SCADA UPGRADE | 2012 | | | \$13,820 85 |
| | ALARM SOFTWARE | 2013 | | | \$2,380 00 |
| | COMPUTER | 2013 | | | \$2,290 45 |
| | SCADA UPGRADE | 2013 | | | \$9,900 00 |
| | SCADA UPDATE | 2014 | | | \$7,952 00 |
| | SCADA UPGRADE | 2014 | | | \$23,856 00 |
| | COMPUTER | 2015 | | | \$1,512 00 |
| | SCADA UPGRADE | 2015 | | | \$3,976 00 |
| | SOFTWARE - HAULED WASTE | 2015 | | | \$6,595 00 |
| | COMPUTER - ETHERNET SWITCH | 2016 | | | \$89 00 |
| | COMPUTER - NEW SERVER | 2016 | | | \$5,350 00 |
| | SOFTWARE - SEPTAGE PROGRAM | 2016 | | | \$7,380 00 |
| | TOTAL COMPUTER AND SOFTWARE | | | | <u>\$89,011 30</u> |
| 391 70 | <u>TRANSPORTATION EQUIPMENT</u> | | | | |
| | 2001 - FORD ECONOLINE - E150 W/RADIO - VAN 1FTRE142X1HB34687 | 2001 | | | \$21,441 01 |
| | FUEL SYSTEM REPLACEMENT | 2014 | | | \$3,182 00 |
| | TOTAL TRANSPORTATION EQUIPMENT | | | | <u>\$24,623 01</u> |
| 393 70 | <u>TOOLS, SHOP AND GARAGE EQUIPMENT</u> | | | | |
| | TWO [2] MSA MODEL 401 SCBA'S | 1997 | | | \$2,134 65 |
| | TWO (2) HOMELITE TRASH PUMPS | 2000 | | | \$1,680 67 |
| | RESCUE SYSTEM, TRIPOD, HARNESSSES | 2004 | | | \$1,621 78 |
| | CHLORINE LEAK REPAIR KIT | 2006 | | | \$1,099 71 |
| | TARGET CONCRETE SAW | 2006 | | | \$5,075 56 |
| | TWO [2] MSA HIP AIR SCBA'S | 2006 | | | \$2,711 05 |
| | GAS MASS FLOWMETER | 2012 | | | \$4,995 67 |
| | PORTABLE SAMPLER | 2013 | | | \$7,225 26 |
| | SAW/CART | 2013 | | | \$1,587 70 |
| | SPECTROPHOMETER | 2013 | | | \$3,951 25 |
| | PRO PIPE LOCATOR | 2014 | | | \$1,930 00 |
| | PRO PIPER | 2014 | | | \$1,980 00 |
| | 4" SUBARU TRASH PUMP | 2015 | | | \$1,874 00 |
| | FUEL DISPENSER TANK MONITOR | 2015 | | | \$3,272 00 |
| | HOSE SEWER | 2015 | | | \$661 00 |
| | HOSE SEWER | 2015 | | | \$274 00 |
| | TOTAL TOOLS, SHOP AND GARAGE EQUIPMENT | | | | <u>\$42,074 30</u> |

**EXETER TOWNSHIP WASTEWATER SYSTEM
ORIGINAL COST INVENTORY AS OF APRIL 30, 2018**

| <u>ACCOUNT</u> | <u>DESCRIPTION</u> | <u>YEAR</u> | <u>QUANTITY</u> | <u>UNIT COST</u> | <u>COST</u> |
|----------------|--|-------------|-----------------|------------------|--------------------|
| 394 70 | <u>LABORATORY EQUIPMENT</u> | | | | |
| | CENTRIFUGE | 2002 | | | \$2,314 89 |
| | HONEYWELL LUMIDOR MICROMAX PRO O2/ GAS METER 16512 | 2002 | | | \$992 87 |
| | FISHER INCUBATOR 232450-1022 | 2003 | | | \$3,318 35 |
| | TWO [2] FISHER LABORATORY OVEN 802N0010 / 611251-101 | 2003 | | | \$2,807 84 |
| | DENVER INSTRUMENT IR 35 HEATED SCALE | 2004 | | | \$2,127.15 |
| | METLAR BALANCE MDL H 31 AR 729375 | 2004 | | | \$2,978 01 |
| | HACH DR 2500 SPECTROPHOTOMETER | 2005 | | | \$1,871 89 |
| | TWO [2] MICROSCOPES | 2005 | | | \$3,195 82 |
| | ACCUMET PH METER 94101348 | 2006 | | | \$1,518 42 |
| | HOSHIZAKI ICE MACHINE KM-150BAF / L04650B | 2006 | | | \$3,137 93 |
| | MILLIPORE UV STERILIZER | 2006 | | | \$1,607 74 |
| | TWO (2) SIGMA PORTABLE WASTEWATER SAMPLER | 2006 | | | \$3,751 38 |
| | HACH DR 3900 SPECTROPHOTOMETER | 2007 | | | \$3,408 39 |
| | LAB REFRIGERATOR 125052501140917 | 2007 | | | \$2,196 51 |
| | MILLIPORE INCUBATOR | 2007 | | | \$1,345 42 |
| | TWO [2] YSI MODEL 58D D O METER 01H0366 / 90F017203 | 2007 | | | \$2,429 34 |
| | CAMERA/CABLE | 2008 | | | \$8,800 00 |
| | GAS METER | 2008 | | | \$2,478 00 |
| | LABORATORY DISHWASHER | 2008 | | | \$7,565 64 |
| | NEW SAMPLER | 2011 | | | \$5,173 00 |
| | GLS SAMPLER | 2014 | | | \$2,367 00 |
| | INCUBATOR | 2014 | | | \$3,574 00 |
| | NEW PUSH CAM | 2014 | | | \$9,570 00 |
| | GLS SAMPLER | 2015 | | | \$2,281 00 |
| | TOTAL LABORATORY EQUIPMENT | | | | <u>\$80,810 59</u> |
| 396 70 | <u>COMMUNICATION EQUIPMENT</u> | | | | |
| | RADIOS (BASE STATION) | 2011 | | | \$3,996 00 |
| | TOTAL COMMUNICATION EQUIPMENT | | | | <u>\$3,996 00</u> |

**EXETER TOWNSHIP WASTEWATER SYSTEM
ORIGINAL COST INVENTORY AS OF APRIL 30, 2018**

| <u>ACCOUNT</u> | <u>DESCRIPTION</u> | <u>YEAR</u> | <u>QUANTITY</u> | <u>UNIT COST</u> | <u>COST</u> |
|------------------------------------|--------------------------------|-------------|-----------------|------------------|-----------------------------------|
| 397.70 | <u>MISCELLANEOUS EQUIPMENT</u> | | | | |
| | FURNACE | 2002 | | | \$911.76 |
| | WASHER/DRYER | 2008 | | | \$993.00 |
| | REFRIGERATOR | 2014 | | | \$2,266.00 |
| | TOTAL MISCELLANEOUS EQUIPMENT | | | | <u>\$4,170.76</u> |
| TOTAL WASTEWATER SYSTEM | | | | | <u>\$68,404,345.14</u> |

Appendix F - The NARUC Wastewater Systems Account Numbers

Appendix G - Operation and Maintenance Expenses

Business-type activities increased Exeter Township's net position by \$533,455 in 2016.

| | Sewer | | Country Club | | Totals | |
|---|------------------------|------------------------|-------------------|-------------------|------------------------|------------------------|
| | 2016 | 2015 | 2016 | 2015 | 2016 | 2015 |
| Operating Revenues: | | | | | | |
| Sewer charges | \$ 5,421,493 | \$ 5,178,802 | \$ - | \$ - | \$ 5,421,493 | \$ 5,178,802 |
| Tapping fees | 31,420 | 38,140 | - | - | 31,420 | 38,140 |
| Charges for services | - | - | 775,066 | 1,815,251 | 775,066 | 1,815,251 |
| Intergovernmental revenue | - | 4,697 | - | - | - | 4,697 |
| Lease rental revenue | - | - | 301,219 | 116,739 | 301,219 | 116,739 |
| Miscellaneous | 88,565 | 131,913 | - | - | 88,565 | 131,913 |
| Total Operating Revenues | 5,541,478 | 5,353,552 | 1,076,285 | 1,931,990 | 6,617,763 | 7,285,542 |
| Operating Expenditures: | | | | | | |
| Wastewater collection and treatment | 2,916,637 | 3,021,637 | - | - | 2,916,637 | 3,021,637 |
| Culture and recreation expenses | - | - | 730,900 | 2,042,902 | 730,900 | 2,042,902 |
| Total expenditures | 2,916,637 | 3,021,637 | 730,900 | 2,042,902 | 3,647,537 | 5,064,539 |
| Operating Income | 2,624,841 | 2,331,915 | 345,385 | (110,912) | 2,970,226 | 2,221,003 |
| Nonoperating Revenues (Expenses) | | | | | | |
| Interest income | 377,652 | 365,891 | 1,115 | 1,387 | 378,767 | 367,278 |
| Debt service | | | | | | |
| Interest | (787,905) | (872,863) | - | - | (787,905) | (872,863) |
| Fiscal agent fees | (1,443) | (1,443) | - | - | (1,443) | (1,443) |
| Total Nonoperating Revenues (Expenses) | (411,696) | (508,415) | 1,115 | 1,387 | (410,581) | (507,028) |
| Income before Other Financing Sources (Uses) | 2,213,145 | 1,823,500 | 346,500 | (109,525) | 2,559,645 | 1,713,975 |
| Other Financing Sources (Uses) | | | | | | |
| Transfers In | - | - | 20,673 | - | 20,673 | - |
| Transfers out | (1,729,971) | (242,622) | (316,892) | (285,406) | (2,046,863) | (528,028) |
| Total Other Financing Sources (Uses) | (1,729,971) | (242,622) | (296,219) | (285,406) | (2,026,190) | (528,028) |
| Change in Net Position | 483,174 | 1,580,878 | 50,281 | (394,931) | 533,455 | 1,185,947 |
| Fund balances at beginning of year | (11,228,202) | (12,809,081) | 220,410 | 615,342 | (11,007,792) | (12,193,739) |
| Fund balances at end of year | \$ (10,745,028) | \$ (11,228,203) | \$ 270,691 | \$ 220,411 | \$ (10,474,337) | \$ (11,007,792) |

A FINANCIAL ANALYSIS OF THE TOWNSHIP'S FUNDS

In reviewing individual funds of the Township, certain funds experienced significant changes to be considered in analyzing the Township's funds:

- Capital Projects Fund – During 2016, \$76,355 was expended to replace windows in the Township building, District Justice building, and Dunn Community Center. \$66,921 was expended for pump replacements at the Sewer Treatment facility.
- Apparatus Fund - \$97,688 was expended to refurbish a 1995 Seagrave Aerial.
- Park Improvement Fund - \$9,818 was expended for skate park equipment at Pineland Park. \$6,069 was expended for field repairs and other improvements at Community Park.

**2018 BUDGET
EXETER TOWNSHIP
FUND 08 SEWER**

| Organization/Object | 2017 Budget | 2017 Projected | 2018 Budget | % Change | 2019 Outlook | % Change | 2020 Outlook | % Change | 2021 Outlook | % Change | 2022 Outlook |
|--|-----------------------|-----------------------|-----------------------|---------------|-----------------------|----------------|-----------------------|-------------|-----------------------|-------------|-----------------------|
| 08 - Sewer Fund | \$375,000.00 | \$186,576.49 | \$188,423.51 | -49.8% | \$0.00 | -100.0% | \$0.00 | N/A | \$0.00 | N/A | \$0.00 |
| 34100 - Interest | \$375,000.00 | \$186,576.49 | \$188,423.51 | -49.8% | \$0.00 | -100.0% | \$0.00 | N/A | \$0.00 | N/A | \$0.00 |
| 08600571 - WWT Administration | \$6,586,733.00 | \$6,244,826.39 | \$6,593,248.00 | 0.1% | \$6,593,248.00 | 0.0% | \$6,593,248.00 | 0.0% | \$6,593,248.00 | 0.0% | \$6,593,248.00 |
| 31901 - Penalties & Interest CY | \$90,000.00 | \$90,000.00 | \$90,000.00 | 0.0% | \$90,000.00 | 0.0% | \$90,000.00 | 0.0% | \$90,000.00 | 0.0% | \$90,000.00 |
| 36401 - Sewer Rents | \$5,141,248.00 | \$4,500,000.00 | \$5,141,248.00 | 0.0% | \$5,141,248.00 | 0.0% | \$5,141,248.00 | 0.0% | \$5,141,248.00 | 0.0% | \$5,141,248.00 |
| 36402 - St Lawrence Treatment Fee | \$117,312.00 | \$130,000.00 | \$125,000.00 | 6.6% | \$125,000.00 | 0.0% | \$125,000.00 | 0.0% | \$125,000.00 | 0.0% | \$125,000.00 |
| 36403 - Industrial Surcharge | \$400,000.00 | \$400,000.00 | \$400,000.00 | 0.0% | \$400,000.00 | 0.0% | \$400,000.00 | 0.0% | \$400,000.00 | 0.0% | \$400,000.00 |
| 36404 - Septage/Sludge Receiving | \$701,173.00 | \$1,000,000.00 | \$700,000.00 | -0.2% | \$700,000.00 | 0.0% | \$700,000.00 | 0.0% | \$700,000.00 | 0.0% | \$700,000.00 |
| 36405 - Misc Service Charges | \$15,000.00 | \$15,000.00 | \$15,000.00 | 0.0% | \$15,000.00 | 0.0% | \$15,000.00 | 0.0% | \$15,000.00 | 0.0% | \$15,000.00 |
| 38010 - Miscellaneous | \$0.00 | \$326.39 | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 |
| 38011 - Sewer Certification Fees | \$13,000.00 | \$13,000.00 | \$13,000.00 | 0.0% | \$13,000.00 | 0.0% | \$13,000.00 | 0.0% | \$13,000.00 | 0.0% | \$13,000.00 |
| 38012 - Sewer Tapping Fees | \$5,000.00 | \$2,500.00 | \$5,000.00 | 0.0% | \$5,000.00 | 0.0% | \$5,000.00 | 0.0% | \$5,000.00 | 0.0% | \$5,000.00 |
| 38013 - St Lawrence Addl Rent | \$0.00 | \$0.00 | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 |
| 38014 - Sewer Capacity Fees | \$50,000.00 | \$40,000.00 | \$50,000.00 | 0.0% | \$50,000.00 | 0.0% | \$50,000.00 | 0.0% | \$50,000.00 | 0.0% | \$50,000.00 |
| 39311 - St Lawrence Bond Revenue | \$54,000.00 | \$54,000.00 | \$54,000.00 | 0.0% | \$54,000.00 | 0.0% | \$54,000.00 | 0.0% | \$54,000.00 | 0.0% | \$54,000.00 |
| TOTAL REVENUE | \$6,961,733.00 | \$6,431,402.88 | \$6,781,671.51 | -2.6% | \$6,593,248.00 | -2.8% | \$6,593,248.00 | 0.0% | \$6,593,248.00 | 0.0% | \$6,593,248.00 |
| 08600571 - WWT Administration | \$3,851,747.50 | \$4,582,331.19 | \$4,300,696.31 | 11.7% | \$4,329,719.56 | 0.7% | \$4,359,717.23 | 0.7% | \$4,390,723.93 | 0.7% | \$4,422,775.58 |
| 41140 - Wages | \$415,722.00 | \$483,841.14 | \$493,721.49 | 18.8% | \$508,533.13 | 3.0% | \$523,789.13 | 3.0% | \$539,502.80 | 3.0% | \$555,687.89 |
| 41920 - FICA | \$31,802.73 | \$37,013.85 | \$37,769.69 | 18.8% | \$38,902.78 | 3.0% | \$40,069.86 | 3.0% | \$41,271.96 | 3.0% | \$42,510.12 |
| 41940 - Unemployment Compensation | \$4,157.22 | \$2,488.12 | \$1,520.00 | -63.4% | \$1,565.60 | 3.0% | \$1,612.57 | 3.0% | \$1,660.95 | 3.0% | \$1,710.77 |
| 41950 - Workers Comp Insurance | \$4,157.22 | \$2,790.44 | \$2,708.97 | -34.8% | \$2,790.24 | 3.0% | \$2,873.95 | 3.0% | \$2,960.16 | 3.0% | \$3,048.97 |
| 41960 - Health & Hosp Insurance | \$251,851.60 | \$109,207.56 | \$121,365.30 | -51.8% | \$125,006.26 | 3.0% | \$128,756.45 | 3.0% | \$132,619.14 | 3.0% | \$136,597.71 |
| 41961 - Union Health & Welfare | \$0.00 | \$20,409.10 | \$67,801.35 | N/A | \$69,835.39 | 3.0% | \$71,930.45 | 3.0% | \$74,088.37 | 3.0% | \$76,311.02 |
| 41970 - Non-Uniformed Pension | \$58,157.73 | \$6,500.00 | \$24,961.54 | -57.1% | \$25,710.39 | 3.0% | \$26,481.70 | 3.0% | \$27,276.15 | 3.0% | \$28,094.43 |
| 41971 - Union Pension | \$0.00 | \$5,500.00 | \$10,935.00 | N/A | \$11,263.05 | 3.0% | \$11,600.94 | 3.0% | \$11,948.97 | 3.0% | \$12,307.44 |
| 41980 - LT Disability Insurance | \$1,000.00 | \$409.58 | \$471.00 | -52.9% | \$485.13 | 3.0% | \$499.68 | 3.0% | \$514.67 | 3.0% | \$530.11 |
| 41985 - Life Insurance | \$1,000.00 | \$792.88 | \$912.42 | -8.8% | \$939.79 | 3.0% | \$967.99 | 3.0% | \$997.03 | 3.0% | \$1,026.94 |
| 41990 - Training | \$0.00 | \$9,000.00 | \$9,000.00 | N/A | \$9,450.00 | 5.0% | \$9,922.50 | 5.0% | \$10,418.63 | 5.0% | \$10,939.56 |
| 42100 - Office Supplies | \$24,000.00 | \$4,000.00 | \$4,000.00 | -83.3% | \$4,200.00 | 5.0% | \$4,410.00 | 5.0% | \$4,630.50 | 5.0% | \$4,862.03 |
| 42160 - Other Supplies | \$0.00 | \$18,000.00 | \$18,000.00 | N/A | \$18,900.00 | 5.0% | \$19,845.00 | 5.0% | \$20,837.25 | 5.0% | \$21,879.11 |
| 42410 - General Expense | \$0.00 | \$1,000.00 | \$1,000.00 | N/A | \$1,050.00 | 5.0% | \$1,102.50 | 5.0% | \$1,157.63 | 5.0% | \$1,215.51 |
| 42600 - Equipment Maintenance/Repair | \$0.00 | \$2,000.00 | \$2,000.00 | N/A | \$2,100.00 | 5.0% | \$2,205.00 | 5.0% | \$2,315.25 | 5.0% | \$2,431.01 |
| 43110 - Auditing Services | \$0.00 | \$8,500.00 | \$8,500.00 | N/A | \$8,925.00 | 5.0% | \$9,371.25 | 5.0% | \$9,839.81 | 5.0% | \$10,331.80 |
| 43120 - Consulting Services | \$0.00 | \$10,000.00 | \$10,000.00 | N/A | \$10,500.00 | 5.0% | \$11,025.00 | 5.0% | \$11,576.25 | 5.0% | \$12,155.06 |
| 43130 - Engineering Reviews/Inspection | \$20,000.00 | \$35,000.00 | \$35,000.00 | 75.0% | \$36,750.00 | 5.0% | \$38,587.50 | 5.0% | \$40,516.88 | 5.0% | \$42,542.72 |
| 43140 - Legal General Counsel | \$26,250.00 | \$275,000.00 | \$50,000.00 | 90.5% | \$50,000.00 | 0.0% | \$50,000.00 | 0.0% | \$50,000.00 | 0.0% | \$50,000.00 |
| 43142 - Legal Special Counsel | \$0.00 | \$150,000.00 | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 |
| 43180 - Dues/Subscriptions/Publication | \$64,813.00 | \$8,000.00 | \$8,000.00 | -87.7% | \$8,400.00 | 5.0% | \$8,820.00 | 5.0% | \$9,261.00 | 5.0% | \$9,724.05 |
| 43196 - Meter Readings | \$0.00 | \$3,400.00 | \$3,400.00 | N/A | \$3,570.00 | 5.0% | \$3,748.50 | 5.0% | \$3,935.93 | 5.0% | \$4,132.72 |
| 43197 - DP IT/Software Maint | \$0.00 | \$12,210.00 | \$11,960.00 | N/A | \$12,199.20 | 2.0% | \$12,443.18 | 2.0% | \$12,692.05 | 2.0% | \$12,945.89 |
| 43200 - Communications | \$0.00 | \$5,000.00 | \$5,000.00 | N/A | \$5,250.00 | 5.0% | \$5,512.50 | 5.0% | \$5,788.13 | 5.0% | \$6,077.53 |
| 43410 - Advertising | \$0.00 | \$800.00 | \$800.00 | N/A | \$840.00 | 5.0% | \$882.00 | 5.0% | \$926.10 | 5.0% | \$972.41 |
| 43511 - Vehicle Insurance | \$0.00 | \$5,669.00 | \$5,669.00 | N/A | \$5,669.00 | 0.0% | \$5,669.00 | 0.0% | \$5,669.00 | 0.0% | \$5,669.00 |
| 43512 - Casualty Insurance | \$0.00 | \$92,680.00 | \$92,680.00 | N/A | \$92,680.00 | 0.0% | \$92,680.00 | 0.0% | \$92,680.00 | 0.0% | \$92,680.00 |
| 43530 - Bonding | \$0.00 | \$1,528.50 | \$1,528.50 | N/A | \$1,528.50 | 0.0% | \$1,528.50 | 0.0% | \$1,528.50 | 0.0% | \$1,528.50 |
| 43600 - Utilities | \$0.00 | \$500.00 | \$500.00 | N/A | \$525.00 | 5.0% | \$551.25 | 5.0% | \$578.81 | 5.0% | \$607.75 |
| 43840 - Equipment Rental | \$3,045.00 | \$4,000.00 | \$4,000.00 | 31.4% | \$4,200.00 | 5.0% | \$4,410.00 | 5.0% | \$4,630.50 | 5.0% | \$4,862.03 |
| 43901 - Credit Card Fees | \$0.00 | \$20,051.52 | \$20,452.55 | N/A | \$20,861.60 | 2.0% | \$21,278.83 | 2.0% | \$21,704.41 | 2.0% | \$22,138.50 |
| 47000 - Capital Purchase | \$1,000.00 | \$1,000.00 | \$1,000.00 | 0.0% | \$1,050.00 | 5.0% | \$1,102.50 | 5.0% | \$1,157.63 | 5.0% | \$1,215.51 |
| 49003 - Fiscal Agent Fees | \$250.00 | \$1,500.00 | \$1,500.00 | 500.0% | \$1,500.00 | 0.0% | \$1,500.00 | 0.0% | \$1,500.00 | 0.0% | \$1,500.00 |
| 49005 - Debt Service '12 & 13 GO Bonds | \$391,658.00 | \$391,657.00 | \$391,657.00 | 0.0% | \$391,657.00 | 0.0% | \$391,657.00 | 0.0% | \$391,657.00 | 0.0% | \$391,657.00 |
| 49006 - Debt Service Expense | \$2,192,883.00 | \$2,192,882.50 | \$2,192,882.50 | 0.0% | \$2,192,882.50 | 0.0% | \$2,192,882.50 | 0.0% | \$2,192,882.50 | 0.0% | \$2,192,882.50 |

2016 BUDGET
EXETER TOWNSHIP
FUND 08 SEWER

| Organization/Object | 2017 Budget | 2017 Projected | 2018 Budget | % Change | 2019 Outlook | % Change | 2020 Outlook | % Change | 2021 Outlook | % Change | 2022 Outlook |
|---|---------------------|---------------------|---------------------|--------------|---------------------|-------------|---------------------|-------------|---------------------|-------------|---------------------|
| 49200 - Transfer to Other Funds | \$360,000.00 | \$660,000.00 | \$660,000.00 | 83.3% | \$660,000.00 | 0.0% | \$660,000.00 | 0.0% | \$660,000.00 | 0.0% | \$660,000.00 |
| 08600572 - WWT Collection System | \$264,319.62 | \$254,443.09 | \$317,661.77 | 20.2% | \$327,286.98 | 3.0% | \$333,776.19 | 2.0% | \$343,793.82 | 3.0% | \$350,678.22 |
| 41140 - Wages | \$113,022.00 | \$111,332.64 | \$113,649.20 | 0.6% | \$117,058.68 | 3.0% | \$120,570.44 | 3.0% | \$124,187.55 | 3.0% | \$127,913.18 |
| 41141 - Wages Vehicle Maintenance | \$0.00 | \$6,654.94 | \$14,300.52 | N/A | \$14,729.54 | 3.0% | \$15,171.42 | 3.0% | \$15,626.56 | 3.0% | \$16,095.36 |
| 41920 - FICA | \$8,646.18 | \$8,827.42 | \$9,788.15 | 13.2% | \$10,081.80 | 3.0% | \$10,384.25 | 3.0% | \$10,695.78 | 3.0% | \$11,016.65 |
| 41940 - Unemployment Compensation | \$1,130.22 | \$766.06 | \$570.00 | -49.6% | \$587.10 | 3.0% | \$604.71 | 3.0% | \$622.85 | 3.0% | \$641.54 |
| 41950 - Workers Comp Insurance | \$1,130.22 | \$6,239.40 | \$8,649.22 | 665.3% | \$8,908.70 | 3.0% | \$9,175.96 | 3.0% | \$9,451.24 | 3.0% | \$9,734.77 |
| 41961 - Union Health & Welfare | \$45,208.80 | \$32,432.20 | \$52,114.68 | 15.3% | \$53,678.12 | 3.0% | \$55,288.46 | 3.0% | \$56,947.12 | 3.0% | \$58,655.53 |
| 41971 - Union Pension | \$11,302.20 | \$8,800.00 | \$10,935.00 | -3.2% | \$11,263.05 | 3.0% | \$11,600.94 | 3.0% | \$11,948.97 | 3.0% | \$12,307.44 |
| 42315 - Vehicle Fuel/Oil | \$0.00 | \$5,000.00 | \$5,000.00 | N/A | \$5,250.00 | 5.0% | \$5,250.00 | 0.0% | \$5,355.00 | 2.0% | \$5,355.00 |
| 42360 - Maintenance Supplies | \$40,425.00 | \$35,000.00 | \$40,000.00 | -1.1% | \$42,000.00 | 5.0% | \$42,000.00 | 0.0% | \$44,100.00 | 5.0% | \$44,100.00 |
| 42385 - Uniform Rental | \$0.00 | \$200.00 | \$200.00 | N/A | \$210.00 | 5.0% | \$210.00 | 0.0% | \$220.50 | 5.0% | \$220.50 |
| 42450 - Tools/Minor Equipment | \$0.00 | \$300.00 | \$300.00 | N/A | \$315.00 | 5.0% | \$315.00 | 0.0% | \$330.75 | 5.0% | \$330.75 |
| 42510 - Vehicle Maintenance | \$0.00 | \$26.00 | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 |
| 42600 - Equipment Maintenance/Repair | \$6,800.00 | \$5,000.00 | \$6,000.00 | -11.8% | \$6,300.00 | 5.0% | \$6,300.00 | 0.0% | \$6,615.00 | 5.0% | \$6,615.00 |
| 43130 - Engineering Reviews/Inspection | \$4,000.00 | \$2,000.00 | \$4,000.00 | 0.0% | \$4,200.00 | 5.0% | \$4,200.00 | 0.0% | \$4,410.00 | 5.0% | \$4,410.00 |
| 43190 - Contracted Services | \$4,000.00 | \$16,450.93 | \$20,000.00 | 400.0% | \$20,000.00 | 0.0% | \$20,000.00 | 0.0% | \$20,000.00 | 0.0% | \$20,000.00 |
| 43196 - Meter Readings | \$0.00 | \$150.00 | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 |
| 43200 - Communications | \$0.00 | \$500.00 | \$500.00 | N/A | \$525.00 | 5.0% | \$525.00 | 0.0% | \$551.25 | 5.0% | \$551.25 |
| 43600 - Utilities | \$7,500.00 | \$9,000.00 | \$9,000.00 | 20.0% | \$9,450.00 | 5.0% | \$9,450.00 | 0.0% | \$9,922.50 | 5.0% | \$9,922.50 |
| 43700 - Building Repairs/Maintenance | \$0.00 | \$1,500.00 | \$1,500.00 | N/A | \$1,575.00 | 5.0% | \$1,575.00 | 0.0% | \$1,653.75 | 5.0% | \$1,653.75 |
| 47000 - Capital Purchase | \$1,155.00 | \$5,520.00 | \$1,155.00 | 0.0% | \$1,155.00 | 0.0% | \$1,155.00 | 0.0% | \$1,155.00 | 0.0% | \$1,155.00 |
| 47001 - Installation - Meters | \$20,000.00 | (\$1,256.50) | \$20,000.00 | 0.0% | \$20,000.00 | 0.0% | \$20,000.00 | 0.0% | \$20,000.00 | 0.0% | \$20,000.00 |
| 08600573 - WWT Lab Analysis | \$253,945.09 | \$246,741.96 | \$269,310.81 | 6.1% | \$276,701.77 | 2.7% | \$282,758.58 | 2.2% | \$290,323.33 | 2.7% | \$297,019.22 |
| 41140 - Wages | \$118,810.00 | \$131,279.48 | \$121,096.56 | 1.9% | \$124,729.46 | 3.0% | \$128,471.34 | 3.0% | \$132,325.48 | 3.0% | \$136,295.25 |
| 41920 - FICA | \$9,088.96 | \$10,042.88 | \$9,263.89 | 1.9% | \$9,541.80 | 3.0% | \$9,828.06 | 3.0% | \$10,122.90 | 3.0% | \$10,426.59 |
| 41940 - Unemployment Compensation | \$796.03 | \$780.04 | \$380.00 | -52.3% | \$391.40 | 3.0% | \$403.14 | 3.0% | \$415.24 | 3.0% | \$427.69 |
| 41950 - Workers Comp Insurance | \$1,188.10 | \$6,558.92 | \$8,053.36 | 577.8% | \$8,294.96 | 3.0% | \$8,543.81 | 3.0% | \$8,800.12 | 3.0% | \$9,064.13 |
| 41961 - Union Health & Welfare | \$47,524.00 | \$32,598.64 | \$55,590.00 | 17.0% | \$57,257.70 | 3.0% | \$58,975.43 | 3.0% | \$60,744.69 | 3.0% | \$62,567.03 |
| 41971 - Union Pension | \$11,881.00 | \$8,800.00 | \$9,720.00 | -18.2% | \$10,011.60 | 3.0% | \$10,311.95 | 3.0% | \$10,621.31 | 3.0% | \$10,939.95 |
| 42160 - Other Supplies | \$1,950.00 | \$3,000.00 | \$3,000.00 | 53.8% | \$3,150.00 | 5.0% | \$3,150.00 | 0.0% | \$3,307.50 | 5.0% | \$3,307.50 |
| 42250 - Lab Supplies | \$14,332.00 | \$9,332.00 | \$11,898.00 | -20.9% | \$11,898.60 | 5.0% | \$11,898.60 | 0.0% | \$12,493.53 | 5.0% | \$12,493.53 |
| 42360 - Maintenance Supplies | \$0.00 | \$2,000.00 | \$2,000.00 | N/A | \$2,100.00 | 5.0% | \$2,100.00 | 0.0% | \$2,205.00 | 5.0% | \$2,205.00 |
| 42385 - Uniform Rental | \$0.00 | \$200.00 | \$200.00 | N/A | \$210.00 | 5.0% | \$210.00 | 0.0% | \$220.50 | 5.0% | \$220.50 |
| 42450 - Tools/Minor Equipment | \$8,525.00 | \$300.00 | \$300.00 | -96.5% | \$315.00 | 5.0% | \$315.00 | 0.0% | \$330.75 | 5.0% | \$330.75 |
| 42600 - Equipment Maintenance/Repair | \$0.00 | \$2,000.00 | \$3,525.00 | N/A | \$3,701.25 | 5.0% | \$3,701.25 | 0.0% | \$3,886.31 | 5.0% | \$3,886.31 |
| 43190 - Contracted Services | \$39,850.00 | \$39,850.00 | \$39,850.00 | 0.0% | \$39,850.00 | 0.0% | \$39,850.00 | 0.0% | \$39,850.00 | 0.0% | \$39,850.00 |
| 47000 - Capital Purchase | \$0.00 | \$0.00 | \$5,000.00 | N/A | \$5,250.00 | 5.0% | \$5,000.00 | -4.8% | \$5,000.00 | 0.0% | \$5,000.00 |
| 08600574 - WWT Dryer | \$306,078.71 | \$259,518.09 | \$302,336.15 | -1.2% | \$315,275.74 | 4.3% | \$318,589.33 | 1.1% | \$332,210.96 | 4.3% | \$335,726.36 |
| 41140 - Wages | \$61,043.00 | \$67,089.04 | \$61,350.08 | 0.5% | \$63,190.58 | 3.0% | \$65,086.30 | 3.0% | \$67,038.89 | 3.0% | \$69,050.06 |
| 41920 - FICA | \$4,669.79 | \$5,132.31 | \$4,693.28 | 0.5% | \$4,834.08 | 3.0% | \$4,979.10 | 3.0% | \$5,128.47 | 3.0% | \$5,282.33 |
| 41940 - Unemployment Compensation | \$408.99 | \$389.98 | \$190.00 | -53.5% | \$195.70 | 3.0% | \$201.57 | 3.0% | \$207.62 | 3.0% | \$213.85 |
| 41950 - Workers Comp Insurance | \$610.43 | \$3,369.88 | \$4,137.71 | 577.8% | \$4,261.84 | 3.0% | \$4,389.70 | 3.0% | \$4,521.39 | 3.0% | \$4,657.03 |
| 41961 - Union Health & Welfare | \$24,417.20 | \$16,299.32 | \$32,005.08 | 31.1% | \$32,965.23 | 3.0% | \$33,954.19 | 3.0% | \$34,972.82 | 3.0% | \$36,022.00 |
| 41971 - Union Pension | \$6,104.30 | \$4,400.00 | \$4,860.00 | -20.4% | \$5,005.80 | 3.0% | \$5,155.97 | 3.0% | \$5,310.65 | 3.0% | \$5,469.97 |
| 42160 - Other Supplies | \$650.00 | \$387.56 | \$650.00 | 0.0% | \$650.00 | 0.0% | \$650.00 | 0.0% | \$650.00 | 0.0% | \$650.00 |
| 42210 - Chemical Supplies | \$93,650.00 | \$50,000.00 | \$50,000.00 | -46.6% | \$52,500.00 | 5.0% | \$52,500.00 | 0.0% | \$55,125.00 | 5.0% | \$55,125.00 |
| 42212 - Chemical Biosolids Dust Contro | \$0.00 | \$19,000.00 | \$20,000.00 | N/A | \$21,000.00 | 5.0% | \$21,000.00 | 0.0% | \$22,050.00 | 5.0% | \$22,050.00 |
| 42360 - Maintenance Supplies | \$0.00 | \$650.00 | \$650.00 | N/A | \$682.50 | 5.0% | \$682.50 | 0.0% | \$716.63 | 5.0% | \$716.63 |
| 42385 - Uniform Rental | \$0.00 | \$100.00 | \$100.00 | N/A | \$105.00 | 5.0% | \$105.00 | 0.0% | \$110.25 | 5.0% | \$110.25 |
| 42450 - Tools/Minor Equipment | \$8,925.00 | \$300.00 | \$300.00 | -96.6% | \$315.00 | 5.0% | \$315.00 | 0.0% | \$330.75 | 5.0% | \$330.75 |
| 42600 - Equipment Maintenance/Repair | \$0.00 | \$4,000.00 | \$8,000.00 | N/A | \$8,400.00 | 5.0% | \$8,400.00 | 0.0% | \$8,820.00 | 5.0% | \$8,820.00 |
| 43190 - Contracted Services | \$7,200.00 | \$3,000.00 | \$5,000.00 | -30.6% | \$5,250.00 | 5.0% | \$5,250.00 | 0.0% | \$5,512.50 | 5.0% | \$5,512.50 |

**2018 BUDGET
EXETER TOWNSHIP
FUND 08 SEWER**

| Organization/Object | 2017 Budget | 2017 Projected | 2018 Budget | % Change | 2019 Outlook | % Change | 2020 Outlook | % Change | 2021 Outlook | % Change | 2022 Outlook |
|---|-----------------------|-----------------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|---------------|-----------------------|
| 43195 - Sludge Removal | \$15,000.00 | \$2,000.00 | \$12,000.00 | -20.0% | \$12,600.00 | 5.0% | \$12,600.00 | 0.0% | \$13,230.00 | 5.0% | \$13,230.00 |
| 43600 - Utilities | \$83,400.00 | \$83,400.00 | \$83,400.00 | 0.0% | \$87,570.00 | 5.0% | \$87,570.00 | 0.0% | \$91,948.50 | 5.0% | \$91,948.50 |
| 47000 - Capital Purchase | \$0.00 | \$0.00 | \$15,000.00 | N/A | \$15,750.00 | 5.0% | \$15,750.00 | 0.0% | \$16,537.50 | 5.0% | \$16,537.50 |
| 08600575 - WWT Treatment Cost | \$1,112,058.08 | \$986,087.87 | \$971,152.22 | -12.7% | \$1,006,145.79 | 3.6% | \$1,054,068.17 | 4.8% | \$1,092,488.86 | 3.6% | \$1,140,063.35 |
| 41140 - Wages | \$409,282.00 | \$366,715.66 | \$283,844.88 | -30.6% | \$292,360.23 | 3.0% | \$301,131.03 | 3.0% | \$310,164.96 | 3.0% | \$319,469.91 |
| 41920 - FICA | \$31,310.07 | \$28,053.75 | \$21,714.13 | -30.6% | \$22,365.56 | 3.0% | \$23,036.52 | 3.0% | \$23,727.62 | 3.0% | \$24,439.45 |
| 41940 - Unemployment Compensation | \$2,742.19 | \$2,646.64 | \$950.00 | -65.4% | \$978.50 | 3.0% | \$1,007.86 | 3.0% | \$1,038.09 | 3.0% | \$1,069.23 |
| 41950 - Workers Comp Insurance | \$4,092.82 | \$22,288.04 | \$19,237.77 | 370.0% | \$19,814.90 | 3.0% | \$20,409.35 | 3.0% | \$21,021.63 | 3.0% | \$21,652.28 |
| 41961 - Union Health & Welfare | \$163,712.80 | \$107,668.78 | \$123,130.44 | -24.8% | \$126,824.35 | 3.0% | \$130,629.08 | 3.0% | \$134,547.96 | 3.0% | \$138,584.39 |
| 41971 - Union Pension | \$40,928.20 | \$29,040.00 | \$24,300.00 | -40.6% | \$25,029.00 | 3.0% | \$25,779.87 | 3.0% | \$26,553.27 | 3.0% | \$27,349.86 |
| 42160 - Other Supplies | \$0.00 | \$3,000.00 | \$3,000.00 | N/A | \$3,060.00 | 2.0% | \$3,121.20 | 2.0% | \$3,183.62 | 2.0% | \$3,247.30 |
| 42210 - Chemical Supplies | \$0.00 | \$200.00 | \$210.00 | N/A | \$210.00 | 0.0% | \$210.00 | 0.0% | \$220.50 | 5.0% | \$220.50 |
| 42211 - Chlorine Supplies | \$10,000.00 | \$9,000.00 | \$10,000.00 | 0.0% | \$10,500.00 | 5.0% | \$10,500.00 | 0.0% | \$11,025.00 | 5.0% | \$11,025.00 |
| 42315 - Vehicle Fuel/Oil | \$27,450.00 | \$25,000.00 | \$27,450.00 | 0.0% | \$28,822.50 | 5.0% | \$28,822.50 | 0.0% | \$30,263.63 | 5.0% | \$30,263.63 |
| 42360 - Maintenance Supplies | \$10,400.00 | \$10,400.00 | \$10,400.00 | 0.0% | \$10,920.00 | 5.0% | \$10,920.00 | 0.0% | \$11,466.00 | 5.0% | \$11,466.00 |
| 42385 - Uniform Rental | \$0.00 | \$1,200.00 | \$1,200.00 | N/A | \$1,260.00 | 5.0% | \$12,600.00 | 900.0% | \$13,230.00 | 5.0% | \$13,230.00 |
| 42450 - Tools/Minor Equipment | \$0.00 | \$1,000.00 | \$1,000.00 | N/A | \$1,050.00 | 5.0% | \$1,050.00 | 0.0% | \$1,102.50 | 5.0% | \$1,102.50 |
| 42510 - Vehicle Maintenance | \$0.00 | \$2,000.00 | \$2,000.00 | N/A | \$2,100.00 | 5.0% | \$21,000.00 | 900.0% | \$22,050.00 | 5.0% | \$20,050.00 |
| 42511 - Vehicle Maintenance Tires | \$0.00 | \$2,000.00 | \$2,000.00 | N/A | \$2,100.00 | 5.0% | \$2,100.00 | 0.0% | \$2,205.00 | 5.0% | \$2,205.00 |
| 42512 - Vehicle Maintenance Parts | \$0.00 | \$2,500.00 | \$2,500.00 | N/A | \$2,625.00 | 5.0% | \$2,625.00 | 0.0% | \$2,756.25 | 5.0% | \$2,756.25 |
| 42515 - Contracted Vehicle Maintenance | \$0.00 | \$4,000.00 | \$4,000.00 | N/A | \$4,200.00 | 5.0% | \$4,200.00 | 0.0% | \$4,410.00 | 5.0% | \$4,410.00 |
| 42600 - Equipment Maintenance/Repair | \$79,325.00 | \$40,000.00 | \$80,000.00 | 0.9% | \$80,000.00 | 0.0% | \$83,000.00 | 3.8% | \$83,000.00 | 0.0% | \$85,000.00 |
| 43190 - Contracted Services | \$0.00 | \$16,000.00 | \$16,000.00 | N/A | \$16,800.00 | N/A | \$16,800.00 | 0.0% | \$17,640.00 | 5.0% | \$17,640.00 |
| 43195 - Sludge Removal | \$60,000.00 | \$40,000.00 | \$60,000.00 | 0.0% | \$63,000.00 | 5.0% | \$63,000.00 | 0.0% | \$66,150.00 | 5.0% | \$66,150.00 |
| 43200 - Communications | \$15,225.00 | \$15,225.00 | \$15,225.00 | 0.0% | \$15,986.25 | 5.0% | \$15,986.25 | 0.0% | \$16,785.56 | 5.0% | \$16,785.56 |
| 43600 - Utilities | \$239,600.00 | \$245,000.00 | \$245,000.00 | 2.3% | \$257,250.00 | 5.0% | \$257,250.00 | 0.0% | \$270,112.50 | 5.0% | \$270,112.50 |
| 43700 - Building Repairs/Maintenance | \$14,990.00 | \$10,000.00 | \$14,990.00 | 0.0% | \$15,739.50 | 5.0% | \$15,739.50 | 0.0% | \$16,526.48 | 5.0% | \$16,526.48 |
| 43840 - Equipment Rental | \$0.00 | \$150.00 | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 | N/A | \$0.00 |
| 47000 - Capital Purchase | \$3,000.00 | \$3,000.00 | \$3,000.00 | 0.0% | \$3,150.00 | 5.0% | \$3,150.00 | 0.0% | \$3,307.50 | 5.0% | \$3,307.50 |
| TOTAL EXPENDITURES | \$5,788,149.00 | \$6,329,122.20 | \$6,161,157.27 | 6.4% | \$6,255,129.84 | 1.5% | \$6,348,909.50 | 1.5% | \$6,449,540.11 | 1.6% | \$6,514,262.74 |
| EXCESS OF REVENUES OVER EXPENDITURES - 08 SEWER FUND | | | | | | | | | | | |
| | \$1,173,584.00 | \$102,280.68 | \$620,514.24 | -47.1% | \$338,118.16 | -45.5% | \$244,338.50 | -27.7% | \$143,707.89 | -41.2% | \$78,985.26 |

Appendix H - The Township's Projected Future Capital Projects

| CAPITAL EXPENSE DETAIL | 2018 | 2019 | 2020 | 2021 |
|---|------------------|------------------|----------------|------------------|
| Engineering (All Projects) | \$110,000 | \$0 | \$0 | \$0 |
| Replace Water Pumps and Controls | 115,024 | | | |
| Replace Collector Chains and Cross Collectors | 9,191 | 9,191 | 9,191 | 9,191 |
| Gas Unit for Equipment on Digester Roof | 4,600 | | 4,600 | |
| Odor Control -Dryer Room | 127,090 | | | |
| Dewatering Power Feed to MDP-2 | 31,628 | | | |
| Replace Portable Water System | 23,296 | | | |
| Other Capital Purchases | | | | |
| d/er Misc | | | | |
| Replace Roof on Garage | | | | |
| Rotary Swivel Dryer | | | | |
| Replace 3 Raw Wastewater Pumps | 695,289 | | | |
| Manhole Rehab | | | | |
| Pipe Line & Service Line lining | 236,100 | 100,000 | 100,000 | 100,000 |
| Replace Truck 24 | 35,090 | | | |
| Centrifugal Scum pump - Primary PS | 3,500 | | | |
| Upgrade Scada System | 50,720 | | | |
| Heating/AC Unit for Control Building | 30,000 | | | |
| Loader Bucket for 5075M Tractor | 5,800 | | | |
| Install New Body/with Liftgate | 14,619 | | | |
| Replece Recirculation Pump #2 Digester | 10,640 | | | |
| Smartshore Trenching | 8,300 | | | |
| Replace Air Compressor | 25,000 | | | |
| Schuylkill River Trunk Engineering | 491,315 | | | |
| Antietam Engineering | 19,661 | | | |
| Inspection Schuylkill Trunk | | | 168,684 | |
| Inspections Antietam Trunk | | | 6,750 | |
| Recirculation Pump (Centrifugal) | 7,000 | | | |
| Replace Rooftop Heating Units Garage & Headwork's Building | 50,000 | | | |
| Replace Roof on Headworks Building & Generator Gargage Building | 180,000 | | | |
| Replace Schuylkill Trunk Line | | 4,498,265 | | |
| Antietam Trunk Line Replacement | | 180,015 | | |
| Replace Carbon in Dryer Scrubber | | 5,000 | | |
| Replace Bearing in One Centrifuge | | 5,000 | 5,000 | |
| Replace 2 Industrial Compressor's (Primary Pumping) | | 38,560 | | |
| Pave WTP Streets | | 50,000 | | |
| Replace Crane Truck | | | 60,000 | |
| Heister's Creek Trunk Engineering | | | 141,238 | |
| Centrifugal Scum pump - Primary PS | | | 4,000 | |
| Drive Mechanism for Pista Grit System | | | 60,861 | |
| Vacuum Primer System for Pista | | | 43,473 | |
| Thickener Drive | | | 8,694 | |
| Replace Pumps in all Pump Stations | | | 131,000 | |
| Replace Econoline Van | | | | 25,000 |
| Heister's Creek Trunk Inspection | | | | 48,492 |
| Purchase One Rotary Lobe Pump for Digester | | | | 8,000 |
| Replace Digester Roof | 20,000 | | | |
| Dilute Pumps (3) | | | | 12,000 |
| Replace Bearing in 3 Blowers | | | | 8,000 |
| Replace 3 Sludge Pumps in Pump Stations 2 | | | | 45,000 |
| Heister's Creek Trunk Replacement | | | | 1,293,111 |
| Unknown Repairs or Equipment | 50,000 | 50,000 | 50,000 | 50,000 |
| Total Capital Expense | 2,353,773 | 4,936,031 | 793,491 | 1,598,794 |