



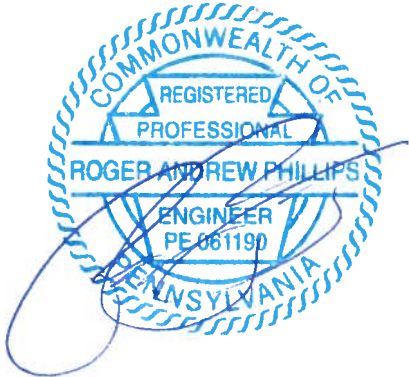
**TOWNSHIP OF EXETER  
BERKS COUNTY, PENNSYLVANIA**

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

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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 BOD<sub>5</sub> per day (lbs. BOD<sub>5</sub>/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 through 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

2,800 1,400 0 2,800 Feet

1 inch = 1,400 feet

EXETER TOWNSHIP  
4025 DIMMICK RD., READING, PA 19606

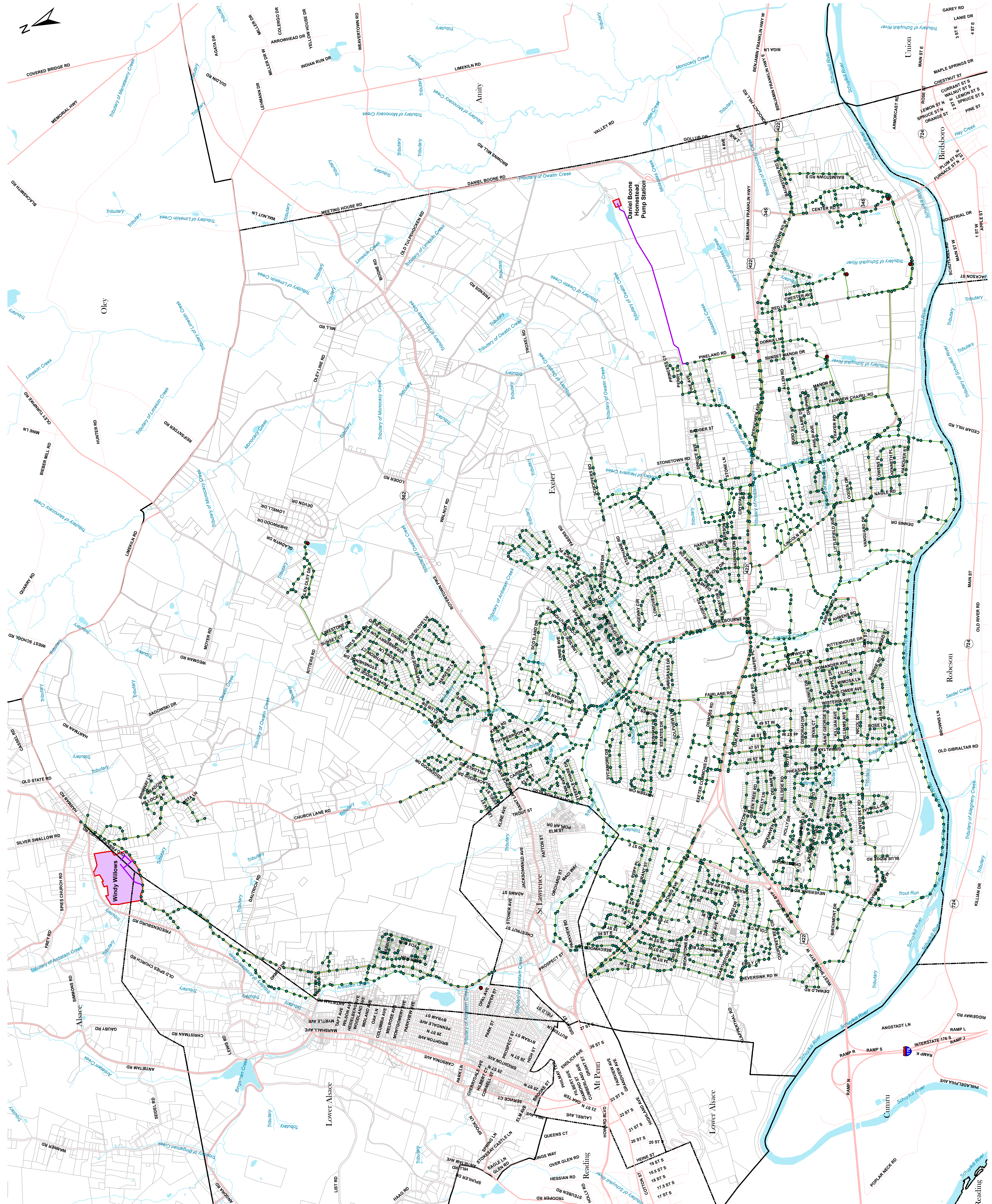
**2017 CHAPTER 94 SANITARY SYSTEM MAP**  
EXETER TOWNSHIP BERKS COUNTY PENNSYLVANIA



**GREAT VALLEY CONSULTANTS**  
75 COMMERCE DRIVE, WYOMISSING, PA 19610-1038  
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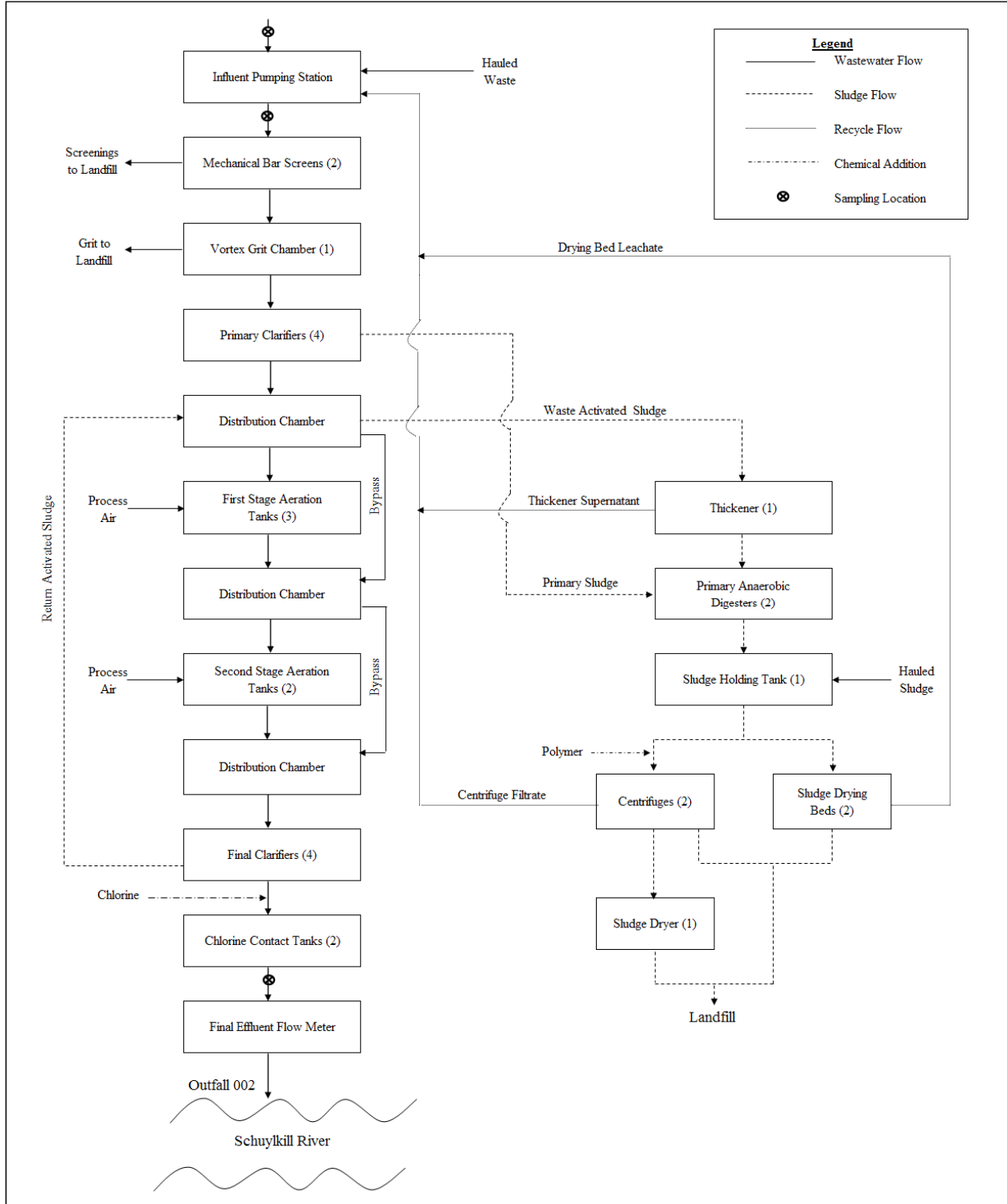
DRAFTED BY: J. MILLER | SCALE: 1" = 1,400'  
CHECKED BY: E. MCCracken | DATE: 3/8/2018  
PROJECTION: NAD83 STATE PLANE | DRAWING NUMBER: 1013-009-D-001





**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 Chapter 94 Spreadsheet  
Sewage Treatment Plants**

Reporting Year:

Facility Name:

Permit No.:

Persons/EDU:

Existing Hydraulic Design Capacity:  MGD  
 Upgrade Planned in Next 5 Years?   
 Future Hydraulic Design Capacity:  MGD

Existing Organic Design Capacity:  lbs BOD5/day  
 Upgrade Planned in Next 5 Years?   
 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	2.673	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	2.69
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	3169.7	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	7,614
June	6,336	6,853	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	7,665
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	2,408	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**

<u>ACCOUNT</u>	<u>DESCRIPTION</u>	<u>ORIGINAL COST</u>
(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
	<b>TOWNSHIP TOTAL</b>	<b>68,404,345.14</b>



**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 INSTALLED	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 MARATHON 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	COLLECTION SEWERS - FORCE - MAINS				
	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		13,826 FT		\$724,186.15
360.23	COLLECTION SEWERS - FORCE - MANHOLES				
	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		64	
361.21	COLLECTION SEWERS - GRAVITY - MAINS				
	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
	VCP - 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	2,6830 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		653,054 FT		\$15,360,150.52
361.22	COLLECTION SEWERS - GRAVITY - MAIN RELINING				
	TRENCHLESS SEWER REHAB - SLIP LINE PROJECT	2008			\$148,625.00
	MR. REHAB INC.	2012			\$12,813.00
	TOTAL COLLECTION SEWERS - GRAVITY - MAIN RELINING				\$161,438.00
361.23	COLLECTION SEWERS - GRAVITY - MANHOLES				
	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		3,038		\$4,110,550.96

**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	COLLECTION SEWERS - GRAVITY - MANHOLES REPAIRS				\$10,179.00
	MANHOLE REPAIRS	2015			\$10,179.00
	TOTAL COLLECTION SEWERS - GRAVITY - MANHOLES REPAIRS				
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		8,984		\$8,107,147.46
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				\$28,200.34

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	FLOW MEASURING INSTALLATIONS				
	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 PARKVIEW DRIVE	1991			\$23,874.41
	TOTAL FLOW MEASURING INSTALLATIONS				\$95,497.64
371.30	PUMPING EQUIPMENT				
	LINCOLN ROAD - PUMP (DUPLICATE)	1993			\$24,736.63
	BUDDIES PLACE - PUMP (DUPLICATE)	1993			\$14,841.98
	POTTSTOWN AVENUE - PUMP (DUPLICATE)	1993			\$14,841.98
	SOUTH BAUMSTOWN - PUMP (DUPLICATE)	1993			\$14,841.98
	PINELAND ROAD - PUMP (DUPLICATE)	1997			\$8,296.98
	GLEN OLEY - PUMP (DUPLICATE)	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				\$180,108.68
371.32	PUMPING EQUIPMENT - GRINDER				
	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		21		\$61,593.68

**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	TREATMENT AND DISPOSAL EQUIPMENT				
	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
	DEMIBILIZATION 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>				
	<u>LENOVO COMPUTER</u>	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, HARNESES	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			\$4,170.76	
	<b>TOTAL WASTEWATER SYSTEM</b>				<b>\$68,404,345.14</b>

**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
<b>Operating Revenues:</b>						
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
<b>Total Operating Revenues</b>	<b>5,541,478</b>	<b>5,353,552</b>	<b>1,076,285</b>	<b>1,931,990</b>	<b>6,617,763</b>	<b>7,285,542</b>
<b>Operating Expenditures:</b>						
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
<b>Total expenditures</b>	<b>2,916,637</b>	<b>3,021,637</b>	<b>730,900</b>	<b>2,042,902</b>	<b>3,647,537</b>	<b>5,064,539</b>
<b>Operating Income</b>	<b>2,624,841</b>	<b>2,331,915</b>	<b>345,385</b>	<b>(110,912)</b>	<b>2,970,226</b>	<b>2,221,003</b>
<b>Nonoperating Revenues (Expenses)</b>						
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)
<b>Total Nonoperating Revenues (Expenses)</b>	<b>(411,696)</b>	<b>(508,415)</b>	<b>1,115</b>	<b>1,387</b>	<b>(410,581)</b>	<b>(507,028)</b>
<b>Income before Other Financing Sources (Uses)</b>	<b>2,213,145</b>	<b>1,823,500</b>	<b>346,500</b>	<b>(109,525)</b>	<b>2,559,645</b>	<b>1,713,975</b>
<b>Other Financing Sources (Uses)</b>						
Transfers In	-	-	20,673	-	20,673	-
Transfers out	(1,729,971)	(242,622)	(316,892)	(285,406)	(2,046,863)	(528,028)
<b>Total Other Financing Sources (Uses)</b>	<b>(1,729,971)</b>	<b>(242,622)</b>	<b>(296,219)</b>	<b>(285,406)</b>	<b>(2,026,190)</b>	<b>(528,028)</b>
<b>Change in Net Position</b>	<b>483,174</b>	<b>1,580,878</b>	<b>50,281</b>	<b>(394,931)</b>	<b>533,455</b>	<b>1,185,947</b>
<b>Fund balances at beginning of year</b>	<b>(11,228,202)</b>	<b>(12,809,081)</b>	<b>220,410</b>	<b>615,342</b>	<b>(11,007,792)</b>	<b>(12,193,739)</b>
<b>Fund balances at end of year</b>	<b>\$ (10,745,028)</b>	<b>\$ (11,228,203)</b>	<b>\$ 270,691</b>	<b>\$ 220,411</b>	<b>\$ (10,474,337)</b>	<b>\$ (11,007,792)</b>

## 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
				%		%		%		%	
<b>08 - Sewer Fund</b>	<b>\$375,000.00</b>	<b>\$186,576.49</b>	<b>\$188,423.51</b>	<b>-49.8%</b>	<b>\$0.00</b>	<b>-100.0%</b>	<b>\$0.00</b>	<b>N/A</b>	<b>\$0.00</b>	<b>N/A</b>	<b>\$0.00</b>
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
<b>08600571 - WWWT Administration</b>	<b>\$6,586,733.00</b>	<b>\$6,244,826.39</b>	<b>\$6,593,248.00</b>	<b>0.1%</b>	<b>\$6,593,248.00</b>	<b>0.0%</b>	<b>\$6,593,248.00</b>	<b>0.0%</b>	<b>\$6,593,248.00</b>	<b>0.0%</b>	<b>\$6,593,248.00</b>
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
<b>TOTAL REVENUE</b>	<b>\$6,961,733.00</b>	<b>\$6,431,402.88</b>	<b>\$6,781,671.51</b>	<b>-2.6%</b>	<b>\$6,593,248.00</b>	<b>-2.8%</b>	<b>\$6,593,248.00</b>	<b>0.0%</b>	<b>\$6,593,248.00</b>	<b>0.0%</b>	<b>\$6,593,248.00</b>
<b>08600571 - WWWT Administration</b>	<b>\$3,851,747.50</b>	<b>\$4,582,331.19</b>	<b>\$4,300,696.31</b>	<b>11.7%</b>	<b>\$4,329,719.56</b>	<b>0.7%</b>	<b>\$4,359,717.23</b>	<b>0.7%</b>	<b>\$4,390,723.93</b>	<b>0.7%</b>	<b>\$4,422,775.58</b>
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



**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
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
<b>08600574 - WWT Collection System</b>	<b>\$264,319.62</b>	<b>\$254,443.09</b>	<b>\$317,661.77</b>	<b>20.2%</b>	<b>\$327,286.98</b>	<b>3.0%</b>	<b>\$333,776.19</b>	<b>2.0%</b>	<b>\$343,793.82</b>	<b>3.0%</b>	<b>\$350,678.22</b>
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
<b>08600573 - WWT Lab Analysis</b>	<b>\$253,945.09</b>	<b>\$246,741.96</b>	<b>\$269,310.81</b>	<b>6.1%</b>	<b>\$276,701.77</b>	<b>2.7%</b>	<b>\$282,758.58</b>	<b>2.2%</b>	<b>\$290,323.33</b>	<b>2.7%</b>	<b>\$297,019.22</b>
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	\$11,332.00	-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
<b>08600574 - WWT Dryer</b>	<b>\$306,078.71</b>	<b>\$259,518.09</b>	<b>\$302,336.15</b>	<b>-1.2%</b>	<b>\$315,275.74</b>	<b>4.3%</b>	<b>\$318,589.33</b>	<b>1.1%</b>	<b>\$332,210.96</b>	<b>4.3%</b>	<b>\$335,726.36</b>
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
<b>08600575 - WWWT Treatment Cost</b>	<b>\$1,112,058.08</b>	<b>\$986,087.87</b>	<b>\$971,152.22</b>	<b>-12.7%</b>	<b>\$1,006,145.79</b>	<b>3.6%</b>	<b>\$1,054,068.17</b>	<b>4.8%</b>	<b>\$1,092,488.06</b>	<b>3.6%</b>	<b>\$1,108,063.35</b>
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%	\$1,260.00	0.0%	\$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%	\$2,100.00	0.0%	\$22,050.00	5.0%	\$20,050.00
42511 - Vehicle Maintenance Tires	\$0.00	\$2,500.00	\$2,500.00	N/A	\$2,625.00	5.0%	\$2,625.00	0.0%	\$2,750.00	5.0%	\$2,750.00
42512 - Vehicle Maintenance Parts	\$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
42515 - Contracted Vehicle Maintenance	\$0.00	\$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
<b>TOTAL EXPENDITURES</b>	<b>\$5,788,149.00</b>	<b>\$6,329,122.20</b>	<b>\$6,161,157.27</b>	<b>6.4%</b>	<b>\$6,255,129.84</b>	<b>1.5%</b>	<b>\$6,348,909.50</b>	<b>1.5%</b>	<b>\$6,449,540.11</b>	<b>1.6%</b>	<b>\$6,514,262.74</b>

**EXCESS OF REVENUES OVER EXPENDITURES - 08 SEWER FUND**  
**\$1,173,584.00**

**\$102,280.68**  
**\$620,514.24**  
**\$338,118.16**  
**\$244,338.50**  
**\$27.7%**  
**\$143,707.89**  
**\$78,985.26**  
**-41.2%**

**Appendix H - The Township's Projected Future Capital Projects**

<b>CAPITAL EXPENSE DETAIL</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	<b>2021</b>
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	35,000			
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
<b>Total Capital Expense</b>	<b>2,353,773</b>	<b>4,936,031</b>	<b>793,491</b>	<b>1,598,794</b>