



December 23, 2020

WLTPX20104P

Willistown Township  
Attn: Sally Slook, Township Manager  
688 Sugartown Road  
Malvern, PA 19355

**RE: Proposal for Professional Engineering Services  
Engineering Assessment and Original Costs  
Willistown Township Sewer System**

Dear Ms. Slook:

We are pleased to submit our proposal to provide engineering services as part of the team of professional advisors assembled to assist in the sale of the Willistown Township ("Township") Sewerage Facilities to Aqua America Pennsylvania ("Aqua"). Our task will be to "conduct an assessment of the tangible assets of the selling utility" per the requirements of PA Act 12 (HB1329) and as further identified in the Public Utility Commission's Final Implementation Order from the October 27, 2016 public meeting.

This assessment will be used by the Utility Value Experts (UVEs) retained by both the seller (Township) and buyer (Aqua). We will provide a licensed engineer(s) and follow Commission practices and procedures and the National Association of Regulatory Utility Commissioners (NARUC) Systems of Accounts. Our assessment will be an inventory condition and original cost of the Township's assets that will be used by the UVEs to develop their appraisals of the system.

#### **SCOPE OF WORK**

1. We will attend one meeting with key Township and Aqua representatives to identify and confirm specific information needed to support our assessment and prepare our report.
2. We will complete an inventory of the used and useful assets to be transferred, compiled by year (if available) and account. We will identify separately any facility that is being held for future use (if any).

The inventory will be developed from available records, maps, work orders, escrow accounts, debt issue closing documents funding construction projects, and other sources to provide an inventory and listing.

3. We will prepare a list of non-depreciable property such as land and rights-of-way from information and acquisition costs provided by the Township. Any property or easement research beyond that information provided by the Township can be performed as a supplemental service in accordance with the hourly Rate Schedule herein.
4. We will identify and review plans and/or reports of key facilities. Site visits to system components will be performed. This identification and review will include:
  - Permitted discharges, including regulatory requirements

- Penn's Preserve Wastewater Treatment Plant
  - 6 Pumping Stations and 2 Booster Pump Stations including force mains
  - Gravity collection system
  - Low pressure collection system
5. We will review the Township's operating records and compare this data to regulatory requirements and generally accepted operating parameters for wastewater systems. We will review and summarize the operation and maintenance expenses for the last three years.
  6. We will identify improvements made by the Township and current Township plans and projections for future capital projects.
  7. We will complete an assessment of the identified assets.
  8. We will determine and/or establish an original cost of construction for each asset.
  9. We will prepare a Draft Inventory and Assessment Report and review with the Township and Aqua team.
  10. We will revise the Draft Report to address comments.
  11. We will finalize the Assessment Report.
  12. We will attend and/or participate in progress meetings and/or conference calls.

Our scope does not include financial evaluation of the system or contributing components, and our assessment is based solely on the technical elements of the system.

**SCHEDULE**

We will initiate work immediately upon receipt of authorization to proceed. We anticipate our tasks will be completed within 45 to 60 days thereafter.

**FEES**

Our proposed fees are as follows: Tasks 1 thru 4 will be performed for the lump sum fees noted, subject to our expectation of the UVEs' requirements. Task 5 will be performed on a Time & Materials basis at the hourly rates in the Rate Schedule hereafter; the fee for this item is an allowance.

<b>TASK</b>	<b>FEE</b>	
1. Visit and Inventory Facilities	\$7,700.00	(Lump Sum)
2. Determine Original Cost of Assets	\$7,200.00	(Lump Sum)
3. Facilities Assessment	\$7,400.00	(Lump Sum)
4. Prepare Assessment Report	\$5,900.00	(Lump Sum)
5. Meetings Allowance	\$3,000.00	(Allowance)
<b>TOTAL ESTIMATED FEE</b>	<b>\$31,200.00</b>	

Any work outside of the scope of work in this proposal, including but not limited to parcel and easement research, coordination with neighboring municipalities, response to PUC questions and information requests, and post-EA progress meetings will be billed separately on a Time & Material basis at the hourly rates in the Rate Schedule hereafter. Should Act 537 Planning be requested, a separate proposal will be provided accordingly.

**RATE SCHEDULE**

Meetings and Additional Services will be performed in accordance with our 2021 hourly rate schedule with the Township:

Senior Professional .....	\$134.00/hour
Project Professional .....	\$123.00/hour
Staff Professional .....	\$117.00/hour
Graduate Professional .....	\$105.00/hour
Technician .....	\$93.00/hour

We trust that the above Scope of Work addresses your needs for assessment of the system. Should you have any questions, please contact Mike Ellis at 302-351-5236 or [mellis@pennoni.com](mailto:mellis@pennoni.com) or Khal Hassan at 610-422-2499 or [khassan@pennoni.com](mailto:khassan@pennoni.com).

Sincerely,  
**PENNONI ASSOCIATES INC.**



Michael J. Ellis, PE  
Senior Engineer



Khaled Hassan, PE  
Associate Vice President

cc: Scott Shearer, PFM



# WILLISTOWN TOWNSHIP SEWERAGE FACILITIES ENGINEERING ASSESSMENT AND ORIGINAL COST

*Willistown Township  
Chester County, PA*

*Prepared for:*

Willistown Township  
688 Sugartown Road  
Malvern, PA 19355

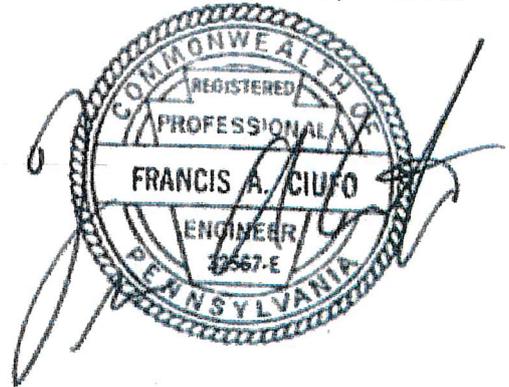
Aqua Pennsylvania Wastewater, Inc.  
762 W. Lancaster Avenue  
Bryn Mawr, PA 19010

*Submitted by:*

Pennoni Associates Inc.  
Christiana Executive Campus  
121 Continental Drive, Suite 207  
Newark, DE 19713



Michael J. Ellis, PE  
Pennoni Associates Inc.



Frank A. Ciuffo, PE  
Pennoni Associates Inc.

WLTPX20104

July 6, 2021



## 1. EXECUTIVE SUMMARY

As required by PA Act 12 of 2016 and following the guidelines of the "Uniform System of Accounts for Class A Wastewater Utilities", an assessment of the tangible assets of facilities and equipment of the Willistown Township wastewater utility is prepared as part of the asset purchase agreement with Aqua Pennsylvania Wastewater, Inc. (AQUA). Each facility and class of equipment was coded based on Section 300 of the "Wastewater Utility Plant Accounts" of the Guidelines. The Asset Survey included a wastewater treatment plant with spray irrigation fields and aeration lagoons, six pump stations, two booster stations, associated force mains and pressure mains, and approximately 25 miles of gravity sewers. Asset cost information was derived from various sources. Site visits to each of the facilities were conducted to inventory the equipment and assess conditions.

Site inventories and facility conditions were documented on facility information sheets and summarized in the facility description summaries.

Conditions of the wastewater treatment facility, pump stations, and booster stations vary from fair to very good based on the age and/or completion of recent improvements.

Gravity sewer and force main conditions were not determined. The piping installation period ranges from 1977 to 2020.

A complete list of the assets and original costs is provided in Section 9 of this report.

## 2. PURPOSE OF REPORT

The purpose of this report is to “conduct an assessment of the tangible assets of the selling utility” per the requirements of PA Act 12 of 2016.

This engineering assessment will be used by the Utility Valuation Experts (UVEs) retained by both the seller (Willistown Township) and buyer (AQUA). The engineering assessment followed the practices and procedures of the Public Utility Commission (PUC) and National Association of Regulatory Utility Commissioners (NARUC) Systems of Accounts. The engineering assessment report documents the conditions and original costs of Willistown Township’s assets that will be used as the common list for the UVEs to develop their appraisal of the system.

The report preparation process included meeting with key Township and AQUA representatives to identify and confirm specific information needed to support the assessment and to prepare the report, providing a mutually agreed upon scope of work with Willistown Township and AQUA. The inventory is a compilation of data gathered by Pennoni, developed from available records, maps, work orders, payment records from construction projects, site evaluations, and other sources to provide an inventory and listing.

This report contains the following:

- An inventory of the used and useful assets to be transferred, compiled by year and account (codes).
- Identification of facilities being held for future use (if any).
- A list of non-depreciable property such as land and rights-of-way.
- A review of system components, plans, and reports of key facilities. This includes:
  - Permitted discharges, including regulatory requirements
  - Penn’s Preserve Wastewater Treatment Plant (WWTP), including spray fields and aeration lagoons
  - Pumping Stations (6 each) and Booster Stations (2 each), including force mains and pressure systems
  - Gravity collection system
- Summary of the operation and maintenance expenses based upon review of Willistown Township operating records.
- An assessment of the identified assets.
- Determination and/or establishment of an original cost of construction for each asset.

Assets were identified through various sources. Gravity sewer and force main sizes and quantities were taken from Construction Escrow Releases/Estimates, Township Sewer System Mapping, and

Land Development Plans. The Wastewater Treatment Plant and Pump Stations were field inventoried and evaluated; and supplemented with information obtained from drawings, where available. Asset costs are based on Construction Escrow Releases/Estimates where available or estimated current cost and back calculated to the year of installation using the ENR Construction Cost Index.

A coding system as described in Section 300 of the Uniform System of Accounts for Class A Wastewater Utilities was used for classifying various assets. Section 300, as well as the listing of codes, can be found in Appendix B.

### 3. SYSTEM DESCRIPTION

#### System Summary

Willistown Township, Chester County, PA borders Malvern, East Whiteland, and Tredyffrin Townships to the north; Newtown and Edgmont Townships in Delaware County to the south; Easttown and Tredyffrin Townships to the east; and East Goshen and Westtown Township to the west.

Willistown Township is responsible for the safe collection and transmission of an average of 1.305 million gallons per day (MGD) of wastewater generated in southeastern Pennsylvania (A map of the service areas is located in Appendix A, Figure A1). The wastewater system in the Township consists of approximately 25 miles of gravity collectors and interceptors ranging in size from 8 to 18 inches diameter, approximately 9 miles of low pressure sewer piping ranging in size from 1-1/2 to 4 inches diameter, approximately 5 miles of force mains ranging in size from 2 to 14 inches diameter, the Penn's Preserve WWTP spray field irrigation system and aeration lagoons, six Township-owned sewage pumping stations, two Township-owned booster pump stations, and one undedicated pumping station that is permitted to discharge to the Township's sewer system. Apart from the pumping station that is undedicated, the wastewater systems are owned, operated, and maintained by Willistown Township. No properties are held for future use. Wastewater from the Willistown Chase and Penn's Preserve subdivisions are conveyed to the Penn's Preserve WWTP. All other wastewater is conveyed via the Valley Creek Trunk Sewer (VCTS) through Tredyffrin and Easttown Townships to the Valley Forge Sewer Authority (VFSA) Wastewater Treatment Plant in Schuylkill Township for treatment. In addition, flows from East Whiteland Township and Malvern Borough are conveyed through Willistown to the VCTS and VFSA.

There are approximately 2,405 EDUs connected to the Township's sewer system as direct customers of Willistown Township. Of these customers, about 2,215 EDUs are treated by VFSA, and 190 EDUs are treated by the Penn's Preserve WWTP. There are also three intermunicipal connections in which wastewater is conveyed through the Township's sewer system via intermunicipal conveyance agreements with Willistown.

According to Willistown's 2020 Chapter 94 Report, the average annual flow for the Township was 1.305 MGD, which is 90.8% of the Township's allocated capacity of 1.438 MGD at the VFSA WWTP. The 2020 monthly average daily flow decreased by about 10% from 2019. The flow reduction is attributed to the completion of sewer system repairs. Willistown's long term (January 2015 to December 2020) monthly average daily flow is 1.228 MGD.

### Drainage Areas

The Willistown sewer system has five major drainage areas in which wastewater discharges through adjacent townships to the VFSA and one drainage area in which wastewater is discharged to the Penn's Preserve WWTP.

The Tredyffrin Township 1 drainage area accounts for approximately 97% of all Willistown flow to the VCTS. Five Township-owned pump stations – Pump Station #1, Pump Station #2, Pump Station #3, Pump Station #4, and Dovecote Pump Station – two Township-owned booster pump stations – Booster Pump Station #1 and Booster Pump Station #2 – and one undedicated pump station – Devereux Pump Station – are located in this drainage area. All wastewater from this drainage area is conveyed through gravity and pressure systems to the gravity sewer on North Cedar Hollow Road, where they are metered at the Cedar Hollow meter, and then to the VCTS in Tredyffrin Township.

The Tredyffrin Township 2 drainage area connects seven unmetered EDUs to the Tredyffrin Township sewer system. All flows are conveyed through a gravity interceptor along West Central Avenue, where flows are unmetered prior to flowing into Tredyffrin's system.

The Tredyffrin Township 3 drainage area directly connects 56 unmetered EDUs to the Tredyffrin Township sewer system. All flows are conveyed through a gravity interceptor along Plank Avenue, Paoli Pike, Richmond Drive, Wistar Road, and Cobblestone Drive, where flows are unmetered prior to flowing into Tredyffrin's system.

All wastewater flows from the Easttown Township 1 drainage area are conveyed through the gravity sewer on Weatherstone Drive to Easttown Township, where they are metered at the Pheasant Run flow meter on Pheasant Run Drive before entering the sewer system in Easttown Township.

The Easttown Township 2 drainage area directly connects one unmetered EDU to the Easttown Township sewer system. All flows are conveyed through a gravity interceptor, where flows are unmetered prior to flowing into Easttown's system.

The Penn's Preserve drainage area connects approximately 190 EDUs from the Willistown Chase and Penn's Preserve subdivisions to the Penn's Preserve WWTP. One Township owned pump station – Pump Station #5 – is located in this drainage area. All wastewater flows are conveyed through a gravity sewer to Pump Station #5, located on the eastbound side of West Chester Pike (Route 3), and directly pumped to the aeration lagoons across the street at Penn's Preserve WWTP for treatment.

## 4. INVENTORY OF ASSETS

### 4.1. PENN'S PRESERVE WASTEWATER TREATMENT PLANT

#### Facility Description (see attached Information Sheet)

The Penn's Preserve Wastewater Treatment Plant was built in 1997-1998 and is located on the Okehocking Preserve on lands owned by the Township. The system consists of the following components:

- One Aerated Lagoon, One Storage Lagoon
- 3 Floating Aerators
- 3 Spray Pumps
- Service Building
- Sodium Hypochlorite Disinfection System
- Spray Irrigation System

#### Lagoon System

The treatment lagoon system consists of one 2,230,000-gallon aerated lagoon. Aeration is supplied by three 5 HP Environmental Equipment Engineering Model FA1805 floating aerators. The lagoon is divided into two chambers with a floating baffle manufactured by ThermaFab. The average detention time is 28 days. From the aeration lagoon, the treated wastewater flows to a 4,500,000-gallon storage lagoon. From the storage lagoon, the treated water is pumped to spray fields.

#### Spray Irrigation System

Flow for the spray irrigation system is provided by two 25 HP and one 10 HP Gould inline centrifugal pumps. The pumps can deliver 300 GPM and 100 GPM, respectively. The pumps supply flow to two separate spray irrigation fields located on Township property east of the lagoon system. The fields are 6.81 acres and 2.15 acres for a total of 8.96 acres.

Distribution of the water is via Rainbird Model 30WSH sprinklers which utilize an RFN-3-75 spray nozzle. Each sprinkler unit is rated for 7.5 GPM at 50 PSI and has a spray arc of 100 ft. diameter. There are a total of 54 sprinkler units.

#### Disinfection system

The discharge to the spray field is pretreated with a Sodium Hypochlorite solution supplied by a LMI Model B721-490S dosing pump. The liquid is stored in 55-gallon drums.

**Service Building**

The Service Building (20 ft x 25 ft) is constructed of concrete blocks, stone façade and an asphalt shingled roof. The interior consists of the spray irrigation pumps, florescent lighting, electric unit heater, vent, chemical dosing equipment and a 30-gallon electric water heater. A laboratory table with standard glassware and reagents is located along one wall.

The building equipment is powered by a 600-amp Square D service MCC and a 35 KVA transformer.

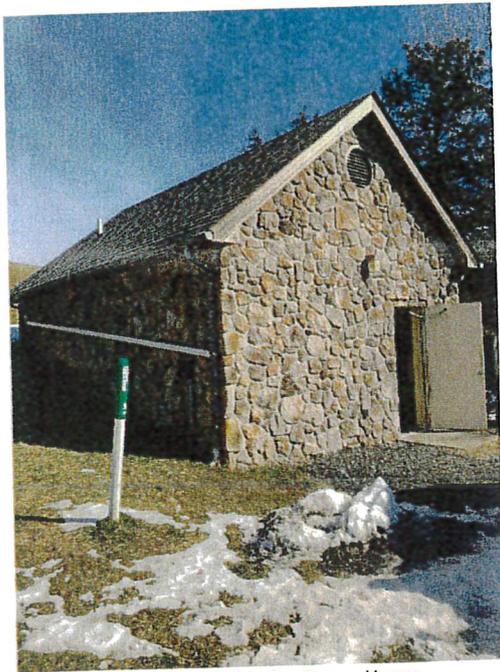


Figure 1 – Irrigation Pump House



Figure 2 – Aeration Lagoon



Figure 3 – Storage Lagoon



Figure 4 – Bar Screen at Aeration Lagoon



Figure 5 – Spray Irrigation Pumps



Figure 6 – Pump Control Panel



Figure 7 – Spray Irrigation Pumps

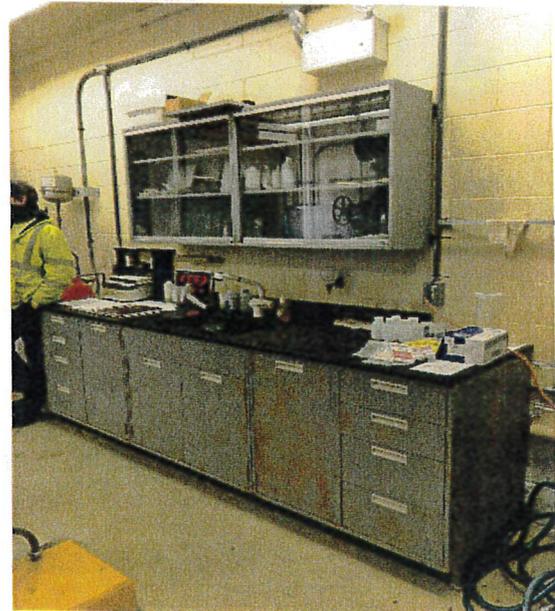


Figure 8 – Lab Table and Supplies

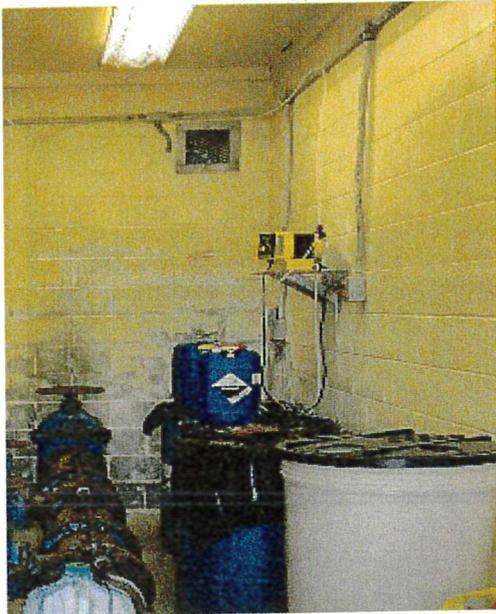


Figure 9 – Chemical Feed System



Figure 10 – Sodium Hypochlorite Drum

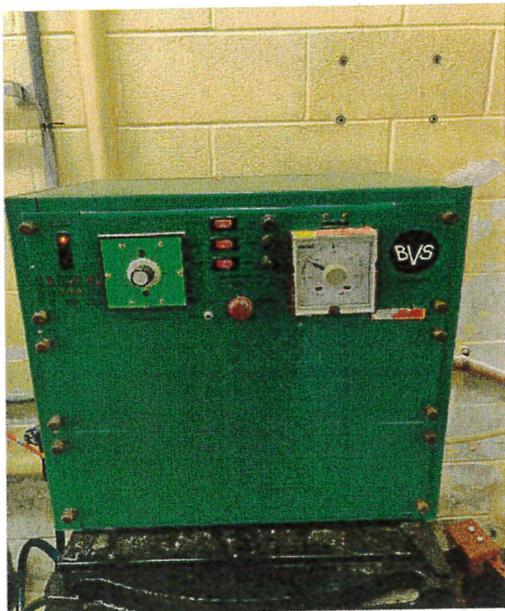


Figure 11 – Sampling Unit

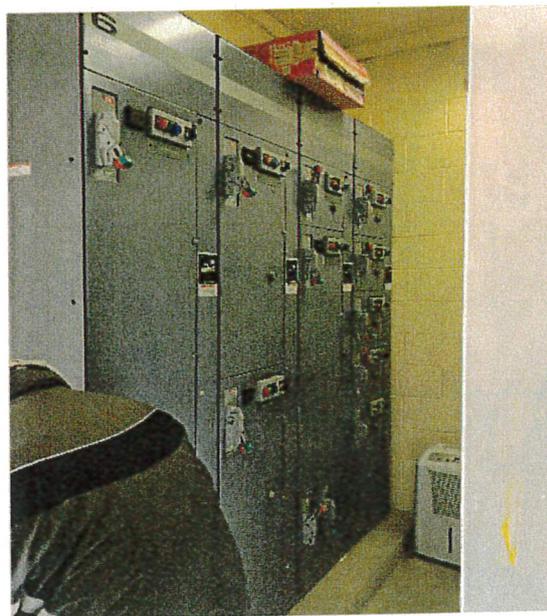


Figure 12 – Motor Control Center

## 4.2. PUMP STATIONS

### Pump Station #1

#### Facility Description (see attached Information Sheet)

Pump Station #1 is located at 66 Devon Road. The pump station is equipped with two submersible Flygt NT-3127.060 pumps with a 200 GPM permitted peak flow controlled with soft starts. Wastewater is discharged through an 820 LF 4-inch ductile iron force main that ties into the Township's existing sewage collection system at Manhole 2-83 at the intersection of Devon Road and Cedar Hollow Road. The pump station was originally installed in 1977 with pump upgrades performed in 2015.

The station is two levels deep with a wet well and dry well configuration. The wet well is concrete (11.5 ft x 8 ft deep). The control panel is manufactured by Primex. There are two 4-inch check valves and two 4-inch gate valves. The influent line to the wet well contains a Franklin Miller grinder operated via a 3 HP hydraulic power pack. The station has a Sparling TigerMagEP flow meter and an ISCO chart recorder.

The building (300 SF) is constructed of brick exterior with CMU interior and a fiberglass shingle roof in fair condition. The building contains overhead fluorescent lighting, one fiberglass double door, and one single fiberglass door.

The generator is an Onan 45 KW unit with two propane tanks. The Automatic Transfer Switch (ATS) is manufactured by Westinghouse.

The entire property is surrounded by approximately 160 LF of chain link fence. The facility has an inactive blower system for odor control.

#### Property Condition

The building and all mechanical and electrical equipment are in fair to good condition.

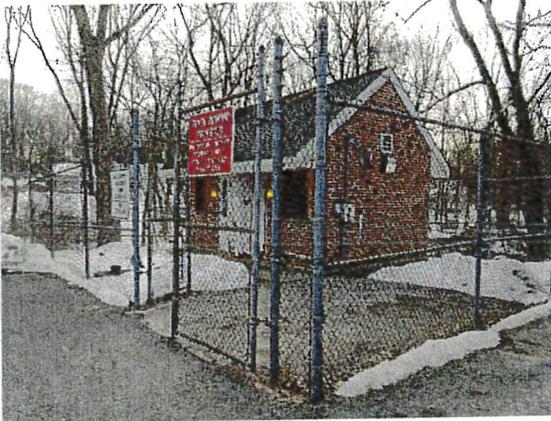


Figure 1 – Building Exterior

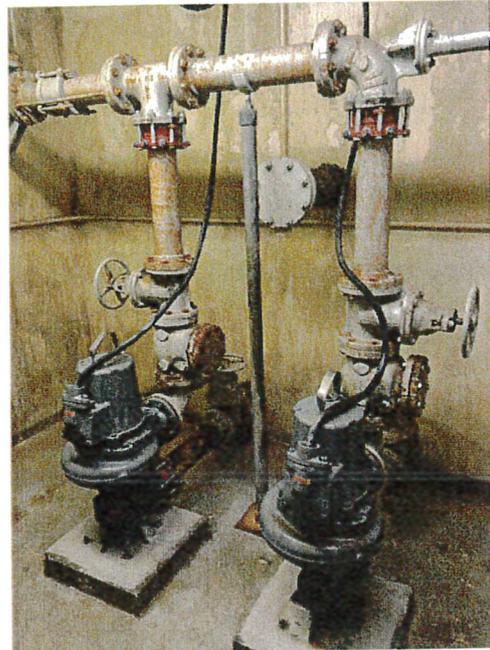


Figure 2 – Submersible Pumps



Figure 3 – Soft Starts

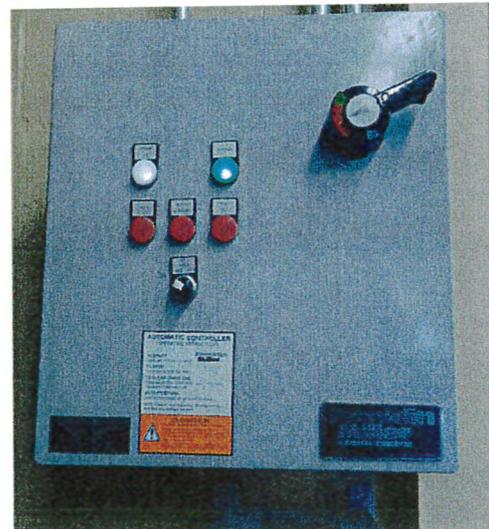


Figure 4 – Franklin Miller Grinder Controls

<b>PUMP STATION</b>				Scheduled Visit Date:	2/17/2021
Station Name		Pump Station #1	Phone #		
Location		66 Devon Rd, Malvern, PA			
Start Up Date		1977			
CODE	SUBCODE	PUMP STATION			COMMENTS
371.3		<b>PUMP(S)</b>			
371.3		Condition			
		No. of Pumps	2		
		Type	SUBMERSIBLE		
		Pump Manufacturer	XYLEM		
		Pump Model Number	FLYGT NT-3127.060		
		Year Installed	2015		
		Pump GPM	200		
		Pump TDH Ft.	58		
		Outlet Size	4"		
		Motor HP	7.5		
		Motor Voltage	230		
371.3		Pump Control (VFD?)	SQUARE D SOFT START		
370.3		<b>WET WELL</b>			
		Condition			
		Size	11.5' x 8' DEEP		
		Material	CONCRETE		
		Lined			
		Hatch			
		Vent			
		Rails			
		Cable			
		Piping			
371.3		<b>CONTROL PANEL</b>			
		Manufacturer	PRIMEX		
		Year Installed	1977		
		Model/Serial number	MICRO VPAC II		
361		<b>INFLUENT PIPING (IF KNOWN)</b>			
		Material	VP		
		Diameter	8"		
371		<b>GRINDER</b>			
		Manufacturer	FRANKLIN MILLER		
		Model/Serial number	TM8532		
		HP	3		
		Year Installed			
371		<b>CRAIN/HOIST</b>			
		Manufacturer	CM		
		Model/Serial number			
		Year Installed			
360		<b>VALVE VAULT</b>			
		Type	CHECK VALVE	GATE VALVE	
		Manufacturer	KENNEDY	KENNEDY	
		Size	4"	4"	
		#	2	2	
		Year Installed			
355		<b>GENERATOR</b>			
		Manufacturer	ONAN		
		Generator KW	45		
		Generator KVA	56		
		Fuel Tank (Gals)	PROPANE		
355		ATS (manf/model #)	WESTINGHOUSE		
		Year Installed	1977		
360		<b>FORCE MAIN</b>			
		Force Main Size	4"		
		Force Main Mat.	DIP		
		Length In Feet	820 LF		
		Year Installed	1977		
		Discharge Point	MH 2-83		
		Discharge Point Location			

354.2	<b>BUILDING</b>				
	Condition				
	Size	300 SF			
	Main Structure Material	BRICK			
	Roof Type	FIBERGLASS			
	Roof Condition				
	Doors (number /material)	3/FIBERGLASS			
	Lighting (Type)	FLUORESCENT			
	Year Installed	1977			
	<b>ELECTRICAL</b>				
371.3	MCC	WESTINGHOUSE			
396	Alarm System (manf/ model)	PRIMEX/MICRO-VPAC II			COMMENTS
	Year Installed	1977			
354.3	<b>HVAC</b>				
	Condition				
	Type				
	Manufacturer				
	Year Installed				
364	Flow Meter	SPARLING TIGERMAGEP			
364	Chart Recorder	ISCO 4501 PS MONITOR			
354.3	Hydrants				
	<b>GROUNDS</b>				
354.3	Fence Length	160 LF			
	Fence Type	CHAIN LINK			
	Year Installed				
354.3	Paving and Walkways	ASPHALT	CONCRETE WALK		
371.3	<b>ODOR CONTROL</b>				
	Manufacturer	GENERAL ELECTRIC			
	Type	BLOWER			
	<b>MISCELLANEOUS</b>				
	Other Buildings				
	Spare Parts				
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

DESCRIPTION OF FACILITY

**Pump Station #2**

**Facility Description (see attached Information Sheet)**

Pump Station #2 is located at 42 Devon Road and is equipped with two submersible Flygt NT-3153.185 pumps with a permitted peak flow of 700 GPM controlled with soft starts. Wastewater is discharged through a 1,555 LF force main, starting as 4-inch ductile iron at the pump station, transitioning to 8-inch ductile iron along Devon Road before it ties into the Township's existing sewage collection system at Manhole 2-212 at the intersection of Devon Road and Grubb Road. The pump station was originally installed in 1977 with pump upgrades performed in 2015.

The station is two levels deep with a wet well and dry well configuration. The wet well is concrete (11.5 ft x 8 ft deep). The control panel is manufactured by Westinghouse. There are two 6-inch gate valves and two 6-inch check valves. The influent line to the wet well contains a Franklin Miller grinder operated via a 3 HP hydraulic power pack. The station has a Sparling TigerMagEP flow meter and a ISCO chart recorder.

The building (550 SF) is constructed of brick exterior with CMU interior and fiberglass shingle roof in good condition. The building contains overhead fluorescent lighting, a fiberglass double door, and one single fiberglass door.

The Generator is an Onan 55 KW unit with two propane tanks. The Automatic Transfer Switch (ATS) is manufactured by Westinghouse.

The entire property is surrounded by approximately 160 LF of chain link fence. The facility has an inactive blower system for odor control.

**Property Condition**

The building and all mechanical and electrical equipment are in fair to good condition.

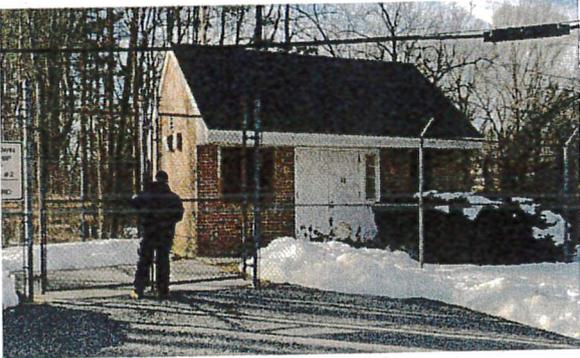


Figure 1 – Building Exterior



Figure 2 – Submersible Pumps

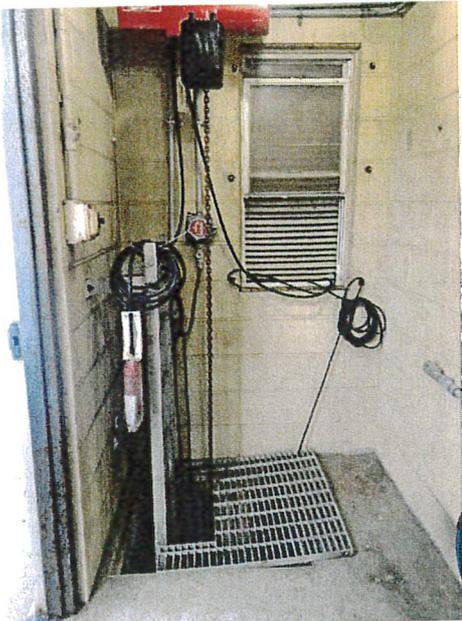


Figure 3 – Wet Well Exterior

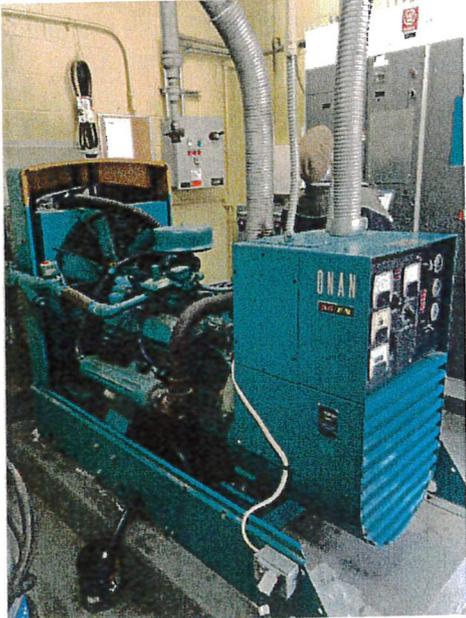


Figure 4 – Generator

PUMP STATION				Scheduled Visit Date:	2/17/2021
Station Name		Pump Station #2	Phone #		
Location		42 Devon Rd, Malvern, PA			
Start Up Date		1977			
CODE	SUBCODE	PUMP STATION			COMMENTS
371.3		<b>PUMP(S)</b>			
371.3		Condition			
		No. of Pumps	2		
		Type	SUBMERSIBLE		
		Pump Manufacturer	XYLEM		
		Pump Model Number	FLYGT NT-3153.185		
		Year Installed	2015		
		Pump GPM	700		
		Pump TDH Ft.	52		
		Outlet Size	4"		
		Motor HP	15		
		Motor Voltage	230		
371.3		Pump Control (VFD?)	SQUARE D - SOFT START		
370.3		<b>WET WELL</b>			
		Condition			
		Size	11.5' x 8' DEEP		
		Material	CONCRETE		
		Lined			
		Hatch			
		Vent			
		Rails			
		Cable			
		Piping			
371.3		<b>CONTROL PANEL</b>			
		Manufacturer	WESTINGHOUSE		
		Year Installed	1977		
		Model/Serial number			
361		<b>INFLUENT PIPING (IF KNOWN)</b>			
		Material	DIP		
		Diameter	8"		
371		<b>GRINDER</b>			
		Manufacturer	FRANKLIN MILLER		
		Model/Serial number	TM8532		
		HP	3		
		Year Installed			
371		<b>CRAIN/HOIST</b>			
		Manufacturer	MILWAUKEE		
		Model/Serial number	2 TON		
		Year Installed			
360		<b>VALVE VAULT</b>			
		Type	CHECK VALVE	GATE VALVE	
		Manufacturer	KENNEDY	KENNEDY	
		Size	6"	6"	
		#	2	2	
		Year Installed			
355		<b>GENERATOR</b>			
		Manufacturer	ONAN		
		Generator KW	55		
		Generator KVA	69		
		Fuel Tank (Gals)	PROPANE		
355		ATS (manf/model #)	WESTINGHOUSE		
		Year Installed	1977		
360		<b>FORCE MAIN</b>			
		Force Main Size	8"		
		Force Main Mat.	DIP		
		Length In Feet	1555 LF		
		Year Installed	1977		
		Discharge Point	MH 2-212		
		Discharge Point Location			

354.2	<b>BUILDING</b>				
	Condition				
	Size	550 SF			
	Main Structure Material	BRICK			
	Roof Type	FIBERGLASS			
	Roof Condition				
	Doors (number /material)	3/FIBERGLASS			
	Lighting (Type)	FLUORESCENT			
	Year Installed	1977			
	<b>ELECTRICAL</b>				
371.3	MCC	WESTINGHOUSE			
396	Alarm System (manf/ model)	CONSOLIDATED ELECTRIC/D 152 CONTROLLER			COMMENTS
	Year Installed	1977			
354.3	<b>HVAC</b>				
	Condition				
	Type				
	Manufacturer				
	Year Installed				
364	Flow Meter	SPARLING TIGERMAGEP			
364	Chart Recorder	ISCO 4501 PS MONITOR			
354.3	Hydrants				
	<b>GROUNDS</b>				
354.3	Fence Length	160 LF			
	Fence Type	CHAIN LINK			
	Year Installed				
354.3	Paving and Walkways	ASPHALT	CONCRETE WALK		
371.3	<b>ODOR CONTROL</b>				
	Manufacturer	GENERAL ELECTRIC			
	Type	BLOWER			
	<b>MISCELLANEOUS</b>				
	Other Buildings				
	Spare Parts	DESCRIPTION OF FACILITY			
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

**Pump Station #3**

**Facility Description (see attached Information Sheet)**

Pump Station #3 is located at 7 Pond Lane and is equipped with three submersible Flygt NP-3315 HT3 pumps with a permitted peak flow of 1000 GPM controlled with VFDs. Wastewater is discharged through a 6,264 LF force main, starting as 8-inch ductile iron at the pump station, and transitions to 14-inch ductile iron before it ties into the existing sewage collection system at Manhole 3-40 at the intersection of First Avenue and Grubb Road. The pump station was originally installed in 1977 with generator upgrades performed in 2010 and major pump upgrades performed in 2014.

The station is two levels deep with a wet well and dry well configuration. The wet well is concrete (16 ft x 9 ft x 7.5 ft deep). The control panel is manufactured by Flygt. There are three 8-inch gate valves and three 8-inch check valves. The influent line to the wet well contains a Muffin Monster grinder operated via a 3 HP hydraulic power pack. The station has a FloMotion Systems flow meter.

The building (880 SF) is constructed of brick exterior with CMU interior and fiberglass shingle roof in good condition. The building contains overhead fluorescent lighting, a fiberglass double door, and a fiberglass single door.

The Generator is a Penn Power Systems 450 KW unit with 875-gallon diesel tank. The Automatic Transfer Switch (ATS) is manufactured by Emerson.

The entire property is surrounded by approximately 225 LF of chain link fence. The facility has an inactive blower system onsite for odor control.

**Property Condition**

The building and all mechanical and electrical equipment are in good condition.

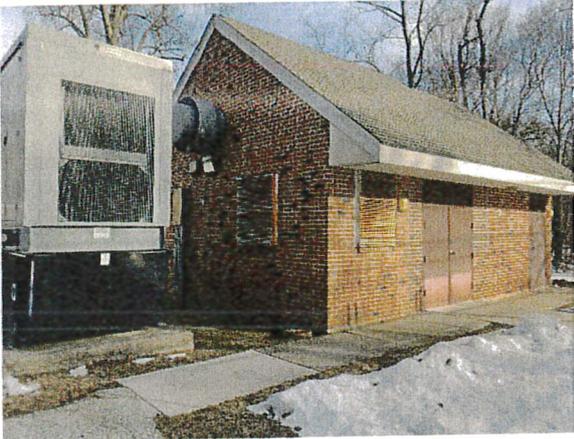


Figure 1 – Building Exterior



Figure 2 – Muffin Monster Controls



Figure 3 – VFD



Figure 4 – Control Panel

PUMP STATION			Scheduled Visit Date:	2/17/2021
Station Name	Pump Station #3	Phone #		
Location	7 Pond Ln, Malvern, PA			
Start Up Date	1977			
CODE	SUBCODE	PUMP STATION		COMMENTS
371.3		<b>PUMP(S)</b>		
371.3		Condition		
		No. of Pumps	3	
		Type	SUBMERSIBLE	
		Pump Manufacturer	XYLEM	
		Pump Model Number	FLYGT NP-3315.090	
		Year Installed	2014	
		Pump GPM	1000	
		Pump TDH Ft.	263	
		Outlet Size	6"	
		Motor HP	160	
		Motor Voltage	460	
371.3		Pump Control (VFD?)	VFDs	
370.3		<b>WET WELL</b>		
		Condition		
		Size	16' x 9' x 7.5' DEEP	
		Material	CONCRETE	
		Lined		
		Hatch		
		Vent		
		Rails		
		Cable		
		Piping		
371.3		<b>CONTROL PANEL</b>		
		Manufacturer	FLYGT	
		Year Installed	2014	
		Model/Serial number	MULTISMART	
361		<b>INFLUENT PIPING (IF KNOWN)</b>		
		Material	14"	
		Diameter	DIP	
371		<b>GRINDER</b>		
		Manufacturer	MUFFIN MONSTER	
		Model/Serial number	30005-0032	
		HP	3	
		Year Installed		
371		<b>CRAIN/HOIST</b>		
		Manufacturer	CM	
		Model/Serial number	LODESTAR	
		Year Installed		
360		<b>VALVE VAULT</b>		
		Type	CHECK VALVE	GATE VALVE
		Manufacturer		
		Size	8"	8"
		#	3	3
		Year Installed		
355		<b>GENERATOR</b>		
		Manufacturer	PENN POWER SYSTEMS	
		Generator KW	450	
		Generator KVA	2014	
		Fuel Tank (Gals)	875	
355		ATS (manf/model #)	EMERSON/ASCO 4000 SERIES	
		Year Installed	2010	
360		<b>FORCE MAIN</b>		
		Force Main Size	14"	
		Force Main Mat.	DIP	
		Length in Feet	6264 LF	
		Year Installed	1977	
		Discharge Point	MH 3-40	
		Discharge Point Location		

354.2	<b>BUILDING</b>				
	Condition				
	Size	880 SF			
	Main Structure Material	BRICK			
	Roof Type	FIBERGLASS			
	Roof Condition				
	Doors (number /material)	3/FIBERGLASS			
	Lighting (Type)	FLUORESCENT			
	Year Installed	1977			
	<b>ELECTRICAL</b>				
371.3	MCC	SCHNEIDER ELECTRIC			
396	Alarm System (manf/ model)	VERBATIM/SERIES VSS			COMMENTS
	Year Installed				
354.3	<b>HVAC</b>				
	Condition				
	Type	BLOWER			
	Manufacturer	COOK			
	Year Installed				
364	Flow Meter	FLOMOTION SYSTEMS			
364	Chart Recorder				
354.3	Hydrants				
	<b>GROUNDS</b>				
354.3	Fence Length	225 LF			
	Fence Type	CHAIN LINK			
	Year Installed				
354.3	Paving and Walkways	ASPHALT	CONCRETE WALK		
371.3	<b>ODOR CONTROL</b>				
	Manufacturer				
	Type				
	<b>MISCELLANEOUS</b>				
	Other Buildings				
	Spare Parts	<b>DESCRIPTION OF FACILITY</b>			
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

**Pump Station #4**

**Facility Description (see attached Information Sheet)**

Pump Station #4 is located at 135 Line Road and is equipped with two submersible ABS K89F-VE1194 pumps with a permitted peak flow of 250 GPM. Wastewater is discharged through a 10,482 LF 6-inch HDPE force main that ties into the Township's existing sewage collection system at Manhole 3-88 at the intersection of School Lane and Long Lane. The pump station was originally installed in 2006.

The wet well is concrete (7 ft dia. x 20 ft deep) with a 4.5 ft x 4 ft double leaf aluminum hatchway. The control panel is manufactured by ABS. There are three 4-inch gate valves and three 4-inch check valves. The influent line to the wet well contains a Muffin Monster grinder operated via a 3 HP hydraulic power pack. The station has a Sparling flow meter with a Chessell paper chart recorder.

The building (805 SF) is constructed of stone exterior with CMU interior and fiberglass shingle roof in good condition. The building contains overhead fluorescent lighting and a hollow metal double door.

The Generator is a Cummins 80 KW unit with diesel tank. The Automatic Transfer Switch (ATS) is manufactured by Cummins.

The entire property is surrounded by approximately 250 LF of chain link fence.

**Property Condition**

The building and all mechanical and electrical equipment are in good condition.



Figure 1 – Building Exterior



Figure 2 – Wet Well Exterior



Figure 3 – Wet Well Interior



Figure 4 – Generator

<b>PUMP STATION</b>				<b>Scheduled Visit Date:</b>	2/17/2021
Station Name		Pump Station #4	Phone #		
Location		135 Line Rd, Malvern, PA			
Start Up Date		2006			
CODE	SUBCODE	PUMP STATION			COMMENTS
371.3		<b>PUMP(S)</b>			
371.3		Condition			
		No. of Pumps	2		
		Type	SUBMERSIBLE		
		Pump Manufacturer	ABS		
		Pump Model Number	K89F - VE1194		
		Year Installed	2006		
		Pump GPM	250		
		Pump TDH Ft.	137		
		Outlet Size	4"		
		Motor HP	32		
		Motor Voltage	460		
371.3		Pump Control (VFD?)	FLOAT		
370.3		<b>WET WELL</b>			
		Condition			
		Size	7' DI x 20' DEEP		
		Material	CONCRETE		
		Lined			
		Hatch	4.5' x 4' DOUBLE LEAF ALUMINUM HATCH		
		Vent			
		Rails	STAINLESS STEEL		
		Cable	STAINLESS STEEL		
		Piping			
371.3		<b>CONTROL PANEL</b>			
		Manufacturer	ABS		
		Year Installed	2006		
		Model/Serial number			
361		<b>INFLUENT PIPING (IF KNOWN)</b>			
		Material	PVC SDR 35		
		Diameter	8"		
371		<b>GRINDER</b>			
		Manufacturer	MUFFIN MONSTER		
		Model/Serial number	30005-0012		
		HP	3		
		Year Installed	2006		
371		<b>CRAIN/HOIST</b>			
		Manufacturer			
		Model/Serial number			
		Year Installed			
360		<b>VALVE VAULT</b>			
		Type	CHECK VALVE	GATE VALVE	
		Manufacturer			
		Size	4"	4"	
		#	3	3	
		Year Installed	2006	2006	
355		<b>GENERATOR</b>			
		Manufacturer	CUMMINS		
		Generator KW	80		
		Generator KVA	100		
		Fuel Tank (Gals)	DIESEL		
355		ATS (manf/model #)	CUMMINS		
		Year Installed	2006		
360		<b>FORCE MAIN</b>			
		Force Main Size	6"		
		Force Main Mat.	HDPE		
		Length in Feet	9789		
		Year Installed	2006		
		Discharge Point	MH 3-88		
		Discharge Point Location			

354.2	<b>BUILDING</b>				
	Condition				
	Size	805 SF			
	Main Structure Material	STONE			
	Roof Type	FIBERGLASS			
	Roof Condition				
	Doors (number /material)	2/HOLLOW METAL			
	Lighting (Type)	FLUORESCENT			
	Year Installed	2006			
	<b>ELECTRICAL</b>				
371.3	MCC	SCHNEIDER ELECTRIC			
396	Alarm System (manf/ model)	VERBATIM/SERIES VSS			COMMENTS
	Year Installed	2006			
354.3	<b>HVAC</b>				
	Condition				
	Type				
	Manufacturer				
	Year Installed				
364	Flow Meter	SPARLING			
364	Chart Recorder	CHESELL			
354.3	Hydrants				
	<b>GROUND</b>				
354.3	Fence Length	250 LF			
	Fence Type	CHAIN LINK			
	Year Installed	2006			
354.3	Paving and Walkways	ASPHALT	CONCRETE WALK		
371.3	<b>ODOR CONTROL</b>				
	Manufacturer				
	Type				
	<b>MISCELLANEOUS</b>				
	Other Buildings				
	Spare Parts				
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

DESCRIPTION OF FACILITY

**Pump Station #5 – Penn’s Preserve**

**Facility Description (see attached Information Sheet)**

Pump Station #5 is located at 5315 West Chester Pike and is equipped with two submersible Flygt NP-3153.095 pumps with a permitted peak flow of 195 GPM. Wastewater is discharged through a 3,169 LF 6-inch PVC force main that discharges directly to the Penn’s Preserve WWTP aeration lagoons. The pump station was installed in 1998 with building upgrades performed in 2011 and pump upgrades performed in 2019.

The wet well is concrete (4 ft x 7 ft x 40 ft deep) with a 4 ft x 6 ft aluminum hatchway. The control panel is manufactured by Flygt. There are two 4-inch gate valves and two 4-inch check valves. The effluent line contains a Muffin Monster grinder operated via a 3 HP hydraulic power pack. The station has a Bailey Fischer Porter paper chart recorder.

The Building (505 SF) is constructed of stone exterior with CMU interior and an asphalt shingle roof in good condition. The building contains overhead fluorescent lighting and a fiberglass double door.

The generator is a Kohler 81 KW unit. The Automatic Transfer Switch (ATS) is manufactured by Kohler.

**Property Condition**

The building and all mechanical and electrical equipment are in good condition.



Figure 1 – Building Exterior



Figure 2 – Wet Well Interior



Figure 3 – Control Panel



Figure 4 – ATS

<b>PUMP STATION</b>				Scheduled Visit Date:	2/17/2021
Station Name		Pump Station #5	Phone #		
Location		5315 West Chester Pk, Newton Square, PA			
Start Up Date		1998			
CODE	SUBCODE	PUMP STATION			COMMENTS
371.3		<b>PUMP(S)</b>			
371.3		Condition			
		No. of Pumps	2		
		Type	SUBMERSIBLE		
		Pump Manufacturer	XYLEM		
		Pump Model Number	FLYGT NP-3153.095		
		Year Installed	2019		
		Pump GPM	195		
		Pump TDH Ft.			
		Outlet Size	4"		
		Motor HP	23		
		Motor Voltage	460		
371.3		Pump Control (VFD?)			
370.3		<b>WET WELL</b>			
		Condition			
		Size	4' x 7' x 40' DEEP		
		Material	CONCRETE		
		Lined			
		Hatch	4' x 6' ALUMINUM HATCH		
		Vent	4" DI	4" DI	
		Rails			
		Cable			
		Piping			
371.3		<b>CONTROL PANEL</b>			
		Manufacturer	FLYGT		
		Year Installed	2019		
		Model/Serial number	MULTISMART		
361		<b>INFLUENT PIPING (IF KNOWN)</b>			
		Material	DIP		
		Diameter	8"		
371		<b>GRINDER</b>			
		Manufacturer	MUFFIN MONSTER		
		Model/Serial number	30004T-1204		
		HP	3		
		Year installed			
371		<b>CRAIN/HOIST</b>			
		Manufacturer	COFFING		
		Model/Serial number			
		Year Installed			
360		<b>VALVE VAULT</b>			
		Type	CHECK VALVE	GATE VALVE	
		Manufacturer	KENNEDY	KENNEDY	
		Size	4"	4"	
		#	2	2	
		Year installed	1998	1998	
355		<b>GENERATOR</b>			
		Manufacturer	KOHLER		
		Generator KW	81		
		Generator KVA	101		
		Fuel Tank (Gals)			
355		ATS (manf/model #)	KOHLER		
		Year Installed	1998		
360		<b>FORCE MAIN</b>			
		Force Main Size	6"		
		Force Main Mat.	PVC		
		Length in Feet	3169 LF		
		Year Installed	1998		
		Discharge Point	PENN'S PRESERVE WWTP BAR SCREEN		
		Discharge Point Location			



**Dovecote PS**

**Facility Description (see attached Information Sheet)**

Dovecote PS is located on 10 Dovecote Lane and is equipped with two Hydromatic G2HX750JD submersible grinder pumps. Wastewater is discharged through an 1,847 LF 2-inch PVC force main that ties into the existing sewage collection system at Manhole 3-88 at the intersection of School Lane and Long Lane. The pump station was installed in 1998 and dedicated to the Township at the end of 2018.

The pump wet well is concrete (6 ft x 6 ft x 18.5 ft deep) with a 36-inch x 54-inch aluminum hatchway. The control panel is manufactured by Healy-Ruff. There are two 2-inch gate valves. The pump station does not have a flow meter.

There is no building or enclosure at this site.

The pump station does not have a generator.

The pump station is surrounded by approximately 42 LF of chain link fence.

**Property Condition**

The mechanical and electrical equipment are in good condition.

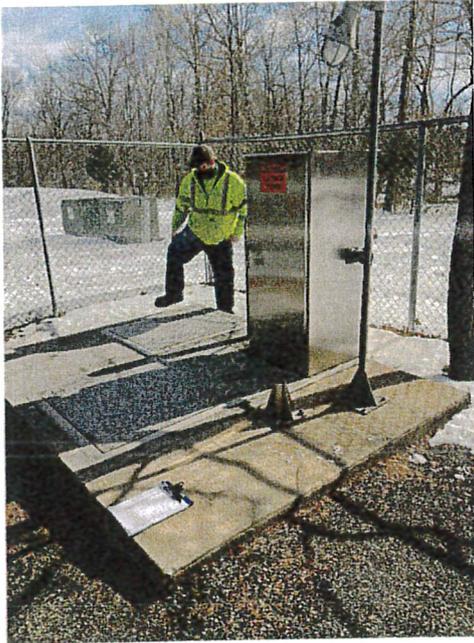


Figure 1 – Pump Station Site



Figure 2 – Control Panel



Figure 3 – Wet Well Interior



Figure 4 – Valve Vault

<b>PUMP STATION</b>				Scheduled Visit Date:	2/17/2021
Station Name		Dovecote Pump Station	Phone #		
Location		10 Dovecote Ln, Malvern, PA			
Start Up Date		1998			
CODE	SUBCODE	PUMP STATION			COMMENTS
371.3		<b><u>PUMP(S)</u></b>			
371.3		Condition			
		No. of Pumps	2		
		Type	SUBMERSIBLE GRINDER		
		Pump Manufacturer	HYDROMATIC		
		Pump Model Number	G2HX750JD		
		Year Installed	1998		
		Pump GPM			
		Pump TDH Ft.			
		Outlet Size	2"		
		Motor HP	7.5		
		Motor Voltage	240		
371.3		Pump Control (VFD?)	FLOAT		
370.3		<b><u>WET WELL</u></b>			
		Condition			
		Size	6' x 6' x 18.5' DEEP		
		Material	CONCRETE		
		Lined	BITUMASTIC COATING		
		Hatch	36" x 54" ALUMINUM HATCH		
		Vent	4" WELDED STEEL	W/ SCREEN	
		Rails	SS		
		Cable	SS (PRIMARY)	NYLON ROPE (BACKUP)	
		Piping			
371.3		<b><u>CONTROL PANEL</u></b>			
		Manufacturer	HEALY-RUFF		
		Year Installed	1998		
		Model/Serial number	MICRO VPAC II		
361		<b><u>INFLUENT PIPING (IF KNOWN)</u></b>			
		Material	SDR-35		
		Diameter	8"		
371		<b><u>GRINDER</u></b>			
		Manufacturer			
		Model/Serial number			
		HP			
		Year Installed			
371		<b><u>CRAIN/HOIST</u></b>	N/A		
		Manufacturer			
		Model/Serial number			
		Year Installed			
360		<b><u>VALVE VAULT</u></b>			
		Type	GATE VALVE		
		Manufacturer			
		Size	2"		
		#	2		
		Year Installed	1998		
355		<b><u>GENERATOR</u></b>			
		Manufacturer			
		Generator KW			
		Generator KVA			
		Fuel Tank (Gals)			
355		ATS (manf/model #)			
		Year Installed			
360		<b><u>FORCE MAIN</u></b>			
		Force Main Size	2"		
		Force Main Mat.	PVC SDR-21		
		Length in Feet	1847 LF		
		Year Installed	1998		
		Discharge Point	MH 3-88		
		Discharge Point Location			

354.2	<b>BUILDING</b>				
	Condition				
	Size	N/A			
	Main Structure Material	N/A			
	Roof Type	N/A			
	Roof Condition	N/A			
	Doors (number /material)	N/A			
	Lighting (Type)	VAPOPROOF INCANDESCENT FIXTURE (STANCHION MOUNT 7'-0 HIGH)			
	Year Installed	1998			
	<b>ELECTRICAL</b>				
371.3	MCC	PUMPAK			
396	Alarm System (manf/ model)	VERBATIM/SERIES VSS			COMMENTS
	Year Installed	1998			
354.3	<b>HVAC</b>				
	Condition				
	Type				
	Manufacturer				
	Year Installed				
364	Flow Meter				
364	Chart Recorder				
354.3	Hydrants				
	<b>GROUNDS</b>				
354.3	Fence Length	42 LF			
	Fence Type	CHAIN LINK			
	Year Installed	1998			
354.3	Paving and Walkways	CONCRETE PAD			
371.3	<b>ODOR CONTROL</b>				
	Manufacturer				
	Type				
	<b>MISCELLANEOUS</b>				
	Other Buildings				
	Spare Parts				DESCRIPTION OF FACILITY
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

**Booster PS #1 - Jaffrey**

**Facility Description (see attached Information Sheet)**

Booster PS #1 is located on 107 Jaffrey Road and is equipped with two Franklin Electric IDP-A231-20 submersible grinder pumps with a permitted peak flow of 30 GPM. Wastewater is discharged through a 1,281 LF 2.5-inch pressure main to Booster Pump Station #2 on Grubb Road. Booster Pump Station #1 was installed in 2001.

The pump wet well is fiberglass (3 ft dia. x 12 ft deep) with a removable 3 ft diameter fiberglass cover. The control panel is manufactured by UL. There are two 2-inch gate valves and two 2-inch check valves. The booster station does not have a flow meter.

There is no building or enclosure at this site.

The wet well is surrounded by six concrete bollards.

**Property Condition**

The mechanical and electrical equipment are in good condition.



Figure 1 – Booster Pump Station Site

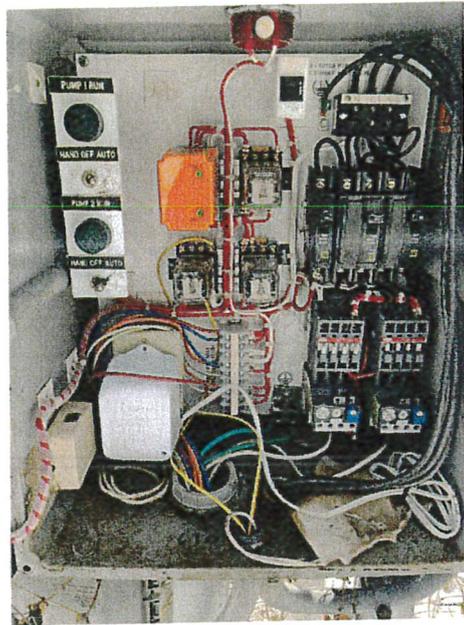


Figure 2 – Control Panel

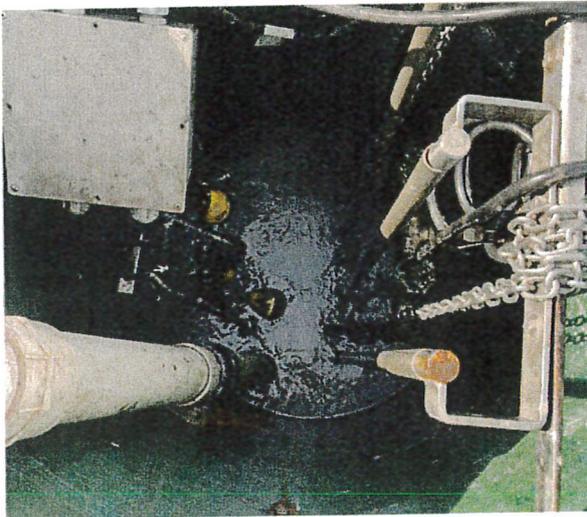


Figure 3 – Wet Well Interior

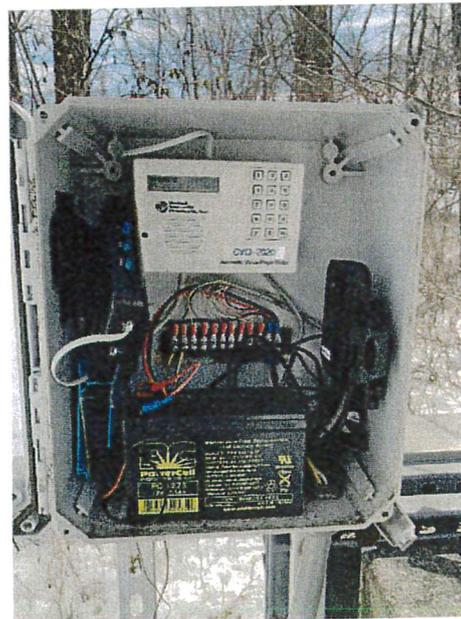


Figure 4 – Alarm System

PUMP STATION				Scheduled Visit Date:	2/17/2021
Station Name		Booster Pump Station #1	Phone #		
Location		107 Jaffrey Rd, Malvern, PA			
Start Up Date		2001			
CODE	SUBCODE	PUMP STATION			COMMENTS
371.3		<b>PUMP(S)</b>			
371.3		Condition			
		No. of Pumps	2		
		Type	GRINDER		
		Pump Manufacturer	FRANKLIN ELECTRIC		
		Pump Model Number	IGP-A231-20		
		Year Installed	2001		
		Pump GPM	30		
		Pump TDH Ft.	60		
		Outlet Size	2"		
		Motor HP	2		
		Motor Voltage	230		
371.3		Pump Control (VFD?)	FLOAT		
370.3		<b>WET WELL</b>			
		Condition			
		Size	3' DI x 12' DEEP		
		Material	FIBERGLASS		
		Lined			
		Hatch			
		Vent			
		Rails			
		Cable			
		Piping			
371.3		<b>CONTROL PANEL</b>			
		Manufacturer	UL		
		Year Installed	2001		
		Model/Serial number	AZ721266		
361		<b>INFLUENT PIPING (IF KNOWN)</b>			
		Material	SDR 21 PVC		
		Diameter	2"		
371		<b>GRINDER</b>	N/A		
		Manufacturer			
		Model/Serial number			
		HP			
		Year Installed			
371		<b>CRAIN/HOIST</b>	N/A		
		Manufacturer			
		Model/Serial number			
		Year Installed			
360		<b>VALVE VAULT</b>			
		Type	CHECK VALVE	GATE VALVE	
		Manufacturer			
		Size	2"	2"	
		#	2	2	
		Year Installed	2001	2001	
355		<b>GENERATOR</b>			
		Manufacturer			
		Generator KW			
		Generator KVA			
		Fuel Tank (Gals)			
355		ATS (manf/model #)			
		Year Installed			
360		<b>FORCE MAIN</b>			
		Force Main Size	2.5"		
		Force Main Mat.	SDR 21 PVC		
		Length in Feet	6534 LF		
		Year Installed	2001		
		Discharge Point	MH 3-52		
		Discharge Point Location			

354.2	<b>BUILDING</b>	N/A			
	Condition				
	Size				
	Main Structure Material				
	Roof Type				
	Roof Condition				
	Doors (number /material)				
	Lighting (Type)				
	Year Installed				
	<b>ELECTRICAL</b>				
371.3	MCC	BREAKERS IN CONTROL PANEL			
396	Alarm System (manf/ model)	UNITED SECURITY PRODUCTS/CVD-2020			COMMENTS
	Year Installed	2001			
354.3	<b>HVAC</b>				
	Condition				
	Type				
	Manufacturer				
	Year Installed				
364	Flow Meter	N/A			
364	Chart Recorder				
354.3	Hydrants				
	<b>GROUND</b>	N/A			BOLLARDS AROUND WETWELL
354.3	Fence Length				
	Fence Type				
	Year Installed				
354.3	Paving and Walkways				
371.3	<b>ODOR CONTROL</b>	N/A			
	Manufacturer				
	Type				
	<b>MISCELLANEOUS</b>				
	Other Buildings				
	Spare Parts				
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

**Booster PS #2 - Appleton**

**Facility Description (see attached Information Sheet)**

Booster PS #2 is located on the property of 158 Grubb Road and is equipped with two Franklin Electric IDP-A231-20 submersible grinder pumps with a permitted peak flow of 30 GPM. Wastewater is discharged through a 5,253 LF pressure main, starting as 3-inch PVC at the pump station, and transitions to 4-inch PVC before it ties into the existing gravity sewage collection system at Manhole 3-52 at the intersection of Clearview Road and Rambling Lane. The booster pump station was installed in 2001.

The pump wet well is fiberglass (3 ft dia. x 12 ft deep) with a removable 3 ft diameter fiberglass cover. The control panel is manufactured by UL. There are two 2.5-inch gate valves and two 2.5-inch check valves. The booster station does not have a flow meter.

There is no building or enclosure at this site.

**Property Condition**

The mechanical and electrical equipment are in good condition.



Figure 1 – Booster Pump Station Site



Figure 2 – Wet Well Exterior

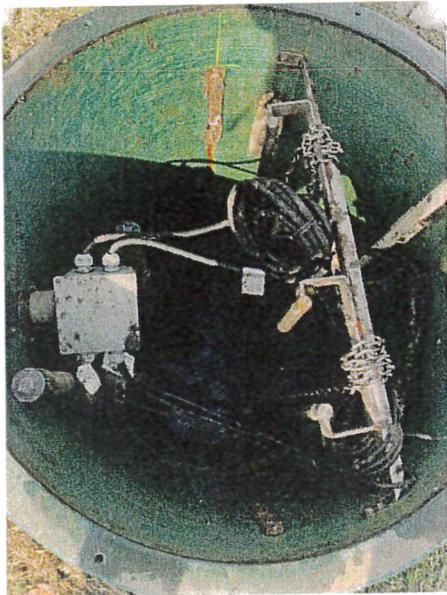


Figure 3 – Wet Well Interior

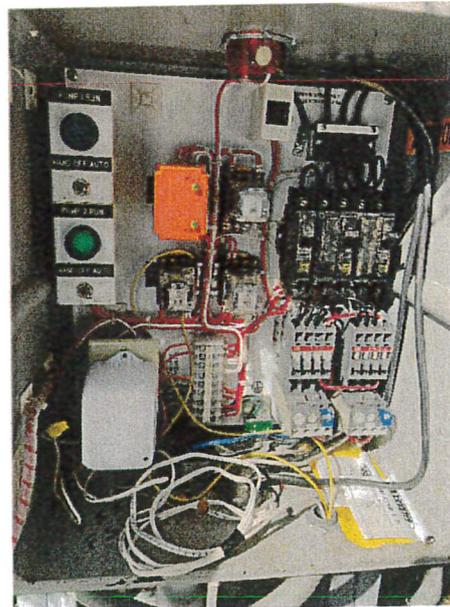


Figure 4 – Control Panel

PUMP STATION				Scheduled Visit Date:	2/17/2021
Station Name		Booster Pump Station #2	Phone #		
Location		158 Grubb Rd, Malvern, PA			
Start Up Date		2001			
CODE	SUBCODE	PUMP STATION			COMMENTS
371.3		<b>PUMP(S)</b>			
371.3		Condition			
		No. of Pumps	2		
		Type	GRINDER		
		Pump Manufacturer	FRANKLIN ELECTRIC		
		Pump Model Number	IGP-A231-20		
		Year Installed	2001		
		Pump GPM	30		
		Pump TDH Ft.	60		
		Outlet Size	2"		
		Motor HP	2		
		Motor Voltage	230		
371.3		Pump Control (VFD?)	FLOAT		
370.3		<b>WET WELL</b>			
		Condition			
		Size	3' DI x 12' DEEP		
		Material	FIBERGLASS		
		Lined			
		Hatch			
		Vent			
		Rails			
		Cable			
		Piping			
371.3		<b>CONTROL PANEL</b>			
		Manufacturer	UL		
		Year Installed	2001		
		Model/Serial number	AZ721265		
361		<b>INFLUENT PIPING (IF KNOWN)</b>			
		Material	SDR 21 PVC		
		Diameter	2.5"		
371		<b>GRINDER</b>	N/A		
		Manufacturer			
		Model/Serial number			
		HP			
		Year Installed			
371		<b>CRAIN/HOIST</b>	N/A		
		Manufacturer			
		Model/Serial number			
		Year Installed			
360		<b>VALVE VAULT</b>			
		Type	CHECK VALVE	GATE VALVE	
		Manufacturer			
		Size	2.5"	2.5"	
		#	2	2	
		Year Installed	2001	2001	
355		<b>GENERATOR</b>			
		Manufacturer			
		Generator KW			
		Generator KVA			
		Fuel Tank (Gals)			
355		ATS (manf/model #)			
		Year Installed			
360		<b>FORCE MAIN</b>			
		Force Main Size	3"		
		Force Main Mat.	SDR 21 PVC		
		Length in Feet	5253 LF		
		Year Installed	2001		
		Discharge Point	MH 3-52		
		Discharge Point Location			

354.2	<b>BUILDING</b>	N/A			
	Condition				
	Size				
	Main Structure Material				
	Roof Type				
	Roof Condition				
	Doors (number /material)				
	Lighting (Type)				
	Year Installed				
	<b>ELECTRICAL</b>				
371.3	MCC	BREAKERS IN CONTROL PANEL			
396	Alarm System (manf/ model)	UNITED SECURITY PRODUCTS/CVD-2020			COMMENTS
	Year Installed	2001			
354.3	<b>HVAC</b>				
	Condition				
	Type				
	Manufacturer				
	Year Installed				
364	Flow Meter	N/A			
364	Chart Recorder				
354.3	Hydrants				
	<b>GROUNDS</b>	N/A			
354.3	Fence Length				
	Fence Type				
	Year Installed				
354.3	Paving and Walkways				
371.3	<b>ODOR CONTROL</b>	N/A			
	Manufacturer				
	Type				
	<b>MISCELLANEOUS</b>				
	Other Buildings				
	Spare Parts				
	Vac Truck Suitable				
	Spare Parts				
	Vac Truck Suitable				

#### 4.3. COLLECTION SYSTEM

Willistown Township owns the collection system in Willistown Township. The collection system consists of gravity piping, low-pressure systems, and force mains. The Township owns the portion of the laterals from the main to the curb. A map of the collection system and drainage areas can be found in Appendix A, Figure A1. Collection system related cost data can be found in Section 9 for the gravity mains, manholes and force/pressure mains under account codes 361.21, 361.23, and 360.21, respectively.

## 5. OWNED PROPERTY & EASEMENTS OF VALUE

The Township owns the properties upon which Pump Stations #1, #2, and #3, Booster Pump Station #1, and the Penn's Preserve WWTP are located. These Township-owned properties are included in Section 9 – "List of Assets and Costs".

Pump Station #4, Dovecote Pump Station, Booster Pump Station #2, and a portion of the Penn's Preserve WWTP are located on private properties in which sanitary sewer easements have been granted to the Township. The property on which Pump Station #5 is located has been dedicated to the existing right-of-way of West Chester Pike (Route 3), and therefore does not require an easement. The Township has also provided several sanitary sewer easement agreements for various properties throughout the Township in which the sanitary sewer collection system runs through. The prices of these known easements are included in Section 9 – "List of Assets and Costs". There are a number of additional easements for the sewer system that are not provided but are believed to be of no value.

## 6. REGULATORY REQUIREMENTS

3600-PM-WQ0015 Rev. 8/94

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
WATER MANAGEMENT PROGRAM

PERMIT NO. 1597408  
AMENDMENT NO. \_\_\_\_\_

WATER QUALITY MANAGEMENT PERMIT

A. PERMITTEE (Name & Address): Willistown Township 688 Sugartown Road Malvern, PA 19355	
B. PROJECT (Name, County, Municipality) Mapleton Subdivision Willistown Township Chester County	
C. THIS: <input checked="" type="checkbox"/> Permit <input type="checkbox"/> Permit Amendment	
APPROVES: <input checked="" type="checkbox"/>	The construction/operation of: <input type="checkbox"/> Sewage Treatment Facilities <input type="checkbox"/> Land Application Facilities <input type="checkbox"/> Average Design Flow of _____
	Modification(s) to the construction/operation of: <input type="checkbox"/> Industrial Waste Treatment Facilities Other: _____ MGD consisting of: _____
<input checked="" type="checkbox"/>	<input type="checkbox"/> Sewers and Appurtenances <input type="checkbox"/> Impoundment(s) <input type="checkbox"/> Soil Erosion & Sedimentation Control Plan <input type="checkbox"/> Stream Crossing(s)
<input checked="" type="checkbox"/>	<input type="checkbox"/> Pump Station(s) <input type="checkbox"/> Injection Well(s) <input type="checkbox"/> Outfall & Headwall(s)
D. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING CONDITIONS:	
1. a. All construction, operations, and procedures shall be in accordance with the Water Quality Management Permit/Permit Amendment Application dated <u>July 8, 1997</u> , its supporting documentation, and addendums dated <u>September 3, 1997</u> . Such application, its supporting documentation and addendums are hereby made a part of this permit.	
b. Water Quality Management Permit No. _____ dated _____ and conditions, supporting documentation and addendums are (except for any modifications to the original permit herein permitted) also made a part of this permit amendment.	
2. Conditions numbered <u>1 through 7, 9, 10, 11, 13, 14, 16, 17, 18, 20, 21, 22</u> of the <u>sewerage</u> standard conditions dated <u>09/83</u> and conditions numbered <u>1-12</u> of the erosion control standard conditions dated <u>08/91</u> are attached and made part of this permit.	
3. Special conditions numbered <u>I</u> are attached and made part of this permit.	
E. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:	
1. If there is a conflict between the application or its supporting documents and amendments and the standard or special conditions, the standard or special conditions shall apply.	
2. Failure to comply with the rules and regulations of the Department or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of the permit.	
3. This permit is issued pursuant to the Clean Stream Law Act of June 22, 1937, P.L. 1987, as amended 35 P.S. § 691.1 et seq., and/or the Dam Safety and Encroachments Act of November 26, 1978, P.L. 1375, as amended, 32 P.S. § 693.1 et seq. Issuance of this permit shall not relieve the permittee of any responsibility under any other law.	
4. Industrial Facilities - If the herein permitted facilities or modifications are not completed within two (2) years of the issue date below, this permit will become null and void and reapplication shall be required.	
PERMIT ISSUED: DATE <u>09/11/97</u> AMENDMENT ISSUED: DATE _____	DEPARTMENT OF ENVIRONMENTAL PROTECTION BY: <u>[Signature]</u> TITLE: <u>Regional Manager, Water Management</u>

Sewerage Permit No. 1597408  
Willistown Township  
Willistown Township, Chester County

This permit is subject to the following Special Condition(s):

- I. Consistent with Department of Environmental Protection Policy, the Department did not conduct a detailed technical review of the application for this permit. The Department considers the registered professional engineer whose seal is affixed to the design documents, to be fully responsible for the adequacy of all aspects of the facility design.

Re 30 (RN)245-19



Pennsylvania Department of Environmental Protection

Lee Park, Suite 6010  
555 North Lane  
Conshohocken, PA 19428

March 31, 1998

610-832-6130

Fax 610-832-6133

Southeast Regional Office

Mr. Rosenberry  
Willistown Township  
688 Sugartown Road  
Malvern, PA 19355

RECEIVED

APR 03 1998

WILLISTOWN  
TOWNSHIP

Re: Sewerage Permit No. 1597417  
East Central Sanitary Sewer Project  
Willistown Township  
Chester County

Dear Mr. Rosenberry:

Referenced permit is enclosed.

Please study the permit carefully and direct any questions to the Permits Section of this office.

Please take the time to complete the enclosed questionnaire and return it in the pre-addressed and stamped envelope. Your response will be taken into account as we consider ways of improving our service to the public and regulated community. Thank you for your cooperation.

Sincerely,

Steve O'Neil  
Acting Regional Manager  
Water Management

Enclosures: Permit  
Standard Conditions Relating to Sewerage  
Standard Conditions Relating to Erosion Control

cc: Mr. Linahan, Yerkes Associates, Inc.  
Willistown Township  
Chester County Health Department  
Permits and Compliance  
Ms. W. Warren  
Re 30 (RN)9837-13c





Sewerage Permit No. 1597417  
Willistown Township  
Willistown Township, Chester County

This permit is subject to the following Special Condition(s):

1. If there is a change in ownership of this facility or in permittee name, an application for transfer of permit must be submitted to the Department.
2. Consistent with Department of Environmental Protection Policy, the Department did not conduct a detailed technical review of the application for this permit. The Department considers the registered professional engineer whose seal is affixed to the design documents, to be fully responsible for the adequacy of all aspects of the facility design.

Re 30 (RN)9837-13b

## STANDARD CONDITIONS RELATING TO SEWERAGE - PART II PERMITS

For use in Water Quality Management Permits

1. During construction, no changes affecting any engineering design parameter shall be made from the plans, designs, and other data herein approved unless the permittee shall first receive written approval thereof from the Department. The sewerage facilities shall be constructed under expert engineering supervision and competent inspection.
2. The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled such that the sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from injury by water, freezing, drying or other harmful conditions until cured.
3. Manhole inverts shall be so formed as to facilitate the flow of the sewage and to prevent the stranding of sewage solids, and the whole manhole structure shall have proper structural strength and be so constructed as to prevent undue infiltration, entrance of the street wash or grit, and to provide convenient and safe means of access and maintenance.
4. No stormwater from pavements, area ways, roofs, foundation drains or other sources shall be admitted to the sanitary sewers herein approved.
5. The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and on-lot sewage disposal systems on the premises of occupied structures which are accessible to public sewers and require the connection of such structures to the public sewers.
6. The herein approved sewers shall be maintained in good condition, kept free from deposits by flushing or other proper means of cleaning and repaired when necessary.
7. The permittee shall file with the Department of Environmental Resources "as-built" plans showing the correct plan of all sewers and sewerage structures as actually constructed together with any other information in connection therewith that may be required.
8. The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to assure the proper mixing and waste assimilation an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of navigable stream, provided that the permittee has secured an easement, right-of-way, license, or lease from the Department in accordance with Section 15 of the Dam Safety and Encroachment Act, the Act of November 26, 1978, P.L. 1375, as amended.
9. The approval herein given is specifically made contingent upon the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property, with full rights of ingress, egress and regress.
10. When the herein approved sewage treatment works is completed and before it is placed in operation, the permittee shall notify the Department in writing so that an inspection of the works may be made by a representative of the Department.
11. The various structures and apparatus of the sewage treatment works herein approved shall be maintained in proper condition so that the facility will individually and collectively perform the functions for which they were designed.
12. If, in the opinion of the Department, these works are not so operated or if by reason of change in the character of wastes or increased load upon the works, or changed use or condition of the receiving body of water, or otherwise the effluent from the said works ceases to be satisfactory or the sewerage facilities shall have created a public nuisance, then upon notice by the Department, the right herein granted shall cease and become null and void unless within the time specified by the Department, the permittee shall adopt such remedial measures as will produce an effluent which, in the opinion of the Department, will be satisfactory.

DEPARTMENT OF ENVIRONMENTAL RESOURCES  
STANDARD CONDITIONS RELATING TO EROSION CONTROL  
For Use in Water Quality Management Permits

August 1991

1. By approval of the plans for which this permit is issued, neither the Department nor the Commonwealth of Pennsylvania assumes any responsibility for the feasibility of the plans or the operation of the measures and facilities to be constructed thereunder.
2. If at any time the erosion and sedimentation activities undertaken pursuant to this permit or the discharge of the effluent therefrom is causing or contributing to pollution of the waters of the Commonwealth, the permittee shall forthwith adopt such remedial measures as are acceptable to the Department.
3. This permit does not authorize any earth disturbance controlled by an ordinance enacted by a local municipality. Additional permits must be secured from local municipalities where earthmoving activities are covered by local ordinances.
4. At least seven days before earthmoving will begin, the permittee, by telephone or certified mail, shall notify the Department or its designee of the date for beginning of construction and invite the County Conservation District Representative to attend a pre-construction conference with the contractor. The permittee shall have his erosion control plan available at the site of the activity at all times.
5. All earthmoving activities shall be undertaken in the manner set forth in the erosion and sedimentation control plan identified with this permit. Revisions to the plan shall be pre-approved by the Department.
6. The erosion control measures and facilities shall be constructed under the supervision and competent inspection of an individual trained and experienced in erosion control, and in accordance with plans, designs and other data as herein approved or amended, and with the conditions of this permit. Control facilities shall be frequently inspected and maintained to insure effective control.
7. When the herein approved erosion control measures and facilities are completed, the permittee shall notify the County Conservation District so that an inspection of the measures and facilities may be made.
8. No storm water, sewage or industrial wastes not specifically approved herein, shall be admitted to the erosion and sedimentation measures and facilities for which this permit is issued, unless with the approval of the Department.
9. Sediment shall at no time be permitted to accumulate in sedimentation basins to a depth sufficient to limit storage capacity or interfere with the settling efficiency thereof. The sediment removed shall be handled and disposed of in a manner that will not create pollution problems and so that every reasonable and practical precaution is taken to prevent the said material from reaching the waters of the Commonwealth.
10. All slopes, channels, ditches or any disturbed area shall be stabilized as soon as possible after the final grade or final earthmoving has been completed. Where it is not possible to permanently stabilize a disturbed area immediately after the final earthmoving has been completed or where the activity ceases for more than 20 days, interim stabilization measures shall be implemented promptly.
11. Upon completion of the project, all areas which were disturbed by the project shall be stabilized so that accelerated erosion will be prevented. Any erosion and sedimentation control facility required or necessary to protect areas from erosion during the stabilization period shall be maintained until stabilization is completed. Upon completion of stabilization, all unnecessary or unusable control measures and facilities shall be removed, the areas shall be graded and the soils shall be stabilized.
12. The responsibility of carrying out the permit conditions shall rest with the owner, lessee, assignee or other responsible manager of earthmoving that affects the approved erosion controls. Such responsibility passes with each control succession.



STATE OF PENNSYLVANIA

} SS

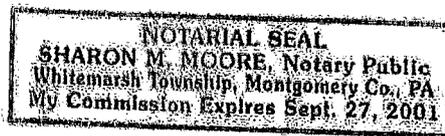
COUNTY OF

On the 31st day of March in the year one thousand  
nine hundred and Ninety Eight before me, the Subscriber, a Notary  
Public, came the above named

and duly acknowledged the foregoing permit to be his act and deed and desired  
that the same might be recorded as such.

Witness my hand and notarial seal the day and year aforesaid.

*Sharon M. Moore*  
NOTARY PUBLIC





Pennsylvania Department of Environmental Protection

2 East Main Street  
Norristown, PA 19401

November 1, 2005

Southeast Regional Office

Phone: 484-250-5970  
Fax: 484-250-5971

Mr. Hugh Murray, Manager  
Willistown Township  
688 Sugartown Road  
Malvern, PA 19355

Re: Willistown-Bryn Mawr Rehab Pump Station  
Sewerage 1505406  
File Type: Permit  
Willistown Township  
Chester County

Dear Mr. Murray:

Your permit is enclosed.

You must comply with all Standard and Special Conditions attached to this Permit. Construction must be done in accordance with the permit application and all supporting documentation. Please review the permit conditions and the supporting documentation submitted with your application before starting construction.

The Department of Environmental Protection (Department) also hereby approves the plan for decommissioning the existing Bryn Mawr Rehabilitation Hospital Waste Water Treatment Plant. Upon completion of the pump station, you must notify the Department so we can conduct a final inspection. Once the Department approves operation of the pump station, the treatment plant may be taken off-line in accordance with the approved decommissioning plan. Also notify the Department when the treatment plant is fully decommissioned so that the existing permits may be cancelled.

Enclosed is the "Sewage and Industrial Wastewater Facilities Construction Certification" form. A Pennsylvania-registered Professional Engineer must sign and complete this form prior to startup of the facilities (See Standard Conditions). You or your authorized representative must also sign the form. This certification and other post-construction documentation must be submitted to the Department.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717-787-3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800-654-5984. Appeals must be filed



Mr. Murray

-2-

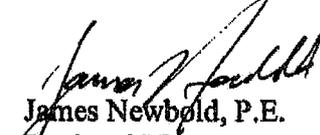
with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717-787-3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

**IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.**

**IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717-787-3483) FOR MORE INFORMATION.**

If you have any questions, please call Mr. David Talley at 484-250-5181.

Sincerely,

  
James Newbold, P.E.  
Regional Manager  
Water Management

Enclosures

cc: Mr. Duerr - Applied Water Management, Inc.  
Operations Section  
Water Management  
Permits Chief  
File  
Re (AR05WQM)141-17



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATER SUPPLY AND WASTEWATER MANAGEMENT

**WATER QUALITY MANAGEMENT  
PERMIT**

PERMIT NO. 1505406  
AMENDMENT NO. \_\_\_\_\_  
APS ID 546140  
AUTH ID 583306

<p>A. PERMITTEE (Name and Address): <b>Willistown Township 688 Sugartown Road Malvern, PA 19355</b></p>	<p>CLIENT ID#: <b>86424</b></p>	<p>B. PRIMARY FACILITY (Name): <b>Willistown – Bryn Mawr Rehab Pump Station</b></p>
<p>C. LOCATION (Municipality, County): <b>Willistown Township Chester County</b></p>		<p>SITE ID#: <b>255715</b></p>
<p>D. <b>This permit approves the construction and operation of sewerage facilities consisting of: A new pump station with associated force main and gravity lines, and an upgrade of existing pump Station No. 3.</b></p>		
<p>Pump Stations: <u>2</u> Design Capacity: <u>250 and 1,300</u> GPM Average Annual Flow: <u>19,440 and 445,000</u> GPD</p>	<p>Manure Storage: Volume _____ MG Freeboard: _____ inches</p>	<p>Industrial Wastewater/Sewage Treatment Facility: Annual Average Flow: _____ MGD Design Hydraulic Capacity: _____ MGD Design Organic Capacity: _____ lb/day</p>
<p>E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING:</p> <p>1. <b>New Permits:</b> All construction, operations, and procedures shall be in accordance with the Water Quality Management Permit application dated <u>01/27/05</u>, its supporting documentation, and addendums dated <u>05/10/05</u>, which are hereby made a part of this permit.</p> <p><b>Amendments:</b> All construction, operations, and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated _____ and its supporting documentation, and addendums dated _____, which are hereby made a part of this amendment.</p> <p>Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No. _____ dated _____ shall remain in effect.</p> <p><b>Transfers:</b> Water Quality Management Permit No. _____ dated _____ and conditions, supporting documentation and addendums are also made part of this transfer.</p> <p>2. <b>Permit Conditions Relating to sewerage</b> are attached and made part of this permit.</p> <p>3. Special Conditions numbered <u>I</u> are attached and made part of this permit.</p>		
<p>F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:</p> <p>1. If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply.</p> <p>2. Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit.</p> <p>3. This permit is issued pursuant to the Clean Streams Law Act of June 22, 1937, P.L. 1987, <u>as amended</u> 35 P.S. §691.1 et seq. Issuance of this permit shall not relieve the permittee of any responsibility under any other law.</p>		
<p>PERMIT ISSUED: <b>November 1, 2005</b></p>	<p>BY: <u><i>Jeanne J. Galbraith</i></u> TITLE: <u>Water Management Program Manager</u></p>	

**Sewerage Permit No. 1505406  
Willistown Township  
Chester County**

**This permit is subject to the following Special Condition(s):**

- I. The Department authorizes the construction of the referenced sewerage facilities. The Department recognizes that the facilities were designed to accommodate future flows for which Sewage Facilities Planning Approval has not been granted. Flows in the pump station, force main, and gravity lines must be restricted in accordance with the Department's October 20, 2004, Planning Approval letter, until such time as further sewerage facilities planning is adopted by Willistown Township and approved by the Department.

Re 30 (AR05WQM)141-19



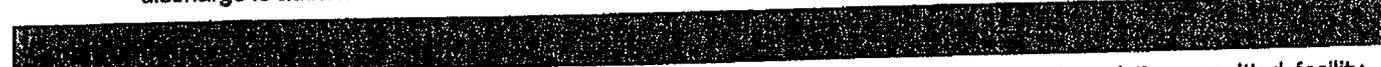
COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATER SUPPLY AND WASTEWATER MANAGEMENT

**PERMIT CONDITIONS RELATING TO SEWERAGE**  
For use in Water Quality Management Permits

(Place a  in the box that applies)



- 1. Consistent with the Department of Environmental Protection's (DEP) technical guidance document *Conducting Technical Reviews of Water Quality Management Permit Wastewater Treatment Facilities* (DEP ID: 362-2000-007) available on DEP's website at [www.dep.state.pa.us](http://www.dep.state.pa.us). DEP considers the registered Professional Engineer whose seal is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility design.
- 2. The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and onlot sewage disposal systems on the premises of occupied structures accessible to public sewers. All such structures must be connected to the public sewers.
- 3. The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to ensure proper mixing and waste assimilation, an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of a navigable stream provided that the permittee has secured an easement, right-of-way, license or lease from DEP in accordance with Section 15 of the Dam Safety and Encroachments Act, the Act of November 26, 1978, P.L. 1375, as amended.
- 4. The approval is specifically made contingent on the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property with full rights of ingress, egress and regress.
- 5. When construction of the approved sewerage facilities is completed and before they are placed in operation, the permittee shall notify DEP in writing so that a DEP representative may inspect the facilities.
- 6. If, at any time, the sewerage facilities covered by this permit create a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
- 7. This permit authorizes the construction and operation of the proposed sewerage facilities until such time as facilities for conveyance and treatment at a more suitable location are installed and capable of receiving and treating the permittee's sewage. Such facilities must be in accordance with the applicable municipal official plan adopted pursuant to Section 5 of the Pennsylvania Sewage Facilities Act, the Act of January 24, 1966, P.L. 1535 as amended. When such municipal sewerage facilities become available, the permittee shall provide for the conveyance of the sewage to these sewerage facilities, abandon the use of these approved facilities and notify DEP accordingly. This permit shall then, upon notice from DEP, terminate and become null and void and shall be relinquished to DEP.
- 8. This permit does not relieve the permittee of its obligations to comply with all federal, Interstate, state or local laws, ordinances and regulations applicable to the sewerage facilities.
- 9. This permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to or over any lands which belong to the Commonwealth.
- 10. The authority granted by this permit is subject to all effluent requirements, monitoring requirements and other conditions as set forth in NPDES Permit No. PA\_\_\_\_\_ and all subsequent amendments and renewals. No discharge is authorized from these facilities unless approved by an NPDES Permit.



- 11. An Erosion and Sedimentation (E&S) Plan must be developed prior to construction of the permitted facility, pursuant to Title 25 Pa. Code Chapter 102, and implemented during and after the earth disturbance activity.

If the activity involves 5 or more acres of earth disturbance, or from 1 to 5 acres of earth disturbance with a point source discharge to surface waters of the Commonwealth, an NPDES permit for the Discharge of Stormwater Associated with Construction Activity is required.

In addition to the state NPDES permitting requirements, some municipalities, through local ordinances, require the E&S Control Plan to be reviewed and approved by the local County Conservation District office prior to

construction. For specific information regarding E&S control planning approval and NPDES permitting requirements, please contact your local County Conservation District office.

- 12. The facilities shall be constructed under the supervision of a Pennsylvania registered Professional Engineer in accordance with the approved reports, plans and specifications.
  - 13. A Pennsylvania registered Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using "Post Construction Certification" (3800-PM-WSWM0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. If requested, "as-built" drawings, photographs (if available) and a description of any DEP-approved deviations from the application and design plans must be submitted to DEP within 30 days of certification.
  - 14. Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities.
  - 15. The local Waterways Conservation Officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if the use of explosives in any waterways is required and the permittee shall notify the local Waterways Conservation Officer when explosives are to be used.
- [REDACTED SECTION]
- 16. The permittee shall maintain records of "as-built" plans showing all the treatment facilities as actually constructed together with facility operation and maintenance (O&M) manuals and any other relevant information that may be required. Upon request, the "as-built" plans and O&M manuals shall be filed with DEP.
  - 17. The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured.
  - 18. Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sanitary sewers.
  - 19. The approved sewers shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary.
  - 20. The sewerage facilities shall be properly operated and maintained to perform as designed.
  - 21. The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the sewerage facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible.
  - 22. An operator certified in accordance with the Water and Wastewater Systems Operator Certification Act of February 21, 2002, 63 P.S. §§1001, *et seq.* shall operate the sewage treatment plant.
  - 23. The permittee shall properly control any industrial waste discharged into its sewerage system by regulating the rate and quality of such discharge, requiring necessary pretreatment and excluding industrial waste, if necessary, to protect the integrity or operation of the permittee's sewerage system.
  - 24. There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water pipe shall pass through or come in contact with any part of a sewer manhole.
  - 25. All connections to the approved sanitary sewers must be in accordance with the corrective action plan as contained in the approved Title 25 Pa. Code Chapter 94 Municipal Wasteload Management Annual Report.
  - 26. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 271, 273, 275, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments.



## TYPES OF DEP LICENSES / PERMITS

(PLEASE NOTE: The numbers associated with these permits are strictly intended for the purposes of evaluating this survey. They are not to be considered the official number for each permit and are not to be used when requesting information on a permit that has been submitted or for receiving application materials for other permits.)

### AIR PLAN APPROVALS

- 100 Prevention of Significant Deterioration (PSD)
- 110 Major Source in Non-Attainment
- 120 New Source Performance Standard (NSPS)
- 130 Waste Incineration/Burning
- 140 General (Other)

### BLASTING

- 150 Blaster's License
- 160 Explosives Storage Permit
- 170 Explosives Purchase/Sale Permit

### MISCELLANEOUS

- 180 Earth Disturbance Permit

### HAZARDOUS WASTE

- 190 Storage Facility Permit
- 200 Waste Piles Permit
- 210 Landfill Permit
- 220 Incinerator Permit
- 230 Chem/Phys/Bio Treatment Permit
- 240 Surface Impoundment Permit
- 250 Land Treatment Permit
- 260 Thermal Treatment Permit
- 270 Transporter License
- 280 Commercial Treatment/Disposal

### INDUSTRIAL WASTE/WATER

- 290 NPDES (Part 1) Permit
- 300 Water Quality Management (Part 2)

### INFECTIOUS & CHEMOTHERAPEUTIC WASTE

- 310 Transporter License

### MINING

- 320 Letter of Authorization
- 330 Equipment Approval
- 340 Noncoal Mining Activity Permit
- 350 Refuse Bank Reprocessing Permit
- 360 Surface Coal Mining Permit
- 370 Underground Coal Mining Permit
- 380 Coal Prep Plant Permit
- 390 Coal Refuse Disposal Permit
- 400 Coal Surface Mining License
- 410 Noncoal Surface Mining License
- 420 Coal Extraction
- 430 Incidental Extraction

### RADIATION

- 440 Radioactive Material License

### SEWAGE

- 450 Planning Approval/Base Planning
- 460 Planning Approval/New Land Development
- 470 NPDES Part 1 for Sewage
- 480 Water Quality Management Part 2 Permit

### MUNICIPAL/RESIDUAL WASTE

- 490 Residual Waste Processing and/or Disposal Permit
- 500 Municipal Waste Landfill Permit
- 510 Construction/Demolition Waste Landfill Permit
- 520 Incineration/Resource Recovery Facility Permit
- 530 Agricultural Utilization of Sewage Sludge Facility Permit
- 540 Demonstration Facility Permit
- 550 Land Reclamation of Sewage Sludge Facility Permit
- 560 Land Disposal of Sewage Sludge Facility Permit
- 570 Transfer Facility Permit
- 580 Municipal Waste Processing Facility Permit
- 590 Compost Facility Permit

### OIL AND GAS WELLS

- 600 Oil and Gas Well Permit
- 610 Oil and Gas Well Registration
- 620 Oil and Gas Well Bond
- 630 Oil and Gas Well Coal Pillar Permit
- 640 Orphan Well Classification
- 650 Oil and Gas NPDES Permit Part 1/GP
- 660 Clean Streams Law Part 2 Permit

### PUBLIC WATER SUPPLY

- 670 Public Water System Permit - Community Water System
- 680 Public Water System Permit - Bottled or Vended System
- 690 Public Water System Permit - Bulk Water Haulers
- 700 Non-Community Water System Approval
- 710 Non-Community Water System Permit
- 720 Water Allocation Permit

### WATERWAY ACTIVITIES

- 730 Water Obstruction/Encroachment Permit



**WATER QUALITY MANAGEMENT  
 POST CONSTRUCTION CERTIFICATION**

APPLICANT IDENTIFIER	
Permittee	Willistown Township
Address	688 Sugartown Road, Malvern, PA 19355
Municipality	Willistown Township
County	Chester
CERTIFICATION	
The following information must be completed and returned to the Permits Section of the DEP Regional Office issuing the WQM permit within 30 days of completion of the project and received by DEP prior to operation, along with as-built drawings, photographs (if available), and a discussion of any DEP-approved deviations from the design plans during construction. <i>PER 4/29/13 LETTER - PRE CONSTRUCTION</i>	
I, <u>DENNIS G. TRACEY</u> , being a Registered Professional Engineer in accordance with the Pennsylvania Professional Engineer's Registration Law do hereby certify that the sewerage facilities approved under Water Quality Management Permit No. <b>1512405 (Pump Station No. 3 Upgrades)</b> have been inspected and constructed in accordance with the plans and specifications approved by DEP.	
Construction Completion Date (MM/DD/YYYY): <u>10/22/2014</u>	
<b>Supervising Professional Engineer</b>	
Name <u>Dennis G. Tracey</u> (Please Print or Type)	
Signature <i>Dennis G. Tracey</i>	
Date <u>1/23/15</u>	
Title <u>PROJ. MANAGER</u>	
Firm or Agency <u>Buchart Horn, Inc</u>	
Telephone <u>856-797-4339</u>	
<b>Permittee's Authorized Representative:</b>	<b>Principal Operator Information (For Sewage Facilities):</b>
Name <u>DAVID R. BURMAN</u> (Please Print or Type)	Name <u>KENNETH E. HEYDT</u> (Please Print or Type)
Signature <i>David R. Burman</i>	Certification Number (if applicable) <u>59126</u>
Title <u>TOWNSHIP MANAGER</u>	Class <u>A, E SUBCLASS 1, 2, 3, 4</u>
Telephone <u>610-647-5300</u>	Type



### WATER QUALITY MANAGEMENT POST CONSTRUCTION CERTIFICATION

#### APPLICANT IDENTIFIER

Permittee	Willistown Township
Address	688 Sugartown Road, Malvern, PA 19355
Municipality	Willistown Township
County	Chester

#### CERTIFICATION

The following information must be completed and returned to the Permits Section of the DEP Regional Office issuing the WQM permit within 30 days of completion of the project and received by DEP prior to operation, along with as-built drawings, photographs (if available), and a discussion of any DEP-approved deviations from the design plans during construction. *PER 4/29/13 LETTER - PRE CONSTRUCTION*

I, DENNIS G. TRACEY, being a Registered Professional Engineer in accordance with the Pennsylvania Professional Engineer's Registration Law do hereby certify that the sewerage facilities approved under Water Quality Management Permit No. **1512405 (Pump Station No. 3 Upgrades)** have been inspected and constructed in accordance with the plans and specifications approved by DEP.

Construction Completion Date (MM/DD/YYYY): 10/22/2014

	<b>Supervising Professional Engineer</b>
	Name <u>Dennis G. Tracey</u> (Please Print or Type)
	Signature <i>Dennis G. Tracey</i>
	Date <u>1/23/15</u>
	Title <u>PRJ. MANAGER</u>
	Firm or Agency <u>BUCHART FLORA, INC</u>
Telephone <u>856-797-4339</u>	
<b>Permittee's Authorized Representative:</b>	<b>Principal Operator Information (For Sewage Facilities):</b>
Name <u>DAVID R. BURMAN</u> (Please Print or Type)	Name <u>KENNETH E. HEYDT</u> (Please Print or Type)
Signature <i>David R. Burman</i>	Certification Number (if applicable) <u>59126</u>
Title <u>TOWNSHIP MANAGER</u>	Class <u>A, E SUBCLASS 1, 2, 3, 4</u>
Telephone <u>610-647-5300</u>	Type



# pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION  
SOUTHEAST REGIONAL OFFICE

RECEIVED

JUN 07 2012

WILLISTOWN TOWNSHIP

June 4, 2012

Mr. David R. Burman, Manager  
Willistown Township  
688 Sugartown Road  
Malvern, PA 19355

Re: Pump Station No. 3 Upgrades  
Permit No. 1512405  
File Type: Permit  
Willistown Township  
Chester County

Dear Mr. Burman:

Your permit is enclosed.

You must comply with all permit conditions attached to this permit. Construction must be done in accordance with the permit application and all supporting documentation. Please review the permit conditions and the supporting documentation submitted with your application before starting construction.

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

**IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.**

RECEIVED

JAN 28 2015

WILLISTOWN TOWNSHIP

Southeast Regional Office | 2 East Main Street | Norristown, PA 19401-4915

484.250.5970 | Fax 484.250.5971

Printed on Recycled Paper 

www.depweb.state.pa.us

Mr. David R. Burman

- 2 -

IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717.787.3483) FOR MORE INFORMATION.

If you have any questions, please call Mr. James Roth at 484.250.5169.

Sincerely,



Jenifer Fields, P.E.  
Regional Manager  
Clean Water

Enclosures

cc: Chester County Health Department  
Mr. Boggs, P.E. - ENTECH Engineering, Inc.  
Operations Section  
Re (joh12clw)144-4



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

**WATER QUALITY MANAGEMENT  
PERMIT**

<p>A. PERMITTEE (Name and Address): <b>Willistown Township</b> 688 Sugartown Road Malvern, PA 19355</p>	<p>CLIENT ID#: <u>86424</u></p>	<p>B. PRIMARY FACILITY (Name): <b>Willistown Township Sewer System</b></p> <p>SUB FACILITY (Name): <b>Pump Station No. 3</b></p>
<p>C. LOCATION (Municipality, County): <b>Willistown Township</b> <b>Chester County</b></p>	<p>SITE ID#: <u>255715</u></p>	
<p>D. This permit approves sewage pumping station improvements consisting of: installing new pumps and pump controls to increase the pump station's hydraulic capacity from 0.8 mgd to 1.2 mgd.</p>		
<p>Pump Station: <u>Pump Station No. 3</u> Design Capacity: <u>2,000</u> GPM Average Annual Flow: <u>1.2</u> MGD</p>	<p>Pump Station: _____ Design Capacity: _____ GPM Average Annual Flow: _____ MGD</p>	
<p>E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING:</p> <p>1. <b>New Permits:</b> All construction, operations, and procedures shall be in accordance with the Water Quality Management Permit application dated <u>03/28/12</u>, its supporting documentation, and addendums dated _____, which are hereby made a part of this permit.</p> <p><b>Amendments:</b> All construction, operations, and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated _____ and its supporting documentation, and addendums dated _____, which are hereby made a part of this amendment.</p> <p>Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No. _____ dated _____ shall remain in effect.</p> <p><b>Transfers:</b> Water Quality Management Permit No. _____ dated _____ and conditions, supporting documentation and addendums are also made part of this transfer.</p> <p>2. <b>Permit Conditions Relating to Sewerage</b> are attached and made part of this permit.</p> <p>3. Special Conditions numbered _____ are attached and made part of this permit.</p>		
<p>F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:</p> <p>1. If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply.</p> <p>2. Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit.</p> <p>3. This permit is issued pursuant to the Clean Streams Law Act of June 22, 1937, P.L. 1987, as amended 35 P.S. §691.1 et seq. Issuance of this permit shall not relieve the permittee of any responsibility under any other law.</p>		
<p>PERMIT ISSUED: <u>June 4, 2012</u></p>		<p>BY:  TITLE: <u>Clean Water Program Manager</u></p>



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

**PERMIT CONDITIONS RELATING TO SEWERAGE**  
For use in Water Quality Management Permits

(Place a  $\checkmark$  in the box that applies)

**General**

- 1. The Department of Environmental Protection's (DEP) considers the registered Professional Engineer whose seal is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility design.
- 2. The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and onlot sewage disposal systems on the premises of occupied structures accessible to public sewers. All such structures must be connected to the public sewers.
- 3. The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to ensure proper mixing and waste assimilation, an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of a navigable stream provided that the permittee has secured an easement, right-of-way, license or lease from DEP in accordance with Section 15 of the Dam Safety and Encroachments Act, the Act of November 26, 1978, P.L. 1375, as amended.
- 4. The approval is specifically made contingent on the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property with full rights of ingress, egress and regress.
- 5. When construction of the approved sewerage facilities is completed and before they are placed in operation, the permittee shall notify DEP in writing so that a DEP representative may inspect the facilities.
- 6. If, at any time, the sewerage facilities covered by this permit create a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
- 7. If, after the issuance of this permit, DEP approves a municipal sewerage facilities official plan or an amendment to an official plan under Act 537 (Pennsylvania Sewage Facilities Act, the Act of January 24, 1966, P.L. 1535 as amended) in which sewage from the herein approved facilities will be treated and disposed of at other planned facilities, the permittee shall, upon notification from the municipality or DEP, provide for the conveyance of its sewage to the planned facilities, abandon use and decommission the herein approved facilities including the proper disposal of solids, and notify DEP accordingly. The permittee shall adhere to schedules in the approved official plan, amendments to the plan, or other agreements between the permittee and municipality. This permit shall then, upon notice from DEP, terminate and become null and void and shall be relinquished to DEP.
- 8. This permit does not relieve the permittee of its obligations to comply with all federal, interstate, state or local laws, ordinances and regulations applicable to the sewerage facilities.
- 9. This permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to or over any lands which belong to the Commonwealth.
- 10. The authority granted by this permit is subject to all effluent requirements, monitoring requirements and other conditions as set forth in NPDES Permit No. PA\_\_\_ and all subsequent amendments and renewals. No discharge is authorized from these facilities unless approved by an NPDES Permit.

**Construction**

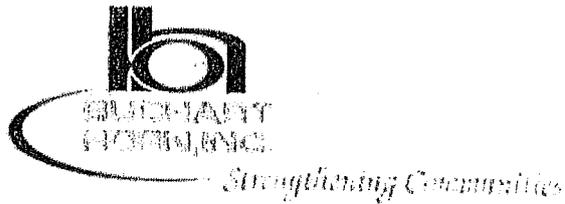
- 11. An Erosion and Sedimentation (E&S) Plan must be developed prior to construction of the permitted facility, pursuant to Title 25 Pa. Code Chapter 102, and implemented during and after the earth disturbance activity.  
  
If the activity involves 5 or more acres of earth disturbance, or from 1 to 5 acres of earth disturbance with a point source discharge to surface waters of the Commonwealth, an NPDES permit for the Discharge of Stormwater Associated with Construction Activity is required.

In addition to the state NPDES permitting requirements, some municipalities, through local ordinances, require the E&S Control Plan to be reviewed and approved by the local County Conservation District office prior to construction. For specific information regarding E&S control planning approval and NPDES permitting requirements, please contact your local County Conservation District office.

- 12. The facilities shall be constructed under the supervision of a Pennsylvania registered Professional Engineer in accordance with the approved reports, plans and specifications.
- 13. A Pennsylvania registered Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using "Post Construction Certification" (3800-PM-WSFR0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. If requested, "as-built" drawings, photographs (if available) and a description of any DEP-approved deviations from the application and design plans must be submitted to DEP within 30 days of certification.
- 14. Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities.
- 15. The local Waterways Conservation Officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if the use of explosives in any waterways is required and the permittee shall notify the local Waterways Conservation Officer when explosives are to be used.

#### Operation and Maintenance

- 16. The permittee shall maintain records of "as-built" plans showing all the treatment facilities as actually constructed together with facility operation and maintenance (O&M) manuals and any other relevant information that may be required. Upon request, the "as-built" plans and O&M manuals shall be filed with DEP.
- 17. The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured.
- 18. Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sanitary sewers.
- 19. The approved sewers shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary.
- 20. The sewerage facilities shall be properly operated and maintained to perform as designed.
- 21. The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the sewerage facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible.
- 22. An operator certified in accordance with the Water and Wastewater Systems Operator Certification Act of February 21, 2002, 63 P.S. §§1001, *et seq.* shall operate the sewage treatment plant.
- 23. The permittee shall properly control any industrial waste discharged into its sewerage system by regulating the rate and quality of such discharge, requiring necessary pretreatment and excluding industrial waste, if necessary, to protect the integrity or operation of the permittee's sewerage system.
- 24. There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water pipe shall pass through or come in contact with any part of a sewer manhole.
- 25. All connections to the approved sanitary sewers must be in accordance with the corrective action plan as contained in the approved Title 25 Pa. Code Chapter 94 Municipal Wasteload Management Annual Report.
- 26. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 271, 273, 276, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments.



April 29, 2013

Mr. Keith Dudley  
PA DEP  
Southeastern Regional Office  
Water Quality Management  
2 East Main Street  
Norristown, PA 19401-4915

Re: Permit No. 1512405  
Pumping Station #3 Upgrade  
Willistown Township, PA

Dear Keith:

Enclosed is a copy of the updated plans and capacity-related technical specifications for the proposed upgrade for the Willistown Township Pumping Station #3. As previously discussed the proposed capacity of the station remains the same as previously approved at 1.2 mgd (average) and 2.88 mgd (instantaneous peak), but the changes are to better meet the low flow conditions at the station and for constructability reasons. The changes are as follows:

1. There will be three (3) smaller pumps installed instead of the previously approved two (2) pump installation with larger pumps. Under this 3 small pump arrangement, a maximum of two (2) pumps can operate and the third pump will act as a standby or back up pump. With two (2) new pumps operating the station will have a combined capacity of 2,000 gpm, at 263 feet TDH (same capacity as previously approved). However, a single smaller pump can also operate at a lower flow rate to allow more uniform pumping at the low flow conditions (e.g.- single pump at 50% speed can pump as low as 500 gpm) . Also the three (3) pumps are physically smaller than the two (2) large pumps previously proposed and will better fit into the existing station and require fewer structural changes; and will be easier to remove for maintenance. To accommodate the third pump the following are necessary.
  - a. A third VFD will be installed.
  - b. A new triplex pump controller to be operated in Duplex Mode.
  - c. Suction and discharge piping modifications to accommodate the third pump.

2. Other associated changes are being added to accommodate better operation and maintenance of the station. These include the following:
  - a. Modify the floor openings for pump placement and future removal.
  - b. Replacement of existing ventilation blowers.
  - c. Modify/Replace access doors to better accommodate equipment access and removal.

None of these changes affect the previously approved capacity of the station or should materially effect permitted approval. Therefore, as discussed a formal revised permit approval should not be required but we wanted to advise the PADEP of the proposed design changes.

If you have any questions or need any additional information please feel free to contact me or Dennis Tracey of this office.

Very truly yours,  
BUCHART- HORN, INC.

Edward J. Di Mond, P.E.  
Director of Environmental

c: file 76925-00





PUMPS & TRACES  
 PENNSYLVANIA  
 CHESTER COUNTY  
 WILLISTOWN TOWNSHIP  
 PUMPING STATION #3  
 CONTRACT 2013-01

NO.	DATE	DESCRIPTION
1	10/20/13	ISSUED FOR PERMITS
2	11/15/13	ISSUED FOR PERMITS
3	12/10/13	ISSUED FOR PERMITS
4	01/15/14	ISSUED FOR PERMITS
5	02/10/14	ISSUED FOR PERMITS
6	03/10/14	ISSUED FOR PERMITS
7	04/10/14	ISSUED FOR PERMITS
8	05/10/14	ISSUED FOR PERMITS
9	06/10/14	ISSUED FOR PERMITS
10	07/10/14	ISSUED FOR PERMITS
11	08/10/14	ISSUED FOR PERMITS
12	09/10/14	ISSUED FOR PERMITS
13	10/10/14	ISSUED FOR PERMITS
14	11/10/14	ISSUED FOR PERMITS
15	12/10/14	ISSUED FOR PERMITS
16	01/10/15	ISSUED FOR PERMITS
17	02/10/15	ISSUED FOR PERMITS
18	03/10/15	ISSUED FOR PERMITS
19	04/10/15	ISSUED FOR PERMITS
20	05/10/15	ISSUED FOR PERMITS
21	06/10/15	ISSUED FOR PERMITS
22	07/10/15	ISSUED FOR PERMITS
23	08/10/15	ISSUED FOR PERMITS
24	09/10/15	ISSUED FOR PERMITS
25	10/10/15	ISSUED FOR PERMITS
26	11/10/15	ISSUED FOR PERMITS
27	12/10/15	ISSUED FOR PERMITS
28	01/10/16	ISSUED FOR PERMITS
29	02/10/16	ISSUED FOR PERMITS
30	03/10/16	ISSUED FOR PERMITS
31	04/10/16	ISSUED FOR PERMITS
32	05/10/16	ISSUED FOR PERMITS
33	06/10/16	ISSUED FOR PERMITS
34	07/10/16	ISSUED FOR PERMITS
35	08/10/16	ISSUED FOR PERMITS
36	09/10/16	ISSUED FOR PERMITS
37	10/10/16	ISSUED FOR PERMITS
38	11/10/16	ISSUED FOR PERMITS
39	12/10/16	ISSUED FOR PERMITS
40	01/10/17	ISSUED FOR PERMITS
41	02/10/17	ISSUED FOR PERMITS
42	03/10/17	ISSUED FOR PERMITS
43	04/10/17	ISSUED FOR PERMITS
44	05/10/17	ISSUED FOR PERMITS
45	06/10/17	ISSUED FOR PERMITS
46	07/10/17	ISSUED FOR PERMITS
47	08/10/17	ISSUED FOR PERMITS
48	09/10/17	ISSUED FOR PERMITS
49	10/10/17	ISSUED FOR PERMITS
50	11/10/17	ISSUED FOR PERMITS
51	12/10/17	ISSUED FOR PERMITS
52	01/10/18	ISSUED FOR PERMITS
53	02/10/18	ISSUED FOR PERMITS
54	03/10/18	ISSUED FOR PERMITS
55	04/10/18	ISSUED FOR PERMITS
56	05/10/18	ISSUED FOR PERMITS
57	06/10/18	ISSUED FOR PERMITS
58	07/10/18	ISSUED FOR PERMITS
59	08/10/18	ISSUED FOR PERMITS
60	09/10/18	ISSUED FOR PERMITS
61	10/10/18	ISSUED FOR PERMITS
62	11/10/18	ISSUED FOR PERMITS
63	12/10/18	ISSUED FOR PERMITS
64	01/10/19	ISSUED FOR PERMITS
65	02/10/19	ISSUED FOR PERMITS
66	03/10/19	ISSUED FOR PERMITS
67	04/10/19	ISSUED FOR PERMITS
68	05/10/19	ISSUED FOR PERMITS
69	06/10/19	ISSUED FOR PERMITS
70	07/10/19	ISSUED FOR PERMITS
71	08/10/19	ISSUED FOR PERMITS
72	09/10/19	ISSUED FOR PERMITS
73	10/10/19	ISSUED FOR PERMITS
74	11/10/19	ISSUED FOR PERMITS
75	12/10/19	ISSUED FOR PERMITS
76	01/10/20	ISSUED FOR PERMITS
77	02/10/20	ISSUED FOR PERMITS
78	03/10/20	ISSUED FOR PERMITS
79	04/10/20	ISSUED FOR PERMITS
80	05/10/20	ISSUED FOR PERMITS
81	06/10/20	ISSUED FOR PERMITS
82	07/10/20	ISSUED FOR PERMITS
83	08/10/20	ISSUED FOR PERMITS
84	09/10/20	ISSUED FOR PERMITS
85	10/10/20	ISSUED FOR PERMITS
86	11/10/20	ISSUED FOR PERMITS
87	12/10/20	ISSUED FOR PERMITS
88	01/10/21	ISSUED FOR PERMITS
89	02/10/21	ISSUED FOR PERMITS
90	03/10/21	ISSUED FOR PERMITS
91	04/10/21	ISSUED FOR PERMITS
92	05/10/21	ISSUED FOR PERMITS
93	06/10/21	ISSUED FOR PERMITS
94	07/10/21	ISSUED FOR PERMITS
95	08/10/21	ISSUED FOR PERMITS
96	09/10/21	ISSUED FOR PERMITS
97	10/10/21	ISSUED FOR PERMITS
98	11/10/21	ISSUED FOR PERMITS
99	12/10/21	ISSUED FOR PERMITS
100	01/10/22	ISSUED FOR PERMITS

GENERAL NOTES, LEGEND, & SYMBOLS  
 6-01  
 DWG STATUS (RECORD)

**NOTES:**

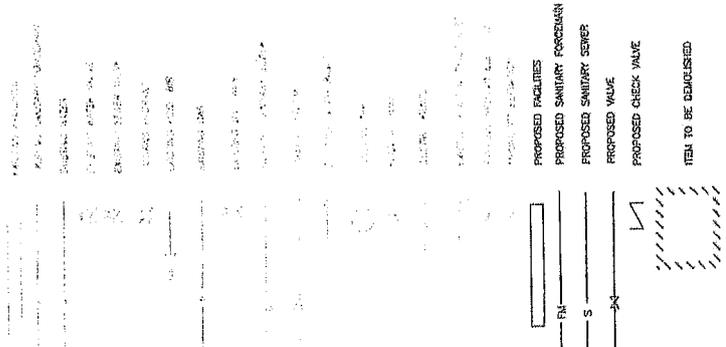
- 1) AVAILABLE INFORMATION AS TO THE LOCATION OF EXISTING SUBSTRUCTURES AND UTILITIES HAS BEEN OBTAINED FROM RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND EXISTING LOCATIONS OF UNDERGROUND LINES.
- 2) THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES A MINIMUM OF 72 HOURS PRIOR TO EXCAVATION, AND SHALL COMPLY WITH ALL CURRENT MARKOUT REQUIREMENTS OF THE PENNSYLVANIA ONE CALL SYSTEM.
- 3) THE CONTRACTOR SHALL ABIDE BY ALL REQUIREMENTS OF THE "HIGH VOLTAGE PROXIMITY ACT".
- 4) THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND DISPOSAL OF ALL EXCESS EXCAVATED MATERIAL TO AN APPROVED OFF-SITE LOCATION AT NO ADDITIONAL COST TO THE OWNER.
- 5) ALL CONSTRUCTION ACTIVITIES ARE TO BE CONFINED TO THE PUBLIC RIGHT-OF-WAY OR ALLEYS, EASEMENTS AND/OR PROPERTIES.
- 6) IN ORDER TO CONSIDERATION TO OR RELOCATION OF ANY EXISTING FACILITIES, THE CONTRACTOR SHALL NOTIFY THE OWNER. THE CONTRACTOR SHALL COORDINATE THE NECESSARY SHUTDOWN OF ANY EXISTING FACILITIES WITH THE OWNER. ALL CONNECTIONS TO EXISTING FACILITIES SHALL BE DONE AT THE CONVENIENCE OF THE OWNER.
- 7) CONTRACTOR SHALL TAKE STEPS NECESSARY TO PROTECT EXISTING CURBS AND PAVING AND MINIMIZE THE LENGTH OF THE CURBING AND PAVING THAT MUST BE REPAIRED.
- 8) ROADWAY CURBS AND SIDEWALK RESTORATION WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE GOVERNING AGENCY.
- 9) THE CONTRACTOR SHALL INCLUDE AND BE RESPONSIBLE FOR ARRANGING ACCESS TO THE WORK LOCATIONS AND FOR ADDITIONAL LAND REQUIRED FOR STAGING AND STORAGE DURING CONSTRUCTION.

- 10) THE CONTRACTOR SHALL ABIDE BY THE CONDITIONS ON AND CLOSE TO THE PUMPING STATION SITE, PROFESSIONALLY DESIGNED, BEFORE AND AFTER CONSTRUCTION. IN THE EVENT THAT A DISPUTE ARISES IN REGARDS TO DAMAGE DONE TO PROPERTY DURING CONSTRUCTION.
- 11) THE CONTRACTOR SHALL PROTECT ANY PROPERTY AND EXISTING STRUCTURES IN THE WORK AREA DURING CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO STRUCTURES WHICH SHALL REMAIN IN PLACE AT NO ADDITIONAL COST TO THE OWNER.
- 12) THE CONTRACTOR SHALL RESTORE ALL STRUCTURES, FENCES, EASEMENTS, CURBS AND DRIVEWAYS TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- 13) THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING ADEQUATE MEASURES TO PREVENT SOIL EROSION AND SEDIMENTATION IN ACCORDANCE WITH THE LOCAL SOIL CONSERVATION DISTRICT REQUIREMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVED TO THE CONSTRUCTION CONDITION UPON COMPLETION OF WORK.
- 14) CONTRACTOR SHALL VISIT AND EXAMINE THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH THE WORK PROPOSED UNDER THIS CONTRACT.
- 15) ANY RESTRICTION SHALL BE PERFORMED IN ACCORDANCE WITH TOWNSHIP REQUIREMENTS AS APPLICABLE.
- 16) UNLESS OTHERWISE SPECIFICALLY PERMITTED, NO WORK SHALL BE DONE BETWEEN THE HOURS OF 7:00 PM TO 6:00 AM, PREVAILING TIME. THE CONTRACTOR SHALL ALSO COMPLY WITH ALL LOCAL AND STATE LAWS GOVERNING HOURS DURING WHICH CONSTRUCTION EQUIPMENT MAY BE OPERATED.
- 17) THE CONTRACTOR IS CAUTIONED THAT ALL WATER, SANITARY SEWER, AND UTILITY SERVICES HAVE NOT BEEN LOCATED. WHEN CONTRACTOR ENCOUNTERS AN OBSTRUCTION HE SHALL NOTIFY ENGINEER AND AFFECTED UTILITY OWNER.

**ABBREVIATIONS:**

APX	APPROXIMATELY
CL	CAST IRON
GEN	GENERAL
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
CPL	COUPLING
DISCH	DISCHARGE
DIP	DUCTILE IRON PIPE
ELEV	ELEVATION
EX	EXISTING
FL	FLANGED
FM	FORCE MAIN
HD	HOSE
HW	HIGH HIGH WATER LEVEL
HWL	HIGH WATER LEVEL
INS	INSIDE DIMENSIONS
INT	LOW WATER LEVEL
MECH	MECHANICAL JOINT
NO	NOT TO SCALE
PROP	PROPOSED
PVC	POLY VINYL CHLORIDE
RED	REDUCED
R/W	RIGHT OF WAY
SS	STAINLESS STEEL
STL	STEEL
TOP	TOP OF PIPE
TYP	TYPICAL
W/W	WALKWAY

**LEGEND:**



**REFERENCE NOTES:**

- 1) REF MAP, ISSUES VALLEY FORCE, PA AND WATSON, PA QUARS.
- 2) THE EXISTING INFORMATION SHOWN FOR THIS DRAWING WAS OBTAINED FROM RECORD DRAWINGS AND FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL EXISTING UTILITIES AND EXISTING LOCATIONS OF UNDERGROUND LINES.
- 3) THIS DRAWING WAS PREPARED BY YERGES ASSOCIATES, INC., TITLED PUMPING STATION #3 UPGRADES, DATED NOVEMBER 2008.

**DATUM NOTE:**

ELEVATIONS SHOWN ARE BASED ON VERTICAL, NAV 1929





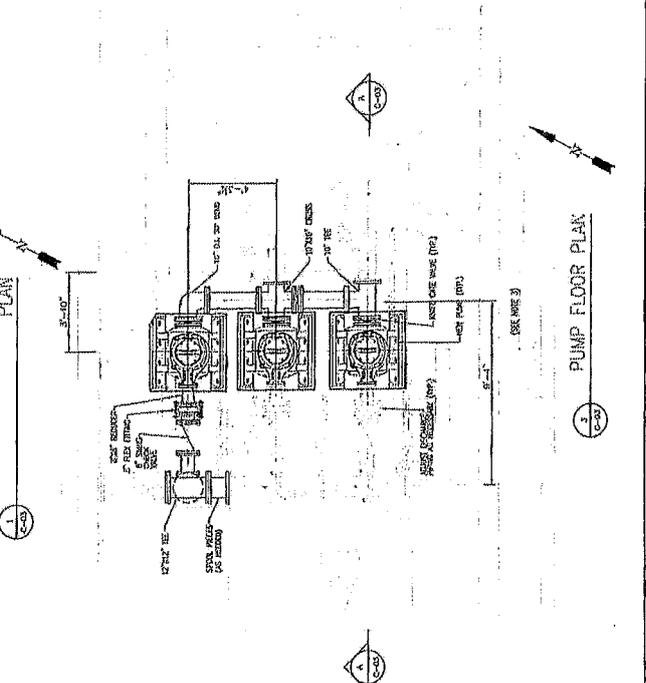
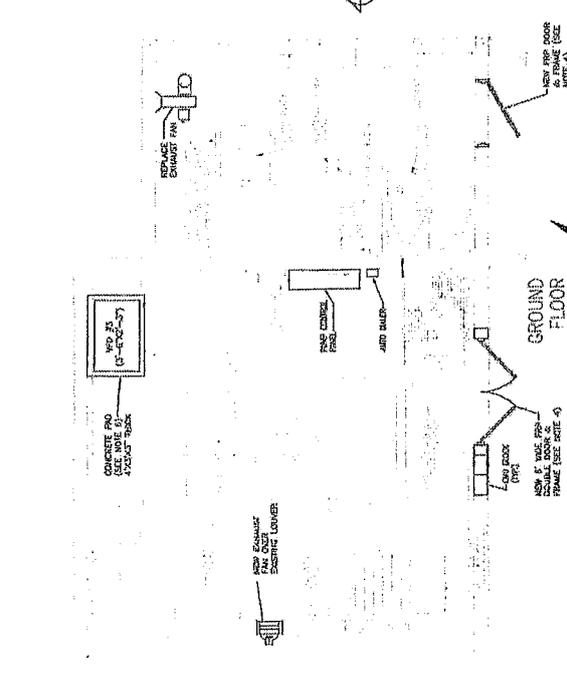
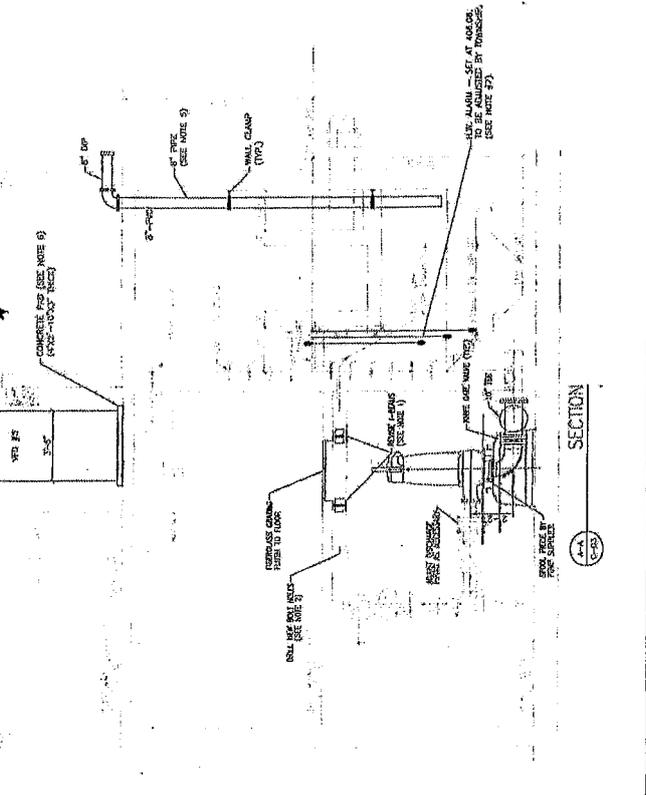
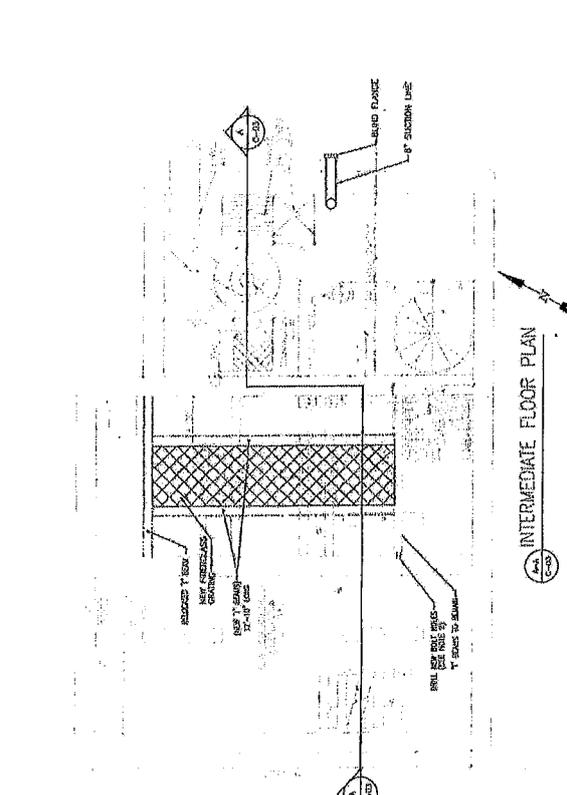
PHILIP HUBBARD  
ENGINEERING  
INC.

WILLISTOWN TOWNSHIP  
PUMPING STATION #3  
CONTRACT 2013-01  
PENNSYLVANIA  
CHESTER COUNTY

NO.	DATE	DESCRIPTION
1	10/15/13	ISSUED FOR PERMITS
2	11/15/13	ISSUED FOR BIDDING
3	12/15/13	ISSUED FOR CONSTRUCTION
4	01/15/14	ISSUED FOR AS-BUILT
5	02/15/14	ISSUED FOR RECORD
6	03/15/14	ISSUED FOR FINAL
7	04/15/14	ISSUED FOR ARCHIVE
8	05/15/14	ISSUED FOR CLOSURE
9	06/15/14	ISSUED FOR DECOMMISSION
10	07/15/14	ISSUED FOR REMOVAL

PROJECT NO. 2013-01  
SHEET NO. 01 OF 11  
DATE: 05/11/14

- NOTES:
1. REMOVE ALL STEEL 1" BEAMS FROM EXISTING CONCRETE FOUNDATION. REPLACE ONE OF THE 12" BEAMS WITH 12" WIDE X 12" DEEP X 12" LONG STEEL I-BEAM MATCHING EXISTING BEAM SIZE OF THE OPENING.
  2. EXISTING 12" WIDE X 12" DEEP X 12" LONG STEEL I-BEAM TO BE REMOVED FROM EXISTING CONCRETE FOUNDATION. REPLACE WITH 12" WIDE X 12" DEEP X 12" LONG STEEL I-BEAM MATCHING EXISTING BEAM SIZE OF THE OPENING.
  3. CONTRACTOR TO INSURE THAT ALL WORK IS DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS. CONTRACTOR TO VERIFY THAT ALL WORK IS DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
  4. CONTRACTOR TO VERIFY THAT ALL WORK IS DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS. CONTRACTOR TO VERIFY THAT ALL WORK IS DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
  5. NEW 12" WIDE X 12" DEEP X 12" LONG STEEL I-BEAM TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS. CONTRACTOR TO VERIFY THAT ALL WORK IS DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
  6. CONTRACTOR TO VERIFY THAT ALL WORK IS DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS. CONTRACTOR TO VERIFY THAT ALL WORK IS DONE IN ACCORDANCE WITH ALL APPLICABLE CODES AND REGULATIONS.
  7. INSTALL THREE FLOOR SWITCHES (SEE NOTE 8).







CHARLES J. HUBER  
PA 06028728

PENNSYLVANIA  
CHESTER COUNTY  
WILLISTOWN TOWNSHIP  
PUMPING STATION #3  
CONTRACT 2013-01

NO.	DATE	DESCRIPTION
1	08/22/13	ISSUED FOR PERMIT
2	09/10/13	ISSUED FOR BIDDING
3	10/01/13	ISSUED FOR CONSTRUCTION
4	11/01/13	ISSUED FOR AS-BUILT
5	12/01/13	ISSUED FOR RECORD
6	01/01/14	ISSUED FOR FINAL
7	02/01/14	ISSUED FOR ARCHIVE
8	03/01/14	ISSUED FOR DESTRUCTION
9	04/01/14	ISSUED FOR DEMOLITION
10	05/01/14	ISSUED FOR REMOVAL
11	06/01/14	ISSUED FOR DISPOSAL
12	07/01/14	ISSUED FOR REDEMPTION
13	08/01/14	ISSUED FOR RECONSTRUCTION
14	09/01/14	ISSUED FOR REPAIR
15	10/01/14	ISSUED FOR RESTORATION
16	11/01/14	ISSUED FOR REUSE
17	12/01/14	ISSUED FOR RECYCLING
18	01/01/15	ISSUED FOR REDEMPTION
19	02/01/15	ISSUED FOR RECONSTRUCTION
20	03/01/15	ISSUED FOR REPAIR
21	04/01/15	ISSUED FOR RESTORATION
22	05/01/15	ISSUED FOR REUSE
23	06/01/15	ISSUED FOR RECYCLING
24	07/01/15	ISSUED FOR REDEMPTION
25	08/01/15	ISSUED FOR RECONSTRUCTION
26	09/01/15	ISSUED FOR REPAIR
27	10/01/15	ISSUED FOR RESTORATION
28	11/01/15	ISSUED FOR REUSE
29	12/01/15	ISSUED FOR RECYCLING
30	01/01/16	ISSUED FOR REDEMPTION
31	02/01/16	ISSUED FOR RECONSTRUCTION
32	03/01/16	ISSUED FOR REPAIR
33	04/01/16	ISSUED FOR RESTORATION
34	05/01/16	ISSUED FOR REUSE
35	06/01/16	ISSUED FOR RECYCLING
36	07/01/16	ISSUED FOR REDEMPTION
37	08/01/16	ISSUED FOR RECONSTRUCTION
38	09/01/16	ISSUED FOR REPAIR
39	10/01/16	ISSUED FOR RESTORATION
40	11/01/16	ISSUED FOR REUSE
41	12/01/16	ISSUED FOR RECYCLING
42	01/01/17	ISSUED FOR REDEMPTION
43	02/01/17	ISSUED FOR RECONSTRUCTION
44	03/01/17	ISSUED FOR REPAIR
45	04/01/17	ISSUED FOR RESTORATION
46	05/01/17	ISSUED FOR REUSE
47	06/01/17	ISSUED FOR RECYCLING
48	07/01/17	ISSUED FOR REDEMPTION
49	08/01/17	ISSUED FOR RECONSTRUCTION
50	09/01/17	ISSUED FOR REPAIR
51	10/01/17	ISSUED FOR RESTORATION
52	11/01/17	ISSUED FOR REUSE
53	12/01/17	ISSUED FOR RECYCLING
54	01/01/18	ISSUED FOR REDEMPTION
55	02/01/18	ISSUED FOR RECONSTRUCTION
56	03/01/18	ISSUED FOR REPAIR
57	04/01/18	ISSUED FOR RESTORATION
58	05/01/18	ISSUED FOR REUSE
59	06/01/18	ISSUED FOR RECYCLING
60	07/01/18	ISSUED FOR REDEMPTION
61	08/01/18	ISSUED FOR RECONSTRUCTION
62	09/01/18	ISSUED FOR REPAIR
63	10/01/18	ISSUED FOR RESTORATION
64	11/01/18	ISSUED FOR REUSE
65	12/01/18	ISSUED FOR RECYCLING
66	01/01/19	ISSUED FOR REDEMPTION
67	02/01/19	ISSUED FOR RECONSTRUCTION
68	03/01/19	ISSUED FOR REPAIR
69	04/01/19	ISSUED FOR RESTORATION
70	05/01/19	ISSUED FOR REUSE
71	06/01/19	ISSUED FOR RECYCLING
72	07/01/19	ISSUED FOR REDEMPTION
73	08/01/19	ISSUED FOR RECONSTRUCTION
74	09/01/19	ISSUED FOR REPAIR
75	10/01/19	ISSUED FOR RESTORATION
76	11/01/19	ISSUED FOR REUSE
77	12/01/19	ISSUED FOR RECYCLING
78	01/01/20	ISSUED FOR REDEMPTION
79	02/01/20	ISSUED FOR RECONSTRUCTION
80	03/01/20	ISSUED FOR REPAIR
81	04/01/20	ISSUED FOR RESTORATION
82	05/01/20	ISSUED FOR REUSE
83	06/01/20	ISSUED FOR RECYCLING
84	07/01/20	ISSUED FOR REDEMPTION
85	08/01/20	ISSUED FOR RECONSTRUCTION
86	09/01/20	ISSUED FOR REPAIR
87	10/01/20	ISSUED FOR RESTORATION
88	11/01/20	ISSUED FOR REUSE
89	12/01/20	ISSUED FOR RECYCLING
90	01/01/21	ISSUED FOR REDEMPTION
91	02/01/21	ISSUED FOR RECONSTRUCTION
92	03/01/21	ISSUED FOR REPAIR
93	04/01/21	ISSUED FOR RESTORATION
94	05/01/21	ISSUED FOR REUSE
95	06/01/21	ISSUED FOR RECYCLING
96	07/01/21	ISSUED FOR REDEMPTION
97	08/01/21	ISSUED FOR RECONSTRUCTION
98	09/01/21	ISSUED FOR REPAIR
99	10/01/21	ISSUED FOR RESTORATION
100	11/01/21	ISSUED FOR REUSE
101	12/01/21	ISSUED FOR RECYCLING
102	01/01/22	ISSUED FOR REDEMPTION
103	02/01/22	ISSUED FOR RECONSTRUCTION
104	03/01/22	ISSUED FOR REPAIR
105	04/01/22	ISSUED FOR RESTORATION
106	05/01/22	ISSUED FOR REUSE
107	06/01/22	ISSUED FOR RECYCLING
108	07/01/22	ISSUED FOR REDEMPTION
109	08/01/22	ISSUED FOR RECONSTRUCTION
110	09/01/22	ISSUED FOR REPAIR
111	10/01/22	ISSUED FOR RESTORATION
112	11/01/22	ISSUED FOR REUSE
113	12/01/22	ISSUED FOR RECYCLING
114	01/01/23	ISSUED FOR REDEMPTION
115	02/01/23	ISSUED FOR RECONSTRUCTION
116	03/01/23	ISSUED FOR REPAIR
117	04/01/23	ISSUED FOR RESTORATION
118	05/01/23	ISSUED FOR REUSE
119	06/01/23	ISSUED FOR RECYCLING
120	07/01/23	ISSUED FOR REDEMPTION
121	08/01/23	ISSUED FOR RECONSTRUCTION
122	09/01/23	ISSUED FOR REPAIR
123	10/01/23	ISSUED FOR RESTORATION
124	11/01/23	ISSUED FOR REUSE
125	12/01/23	ISSUED FOR RECYCLING
126	01/01/24	ISSUED FOR REDEMPTION
127	02/01/24	ISSUED FOR RECONSTRUCTION
128	03/01/24	ISSUED FOR REPAIR
129	04/01/24	ISSUED FOR RESTORATION
130	05/01/24	ISSUED FOR REUSE
131	06/01/24	ISSUED FOR RECYCLING
132	07/01/24	ISSUED FOR REDEMPTION
133	08/01/24	ISSUED FOR RECONSTRUCTION
134	09/01/24	ISSUED FOR REPAIR
135	10/01/24	ISSUED FOR RESTORATION
136	11/01/24	ISSUED FOR REUSE
137	12/01/24	ISSUED FOR RECYCLING
138	01/01/25	ISSUED FOR REDEMPTION
139	02/01/25	ISSUED FOR RECONSTRUCTION
140	03/01/25	ISSUED FOR REPAIR
141	04/01/25	ISSUED FOR RESTORATION
142	05/01/25	ISSUED FOR REUSE
143	06/01/25	ISSUED FOR RECYCLING
144	07/01/25	ISSUED FOR REDEMPTION
145	08/01/25	ISSUED FOR RECONSTRUCTION
146	09/01/25	ISSUED FOR REPAIR
147	10/01/25	ISSUED FOR RESTORATION
148	11/01/25	ISSUED FOR REUSE
149	12/01/25	ISSUED FOR RECYCLING
150	01/01/26	ISSUED FOR REDEMPTION
151	02/01/26	ISSUED FOR RECONSTRUCTION
152	03/01/26	ISSUED FOR REPAIR
153	04/01/26	ISSUED FOR RESTORATION
154	05/01/26	ISSUED FOR REUSE
155	06/01/26	ISSUED FOR RECYCLING
156	07/01/26	ISSUED FOR REDEMPTION
157	08/01/26	ISSUED FOR RECONSTRUCTION
158	09/01/26	ISSUED FOR REPAIR
159	10/01/26	ISSUED FOR RESTORATION
160	11/01/26	ISSUED FOR REUSE
161	12/01/26	ISSUED FOR RECYCLING
162	01/01/27	ISSUED FOR REDEMPTION
163	02/01/27	ISSUED FOR RECONSTRUCTION
164	03/01/27	ISSUED FOR REPAIR
165	04/01/27	ISSUED FOR RESTORATION
166	05/01/27	ISSUED FOR REUSE
167	06/01/27	ISSUED FOR RECYCLING
168	07/01/27	ISSUED FOR REDEMPTION
169	08/01/27	ISSUED FOR RECONSTRUCTION
170	09/01/27	ISSUED FOR REPAIR
171	10/01/27	ISSUED FOR RESTORATION
172	11/01/27	ISSUED FOR REUSE
173	12/01/27	ISSUED FOR RECYCLING
174	01/01/28	ISSUED FOR REDEMPTION
175	02/01/28	ISSUED FOR RECONSTRUCTION
176	03/01/28	ISSUED FOR REPAIR
177	04/01/28	ISSUED FOR RESTORATION
178	05/01/28	ISSUED FOR REUSE
179	06/01/28	ISSUED FOR RECYCLING
180	07/01/28	ISSUED FOR REDEMPTION
181	08/01/28	ISSUED FOR RECONSTRUCTION
182	09/01/28	ISSUED FOR REPAIR
183	10/01/28	ISSUED FOR RESTORATION
184	11/01/28	ISSUED FOR REUSE
185	12/01/28	ISSUED FOR RECYCLING
186	01/01/29	ISSUED FOR REDEMPTION
187	02/01/29	ISSUED FOR RECONSTRUCTION
188	03/01/29	ISSUED FOR REPAIR
189	04/01/29	ISSUED FOR RESTORATION
190	05/01/29	ISSUED FOR REUSE
191	06/01/29	ISSUED FOR RECYCLING
192	07/01/29	ISSUED FOR REDEMPTION
193	08/01/29	ISSUED FOR RECONSTRUCTION
194	09/01/29	ISSUED FOR REPAIR
195	10/01/29	ISSUED FOR RESTORATION
196	11/01/29	ISSUED FOR REUSE
197	12/01/29	ISSUED FOR RECYCLING
198	01/01/30	ISSUED FOR REDEMPTION
199	02/01/30	ISSUED FOR RECONSTRUCTION
200	03/01/30	ISSUED FOR REPAIR
201	04/01/30	ISSUED FOR RESTORATION
202	05/01/30	ISSUED FOR REUSE
203	06/01/30	ISSUED FOR RECYCLING
204	07/01/30	ISSUED FOR REDEMPTION
205	08/01/30	ISSUED FOR RECONSTRUCTION
206	09/01/30	ISSUED FOR REPAIR
207	10/01/30	ISSUED FOR RESTORATION
208	11/01/30	ISSUED FOR REUSE
209	12/01/30	ISSUED FOR RECYCLING
210	01/01/31	ISSUED FOR REDEMPTION
211	02/01/31	ISSUED FOR RECONSTRUCTION
212	03/01/31	ISSUED FOR REPAIR
213	04/01/31	ISSUED FOR RESTORATION
214	05/01/31	ISSUED FOR REUSE
215	06/01/31	ISSUED FOR RECYCLING
216	07/01/31	ISSUED FOR REDEMPTION
217	08/01/31	ISSUED FOR RECONSTRUCTION
218	09/01/31	ISSUED FOR REPAIR
219	10/01/31	ISSUED FOR RESTORATION
220	11/01/31	ISSUED FOR REUSE
221	12/01/31	ISSUED FOR RECYCLING
222	01/01/32	ISSUED FOR REDEMPTION
223	02/01/32	ISSUED FOR RECONSTRUCTION
224	03/01/32	ISSUED FOR REPAIR
225	04/01/32	ISSUED FOR RESTORATION
226	05/01/32	ISSUED FOR REUSE
227	06/01/32	ISSUED FOR RECYCLING
228	07/01/32	ISSUED FOR REDEMPTION
229	08/01/32	ISSUED FOR RECONSTRUCTION
230	09/01/32	ISSUED FOR REPAIR
231	10/01/32	ISSUED FOR RESTORATION
232	11/01/32	ISSUED FOR REUSE
233	12/01/32	ISSUED FOR RECYCLING
234	01/01/33	ISSUED FOR REDEMPTION
235	02/01/33	ISSUED FOR RECONSTRUCTION
236	03/01/33	ISSUED FOR REPAIR
237	04/01/33	ISSUED FOR RESTORATION
238	05/01/33	ISSUED FOR REUSE
239	06/01/33	ISSUED FOR RECYCLING
240	07/01/33	ISSUED FOR REDEMPTION
241	08/01/33	ISSUED FOR RECONSTRUCTION
242	09/01/33	ISSUED FOR REPAIR
243	10/01/33	ISSUED FOR RESTORATION
244	11/01/33	ISSUED FOR REUSE
245	12/01/33	ISSUED FOR RECYCLING
246	01/01/34	ISSUED FOR REDEMPTION
247	02/01/34	ISSUED FOR RECONSTRUCTION
248	03/01/34	ISSUED FOR REPAIR
249	04/01/34	ISSUED FOR RESTORATION
250	05/01/34	ISSUED FOR REUSE
251	06/01/34	ISSUED FOR RECYCLING
252	07/01/34	ISSUED FOR REDEMPTION
253	08/01/34	ISSUED FOR RECONSTRUCTION
254	09/01/34	ISSUED FOR REPAIR
255	10/01/34	ISSUED FOR RESTORATION
256	11/01/34	ISSUED FOR REUSE
257	12/01/34	ISSUED FOR RECYCLING
258	01/01/35	ISSUED FOR REDEMPTION
259	02/01/35	ISSUED FOR RECONSTRUCTION
260	03/01/35	ISSUED FOR REPAIR
261	04/01/35	ISSUED FOR RESTORATION
262	05/01/35	ISSUED FOR REUSE
263	06/01/35	ISSUED FOR RECYCLING
264	07/01/35	ISSUED FOR REDEMPTION
265	08/01/35	ISSUED FOR RECONSTRUCTION
266	09/01/35	ISSUED FOR REPAIR
267	10/01/35	ISSUED FOR RESTORATION
268	11/01/35	ISSUED FOR REUSE
269	12/01/35	ISSUED FOR RECYCLING
270	01/01/36	ISSUED FOR REDEMPTION
271	02/01/36	ISSUED FOR RECONSTRUCTION
272	03/01/36	ISSUED FOR REPAIR
273	04/01/36	ISSUED FOR RESTORATION
274	05/01/36	ISSUED FOR REUSE
275	06/01/36	ISSUED FOR RECYCLING
276	07/01/36	ISSUED FOR REDEMPTION
277	08/01/36	ISSUED FOR RECONSTRUCTION
278	09/01/36	ISSUED FOR REPAIR
279	10/01/36	ISSUED FOR RESTORATION
280	11/01/36	ISSUED FOR REUSE
281	12/01/36	ISSUED FOR RECYCLING
282	01/01/37	ISSUED FOR REDEMPTION
283	02/01/37	ISSUED FOR RECONSTRUCTION
284	03/01/37	ISSUED FOR REPAIR
285	04/01/37	ISSUED FOR RESTORATION
286	05/01/37	ISSUED FOR REUSE
287	06/01/37	ISSUED FOR RECYCLING
288	07/01/37	ISSUED FOR REDEMPTION
289	08/01/37	ISSUED FOR RECONSTRUCTION
290	09/01/37	ISSUED FOR REPAIR
291	10/01/37	ISSUED FOR RESTORATION
292	11/01/37	ISSUED FOR REUSE
293	12/01/	







# pennsylvania

DEPARTMENT OF ENVIRONMENTAL PROTECTION

SOUTHEAST REGIONAL OFFICE

**RECEIVED**

JUL 22 2013

WILLISTOWN  
TOWNSHIP

July 10, 2013

**CERTIFIED MAIL NO. 7007 3020 0002 8265 1805**

Mr. David Burman  
Willistown Township  
40 Lloyd Avenue  
Suite 204/206  
Malvern, PA 19355

Re: WQM Permit - Sewage  
Willistown Township Sewers to VFSA WWTP  
Devon Road Project  
Permit No. WQG02151305  
AUTH ID No. 979036  
Willistown Township  
Chester County

Dear Mr. Burman:

Your Water Quality Management (WQM) permit is enclosed. You must comply with all Standard and Special Conditions attached to this Permit. Construction must be done in accordance with the Permit Application and all supporting documentation. Please review the permit conditions and the supporting documentation submitted with your application before starting construction.

Please note that you are responsible for securing all other required permits, approvals, and/or registrations associated with the project, if applicable, under Chapters 102 (Erosion and Sedimentation Control), 105 (Stream Obstructions and Encroachments), and 106 (Floodplains) of the Department of Environmental Protection's (DEP) regulations. Construction may not proceed until all other required permits have been obtained.

Also enclosed is the "Water Quality Management Post Construction Certification" form. A Pennsylvania-registered Professional Engineer must sign and complete this form prior to startup of the facilities. You or your authorized representative must also sign the form. This certification and other post-construction documentation must be submitted to DEP within 30 days of completion of the project and must be received by DEP prior to commencing operation of the facilities.

Mr. David Burman

- 2 -

Any person aggrieved by this action may appeal, pursuant to Section 4 of the Environmental Hearing Board Act, 35 P.S. Section 7514, and the Administrative Agency Law, 2 Pa.C.S. Chapter 5A, to the Environmental Hearing Board, Second Floor, Rachel Carson State Office Building, 400 Market Street, P.O. Box 8457, Harrisburg, PA 17105-8457, 717.787.3483. TDD users may contact the Board through the Pennsylvania Relay Service, 800.654.5984. Appeals must be filed with the Environmental Hearing Board within 30 days of receipt of written notice of this action unless the appropriate statute provides a different time period. Copies of the appeal form and the Board's rules of practice and procedure may be obtained from the Board. The appeal form and the Board's rules of practice and procedure are also available in braille or on audiotape from the Secretary to the Board at 717.787.3483. This paragraph does not, in and of itself, create any right of appeal beyond that permitted by applicable statutes and decisional law.

**IF YOU WANT TO CHALLENGE THIS ACTION, YOUR APPEAL MUST REACH THE BOARD WITHIN 30 DAYS. YOU DO NOT NEED A LAWYER TO FILE AN APPEAL WITH THE BOARD.**

**IMPORTANT LEGAL RIGHTS ARE AT STAKE, HOWEVER, SO YOU SHOULD SHOW THIS DOCUMENT TO A LAWYER AT ONCE. IF YOU CANNOT AFFORD A LAWYER, YOU MAY QUALIFY FOR FREE PRO BONO REPRESENTATION. CALL THE SECRETARY TO THE BOARD (717.787.3483) FOR MORE INFORMATION.**

During construction or upon completing construction, please contact Mr. Andrew Haneiko by e-mail at [ahaneiko@pa.gov](mailto:ahaneiko@pa.gov) or by telephone at 484.250.5183 so that an inspection of the facilities may be conducted, at DEP's discretion.

Sincerely,



Jennifer Fields, P.E.  
Regional Manager  
Clean Water

Enclosures

cc: Permits Chief  
Central Office - Operations Section  
Mr. Salameda - Advanced GeoServices  
Rc. 30 (eh13clw)171-10



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

**WQG-02**  
**WATER QUALITY MANAGEMENT**  
**GENERAL PERMIT FOR SEWER EXTENSIONS AND PUMP STATIONS**  
**PERMIT NUMBER WQG02151305**

<b>A. PERMITTEE (Name and Address):</b> Willistown Township Chester County 40 Lloyd Avenue Suite 204/206 Malvern, PA 19355 <b>CLIENT ID#: 86424</b>	<b>B. PROJECT/FACILITY (Name):</b> Willistown Twp Sewers to VFSA WWTP – Devon Road Project
<b>C. LOCATION (County, Municipality):</b> Willistown Township, Chester County	
<b>D. This General Permit approves the construction and operation of:</b> <input checked="" type="checkbox"/> <b>SEWER EXTENSION</b> <input type="checkbox"/> <b>PUMP STATION</b>	
<b>E. APPROVAL GRANTED BY THIS GENERAL PERMIT IS SUBJECT TO THE FOLLOWING:</b> 1. All construction, operations and procedures shall be in accordance with the <i>Domestic Wastewater Facilities Manual</i> . <b>Transfers:</b> In the event the permittee plans to transfer ownership of the facility to another entity, the permittee and the transferee shall submit an application for such transfer to DEP. If the transfer is approved by DEP, the transferee is subject to the terms and conditions of this General Permit. 2. The attached conditions apply to this General Permit and are hereby made part of same.	
<b>F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:</b> 1. If there is a conflict between the NOI or its supporting documents and amendments and the attached conditions, the attached conditions shall apply. 2. Failure to comply with the rules and regulations of DEP or with the terms or conditions of this General Permit shall void the authority given to the permittee by the issuance of this General Permit. 3. This General Permit is issued pursuant to the Clean Streams Law, Act of June 22, 1937, P.L. 1987, as amended 35 P.S. §691.1 <i>et seq.</i> Issuance of this General Permit shall not relieve the permittee of any responsibility under any other law.	
<b>PERMIT ISSUED:</b>  July 10, 2013	<b>BY:</b> <b>TITLE: Clean Water Program Manager</b>

Permit



**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

## PERMIT CONDITIONS

### General

1. Consistent with DEP's technical guidance document *Conducting Technical Reviews of Water Quality Management Permit Wastewater Treatment Facilities*, DEP ID: 362-2000-007, available on DEP's Web site, DEP considers the registered professional engineer whose seal is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility's design.
2. The approval is specifically made contingent on the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property with full rights of ingress, egress and regress.
3. If, at any time, the sewer extension and/or pump station covered by this General Permit creates a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
4. This permit does not relieve the permittee of its obligations to comply with all federal, interstate, state or local laws, ordinances and regulations applicable to the facilities.
5. This General Permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to, or over any lands which belong to the Commonwealth.
6. No discharge is authorized from these facilities unless approved by an NPDES Permit.

### Construction

7. An Erosion and Sedimentation (E&S) Control Plan must be developed prior to construction of the permitted facility, pursuant to Title 25 Pa. Code Chapter 102, and implemented during and after the earth disturbance activity.  
If the activity involves 5 or more acres of earth disturbance, or from 1 to 5 acres of earth disturbance with a point source discharge to surface waters of the Commonwealth, an NPDES Permit is required.  
In addition to the state NPDES permitting requirements, some municipalities, through local ordinances, require the E&S Control Plan to be reviewed and approved by the local county conservation district office prior to construction. For specific information regarding E&S control planning approval and NPDES permitting requirements please contact your local county conservation district office.
8. Prior to beginning any construction or excavation, the locations of all utility lines must be identified through notification to the PA One Call system ([www.paonecall.org](http://www.paonecall.org)). The notification shall not be less than three nor more than 10 working days in advance of beginning the construction or excavation.
9. The local waterways conservation officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if there is any use of explosives in any waterways and the permittee shall notify the local waterways conservation officer when explosives are to be used.
10. Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The whole manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities.
11. The facilities shall be constructed under the supervision of a Pennsylvania registered Professional Engineer in accordance with the approved reports, plans and specifications.

12. A Pennsylvania registered Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using "Post Construction Certification" (3800-PM-WSFR0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. If requested, "as-built" drawings, photographs (if available) and a description of any DEP-approved deviations from the application and design plans must be submitted to DEP within 30 days of certification. Construction must be completed within two years of permit issue date.

#### **Operation and Maintenance**

13. The permittee shall maintain sewer extension and/or pump station operation and maintenance (O&M) manuals at the facility and ensure proper O&M of the permitted facility. The permittee shall file the O&M manuals with DEP upon request.
14. Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sewer extension or pump station.
15. The sewer extension shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimal settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured.
16. The approved sewer extensions and/or pump stations shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary.
17. The sewer extension and/or pump station shall be properly operated and maintained so that the facility will perform as designed.
18. The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible.
19. There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water pipe shall pass through or come in contact with any part of the sewer extension and/or pump station.
20. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code, Chapters 271, 273, 275, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR Part 257 and the Federal Clean Water Act and its amendments.



COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF ENVIRONMENTAL PROTECTION  
 BUREAU OF WATER STANDARDS AND FACILITY REGULATION

**WATER QUALITY MANAGEMENT  
 POST CONSTRUCTION CERTIFICATION**

<b>PERMITTEE IDENTIFIER</b>	
Permittee	Willistown Township
Municipality	Willistown Township
County	Chester
WQM Permit No.	WQG02151305
Facility Type	Sewage
<b>All of the above information should be taken directly from the Water Quality Management Permit.</b>	
<b>CERTIFICATION</b>	
<p>This certification must be completed and returned to the permits section of the DEP's regional office issuing the WQM permit within 30 days of completion of the project and received by DEP prior to operation, and if requested, as-built drawings, photographs (if available) and a discussion of any DEP-approved deviations from the design plans during construction.</p>	
<p>I, being a Registered Professional Engineer in Pennsylvania, do hereby certify to the best of my knowledge and belief, based upon personal observation and interviews, that the above facility approved under the Water Quality Management Permit has been constructed in accordance with the plans, specifications and modifications approved by DEP.</p>	
<p>Construction Completion Date (MM/DD/YYYY): _____</p>	
<p><i>Engineer's Seal</i></p>	<b>Professional Engineer</b>
	Name _____ (Please Print or Type)
	Signature _____
	Date _____
	License Expiration Date _____
	Firm or Agency _____
	Telephone _____
	<b>Permittee or Authorized Representative</b>
	Name _____ (Please Print or Type)
	Signature _____
	Title _____
	Telephone _____



## WATER QUALITY MANAGEMENT PERMIT

<p>A. PERMITTEE (Name and Address): CLIENT ID#: <b>86424</b></p> <p><b>Willistown Township</b> <b>688 Sugartown Road</b> <b>Malvern, PA 19355-3302</b></p>	<p>B. PROJECT/FACILITY (Name):</p> <p><b>Penns Preserve WWTP / Willistown Township Sewer System</b></p>
--	---

<p>C. LOCATION (Municipality, County):</p> <p><b>Willistown Township, Chester County</b></p>	<p>SITE ID#: <b>255715</b></p>
--	--------------------------------

D. This permit approves the operation of sewage facilities consisting of: an influent pump station, bar screen, a two- cell treatment lagoon, a storage lagoon, a spray irrigation pump station, chlorine disinfection and two spray irrigation fields for treated effluent disposal

<p>Pump Stations: _____</p> <p>Design Capacity: _____ GPM</p>	<p>Manure Storage:</p> <p>Volume: _____ MG</p> <p>Freeboard: _____ Inches</p>	<p>Sewage Treatment Facility:</p> <p>Annual Average Flow: <u>.0450</u> MGD</p> <p>Design Hydraulic Capacity: <u>.0450</u> MGD</p> <p>Design Organic Capacity: <u>83.5</u> lb/day</p>
---	---	--

E. APPROVAL GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING:

1. **New Permits:** All construction, operations and procedures shall be in accordance with the Water Quality Management Permit application dated \_\_\_\_\_, its supporting documentation and addendums dated \_\_\_\_\_, which are hereby made a part of this permit.  
  
**Renewal:** All construction, operations and procedures shall be in accordance with the Water Quality Management Permit Amendment application dated 07/12/2019 and its supporting documentation and addendums dated 12/10/2019, which are hereby made a part of this amendment.  
  
 Except for any herein approved modifications, all terms, conditions, supporting documentation and addendums approved under Water Quality Management Permit No. 15961405 dated 10/15/08 and 02/16/10 shall remain in effect.  
  
**Transfers:** Water Quality Management Permit No. \_\_\_\_\_ dated \_\_\_\_\_ and conditions, supporting documentation and addendums are also made part of this transfer.
2. Permit Conditions Relating to Sewerage are attached and made part of this permit.
3. Special Conditions I-XIII are attached and made part of this permit.

F. THE AUTHORITY GRANTED BY THIS PERMIT IS SUBJECT TO THE FOLLOWING FURTHER QUALIFICATIONS:

1. If there is a conflict between the application or its supporting documents and amendments and the attached conditions, the attached conditions shall apply.
2. Failure to comply with the rules and regulations of DEP or with the terms or conditions of this permit shall void the authority given to the permittee by the issuance of this permit.
3. This permit is issued pursuant to the Clean Streams Law Act of June 22, 1937, P.L. 1987, as amended 35 P.S. §691.1 *et seq.* Issuance of this permit shall not relieve the permittee of any responsibility under any other law.
4. This permit shall expire on 02/28/2025. The permittee shall submit an application to renew the permit no later than 180 days prior to the permit expiration date.

<p><b>PERMIT ISSUED:</b> S/ <u>2/28/2020</u></p> <p>Permit Effective: <u>March 1, 2020</u></p>	<p><b>BY:</b> _____</p> <p><b>TITLE:</b> <b>Thomas L. Magge</b> <b>Clean Water Program Manager</b> <b>Southeast Regional Office</b></p>
--	---



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

**PERMIT CONDITIONS RELATING TO SEWERAGE**  
For use in Water Quality Management Permits

(Check boxes that apply)

**General**

- 1. The Department of Environmental Protection (DEP) considers the licensed Professional Engineer whose seal is affixed to the design documents to be fully responsible for the adequacy of all aspects of the facility design.
- 2. The permittee shall adopt and enforce an ordinance requiring the abandonment of privies, cesspools or similar receptacles for human waste and onlot sewage disposal systems on the premises of occupied structures accessible to public sewers. All such structures must be connected to the public sewers.
- 3. The outfall sewer or drain shall be extended to the low water mark of the receiving body of water. Where necessary to ensure proper mixing and waste assimilation, an outfall sewer or drain may be extended with appurtenances below the low water mark and into the bed of a navigable stream provided that the permittee has secured an easement, right-of-way, license or lease from DEP in accordance with Section 15 of the Dam Safety and Encroachments Act, the Act of November 26, 1978, P.L. 1375, as amended.
- 4. The approval is specifically made contingent on the permittee acquiring all necessary property rights, by easement or otherwise, providing for the satisfactory construction, operation, maintenance and replacement of all sewers or sewerage structures in, along or across private property with full rights of ingress, egress and regress.
- 5. When construction of the approved sewerage facilities is completed and before they are placed in operation, the permittee shall notify DEP in writing so that a DEP representative may inspect the facilities.
- 6. The approval of the plans, and the authority granted in this permit, if not specifically extended, shall cease and be null and void 5 years from the issuance date of this permit unless construction or modification of the facilities covered by this permit has begun on or before the fifth anniversary of the permit date.
- 7. If, at any time, the sewerage facilities covered by this permit create a public nuisance, including but not limited to, causing malodors or causing environmental harm to waters of the Commonwealth, DEP may require the permittee to adopt appropriate remedial measures to abate the nuisance or harm.
- 8. If, after the issuance of this permit, DEP approves a municipal sewage facilities official plan or an amendment to an official plan under Act 537 (Pennsylvania Sewage Facilities Act, the Act of January 24, 1966, P.L. 1535 as amended) in which sewage from the herein approved facilities will be treated and disposed of at other planned facilities, the permittee shall, upon notification from the municipality or DEP, provide for the conveyance of its sewage to the planned facilities, abandon use and decommission the herein approved facilities including the proper disposal of solids, and notify DEP accordingly. The permittee shall adhere to schedules in the approved official plan, amendments to the plan, or other agreements between the permittee and municipality. This permit shall then, upon notice from DEP, terminate and become null and void and shall be relinquished to DEP.
- 9. This permit does not relieve the permittee of its obligations to comply with all federal, interstate, state or local laws, ordinances and regulations applicable to the sewerage facilities.
- 10. This permit does not give any real or personal property rights or grant any exclusive privileges, nor shall it be construed to grant or confirm any right, easement or interest in, on, to or over any lands which belong to the Commonwealth.
- 11. The authority granted by this permit is subject to all effluent requirements, monitoring requirements and other conditions as set forth in the NPDES Permit and all subsequent amendments and renewals. No discharge is authorized from these facilities unless approved by an NPDES Permit.

**Construction**

- 12. This permit is issued under the authorization of The Clean Streams Law and 25 Pa. Code Chapter 91. The permittee shall obtain all necessary permits, approvals and/or registrations under 25 Pa. Code Chapters 102, 105 and 106 prior to commencing construction of the facilities authorized by this permit, as applicable. The permittee should contact the DEP office that issued this permit if there are any questions concerning the applicability of additional permits.

- 13. The facilities shall be constructed under the supervision of a Pennsylvania licensed Professional Engineer in accordance with the approved reports, plans and specifications.
- 14. A Pennsylvania licensed Professional Engineer shall certify that construction of the permitted facilities was completed in accordance with the application and design plans submitted to DEP, using the "Post Construction Certification" form (3800-PM-WSFR0179a). It is the permittee's responsibility to ensure that a Professional Engineer is on-site to provide the necessary oversight and/or inspections to certify the facilities. The certification must be submitted to DEP before the facility is placed in operation. As-built drawings, photographs (if available) and a description of all deviations from the application and design plans must be submitted to DEP within 30 days of certification.
- 15. Manhole inverts shall be formed to facilitate the flow of the sewage and to prevent the stranding of sewage solids. The manhole structure shall be built to prevent undue infiltration, entrance of street wash or grit and provide safe access to facilitate manhole maintenance activities.
- 16. The local Waterways Conservation Officer of the Pennsylvania Fish and Boat Commission (PFBC) shall be notified when the construction of any stream crossing and/or outfall is started and completed. A written permit must be secured from the PFBC if the use of explosives in any waterways is required and the permittee shall notify the local Waterways Conservation Officer when explosives are to be used.

**Operation and Maintenance**

- 17. The permittee shall maintain records of "as-built" plans showing all the treatment facilities as actually constructed together with facility operation and maintenance (O&M) manuals and any other relevant information that may be required. Upon request, the "as-built" plans and O&M manuals shall be filed with DEP.
- 18. The sewers shall have adequate foundation support as soil conditions require. Trenches shall be back-filled to ensure that sewers will have proper structural stability, with minimum settling and adequate protection against breakage. Concrete used in connection with these sewers shall be protected from damage by water, freezing, drying or other harmful conditions until cured.
- 19. Stormwater from roofs, foundation drains, basement drains or other sources shall not be admitted directly to the sanitary sewers.
- 20. The approved sewers shall be maintained in good condition, kept free of deposits by flushing or other cleaning methods and repaired when necessary.
- 21. The sewerage facilities shall be properly operated and maintained to perform as designed.
- 22. The attention of the permittee is called to the highly explosive nature of certain gases generated by the digestion of sewage solids when these gases are mixed in proper proportions with air and to the highly toxic character of certain gases arising from such digestion or from sewage in poorly ventilated compartments or sewers. Therefore, at all places throughout the sewerage facilities where hazard of fire, explosion or danger from toxic gases may occur, the permittee shall post conspicuous permanent and legible warnings. The permittee shall instruct all employees concerning the aforesaid hazards, first aid and emergency methods of meeting such hazards and shall make all necessary equipment and material accessible.
- 23. An operator certified in accordance with the Water and Wastewater Systems Operator Certification Act of February 21, 2002, 63 P.S. §§1001, *et seq.* shall operate the sewage treatment plant.
- 24. The permittee shall properly control any industrial waste discharged into its sewerage system by regulating the rate and quality of such discharge, requiring necessary pretreatment and excluding industrial waste, if necessary, to protect the integrity or operation of the permittee's sewerage system.
- 25. There shall be no physical connection between a public water supply system and a sewer or appurtenance to it which would permit the passage of any sewage or polluted water into the potable water supply. No water pipe shall pass through or come in contact with any part of a sewer manhole.
- 26. All connections to the approved sanitary sewers must be in accordance with the official Act 537 Plan and, if applicable, a corrective action plan as contained in the approved Title 25 Pa. Code Chapter 94 Municipal Wasteload Management Annual Report.
- 27. Collected screenings, slurries, sludge and other solids shall be handled and disposed of in compliance with Title 25 Pa. Code Chapters 271, 273, 275, 283 and 285 (related to permits and requirements for land filling, land application, incineration and storage of sewage sludge), Federal Regulations 40 CFR 257 and the Federal Clean Water Act and its amendments.



**WATER QUALITY MANAGEMENT  
 POST CONSTRUCTION CERTIFICATION**

**PERMITTEE IDENTIFIER**

Permittee	Willistown Township Chester County
Municipality	Willistown Township
County	Chester
WQM Permit No.	<u>1596405</u>
Facility Type	Sewage

**All of the above information should be taken directly from the Water Quality Management Permit.**

**CERTIFICATION**

This certification must be completed and returned to the permits section of the DEP's regional office issuing the WQM permit within 30 days of completion of the project and received by DEP prior to operation, and if requested, as-built drawings, photographs (if available) and a discussion of any DEP-approved deviations from the design plans during construction.

I, being a Registered Professional Engineer in Pennsylvania, do hereby certify to the best of my knowledge and belief, based upon personal observation and interviews, that the above facility approved under the Water Quality Management Permit has been constructed in accordance with the plans, specifications and modifications approved by DEP.

Construction Completion Date (MM/DD/YYYY): \_\_\_\_\_

Engineer's Seal	<b>Professional Engineer</b>
	Name _____ (Please Print or Type)
	Signature _____
	Date _____
	License Expiration Date _____
	Firm or Agency _____
	Telephone _____
	<b>Permittee or Authorized Representative</b>
	Name _____ (Please Print or Type)
	Signature _____
	Title _____
	Telephone _____



**COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

PRIMARY FACILITY NAME/ADDRESS

NAME Penns Preserve STP  
 CLIENT Willistown Township Chester County  
 ADDRESS 688 Sugartown Road  
 Malvern, PA 19355-3302  
 LOCATION Willistown Township  
 Chester County  
 WATERSHED 3-G

1596405  
PERMIT NUMBER

001  
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: March 1, 2020  
 DMR Effective To: February 28, 2025  
 Permit Expires: February 28, 2025  
 Permit Application Due: September 1, 2024  
 Check Here if No Discharge

MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY

NOTE: Read Instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION						NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE	
		VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS				VALUE
Flow Influent	PERMIT REQUIREMENT	0.045	Avg Mo	Report Daily Max	MGD	XXX	XXX	XXX	XXX	XXX	XXX	Continuous	Metered
	SAMPLE MEASUREMENT												
Flow	PERMIT REQUIREMENT	Report Avg Mo	MGD	Report Total Mo	MGD	XXX	XXX	XXX	XXX	XXX	XXX	Continuous	Metered
	SAMPLE MEASUREMENT												
pH	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	6.0	Inst Min	XXX	XXX	9.0	IMAX	1/month	Grab
	SAMPLE MEASUREMENT												
Carbonaceous Biochemical Oxygen Demand (CBOD5)	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	25	Avg Mo	XXX	XXX	50	IMAX	1/month	Grab
	SAMPLE MEASUREMENT												
Total Suspended Solids	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	30	Avg Mo	XXX	XXX	60	IMAX	1/month	Grab
	SAMPLE MEASUREMENT												
Fecal Coliform	PERMIT REQUIREMENT	XXX	XXX	XXX	XXX	200	Geo Mean	XXX	XXX	XXX	CFU/100 ml	1/month	Grab
	SAMPLE MEASUREMENT												

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

DATE

AREA CODE

NUMBER

YEAR

MO

DAY

COMMENTS (Report all violations on the "Non-Compliance Reporting Form")

3800-FM-BCW0462 12/2016



**COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF CLEAN WATER  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)  
DISCHARGE MONITORING REPORT (DMR)**

**PRIMARY FACILITY NAME/ADDRESS**

NAME Penns Preserve STP  
 CLIENT Willistown Township Chester County  
 ADDRESS 688 Sugartown Road  
Malvern, PA 19355-3302  
 LOCATION Willistown Township  
Chester County  
 WATERSHED 3-G

1596405	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: March 1, 2020  
 DMR Effective To: February 28, 2025  
 Permit Expires: February 28, 2025  
 Permit Application Due: September 1, 2024

Check Here if No Discharge

NOTE: Read Instructions before completing this form

PARAMETER	SAMPLE MEASUREMENT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Total Nitrogen		XXX		XXX	Report: Avg Mo	XXX	mg/L	1/month	Grab	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE		DATE			
	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA CODE	NUMBER	YEAR	MO
TYPED OR PRINTED						
COMMENTS (Report all violations on the "Non-Compliance Reporting Form")						

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine, imprisonment or knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

PRIMARY FACILITY NAME/ADDRESS

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
TYPED OR PRINTED				AREA CODE	NUMBER	YEAR
<p><small>Certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).</small></p>		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				
						COMMENTS (Report all violations on the "Non-Compliance Reporting Form")



## INSTRUCTIONS FOR COMPLETING DISCHARGE MONITORING REPORTS (DMRs)

### General

One or more Discharge Monitoring Reports (DMRs) are attached to your permit for reporting the results of self-monitoring activities as required by your permit. You should make copies of the DMRs for your ongoing use, unless you elect to participate in the Department of Environmental Protection's (DEP's) electronic DMR (eDMR) program (see [www.dep.pa.gov/edmr](http://www.dep.pa.gov/edmr)).

- Reporting frequencies will vary depending on the monitoring frequencies listed in your permit, and are generally monthly, quarterly semi-annually and annually.
- Your reports must be received by DEP on the 28<sup>th</sup> day of the month following the end of the reporting period, unless otherwise specified in Part C of your permit.
- Your permit may require submission of DMRs to other agencies, including the U.S. Environmental Protection Agency (EPA).
- If you receive DMRs in the mail from EPA, please discontinue use of DMR Form No. 3800-FM-BCW0462 and begin using EPA's DMRs.
- DMRs will generally include pre-populated information for permittee name and address, facility location, permit number, outfall number, permit expiration date, parameter names, and permit requirements. If you identify any errors on a DMR issued by DEP, please contact the DEP regional office that issued your permit. If you identify any errors on a DMR issued by EPA, please contact DEP's Central Office at 717-787-6744. **DO NOT make changes to DMRs issued to you.**
- You may use computer-generated replicas of Form No. 3800-FM-BCW0462 or of EPA's DMR if you receive prior approval from DEP and EPA. **DEP reserves the right to instruct you to discontinue the submission of computer-generated DMRs if the permit requirements you entered on the form are inaccurate.**

### Instructions

1. Enter statistical results into each blank field below the "VALUE" column headers. Results must be reported in the same units shown on the DMR.
2. Sum the total number of excursions or exceedances of permit limits across the row for each parameter and enter the value into the "NO. EX" field. For example, if the permit contains limits of 6.0 S.U. (Minimum) and 9.0 S.U. (Maximum) for pH, and the Minimum and Maximum results are 5.9 S.U. and 9.1 S.U., respectively, enter "2" into the "NO. EX" field.
3. Report the actual sampling frequency and sample type utilized during the reporting period in the fields corresponding to "Frequency of Analysis" and "Sample Type", respectively.
4. Type the name of the principal executive officer (or an authorized agent designated by a principal executive officer) who is taking responsibility for the report, sign the report (should be in ink), enter the telephone number of the responsible individual, and record the date that the report was signed. Mail only original, signed copies of DMRs.
5. In the Comments section at the bottom of the DMR, you may write a brief summary of violations in this section; however, DEP requests that all violations during the monitoring period be reported in more detail on DEP's **Non-Compliance Reporting Form** (3800-FM-BCW0440) and be submitted as an attachment to the DMR. Other uses of the Comments Section include explanations of attachments to the DMR, explanations for the unavailability of data, and brief summaries of issues that have affected operations or effluent quality during the monitoring period. Always consider attaching a letter or separate document to explain your situation in more detail.

**No Discharge or No Data Available**

If there was no discharge at all from an outfall during the monitoring period, check the “No Discharge” box on the top of the DMR. Complete the information above and below the table and mail the DMR to the appropriate agencies. Be sure to sign and date the DMR.

If there was no discharge of a specific parameter (e.g., if a chlorine limit is in the permit but chlorine was not used for disinfection during the entire reporting period), or if data are not available for a specific parameter for the entire reporting period, do not leave the DMR blank. Instead, report one of the following No Data Indicator (NODI) codes that apply to your situation in the appropriate value field, and **provide an explanation as an attachment to the DMR:**

- A** Use if you are exempted from monitoring the parameter because of a General Permit condition.
- E** Use if all samples or results are not available for the reporting period due to equipment failure or because sample collection was overlooked or samples could not be collected for the parameter.
- GG** Use if your permit requires sample collection and analysis only under certain conditions and those conditions were not met during the reporting period (e.g., report chlorine results only when chlorination system is used).
- FF** Other: use if there is any reason for the absence of data that is not covered by those above.

If you have at least one result for a parameter, the value should be reported and not a NODI code.

**Calculations**

The following explains how to calculate statistical values that are commonly required by permits:

**Monthly Average** – For Loading (lbs/day), sum the total of daily loadings and divide by the number of samples during the month. To calculate the daily loading, multiply the daily concentration (mg/l) by the flow (MGD) on the date of sampling and a conversion factor of 8.34. For Concentration, sum the total of daily concentrations and divide by the number of samples.

**Weekly Average** – For Loading (lbs/day), sum the total of average daily loadings during each week of the reporting period (beginning on a Sunday and ending on a Saturday) and divide by the number of samples during the week. For Concentration, sum the total of daily concentrations each week and divide by the number of samples. Report the maximum weekly average on the DMR.

**Maximum Daily (“Daily Max”)** – Report the maximum concentration or load measured during a 24-hour period during the reporting period; if multiple measurements are taken daily, include all data in the analysis.

**Instantaneous Maximum (“IMAX”)** – Report the maximum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

**Instantaneous Minimum (“Minimum”)** – Report the minimum result obtained by a grab sample for a specific pollutant over the entire reporting period covered by a DMR.

**Total Monthly Load (lbs)** – Sum the total of average daily loadings, divide by the number of samples during the month, and multiply by the number of days in the month.

**Geometric Mean** – Report the average of a set of  $n$  sample results given by the  $n$ th root of their product. If any result is zero (0), substitute 1 for the calculation. For example, five samples were analyzed with the following results: 20, 300, 400, 500, and 0. The calculation of geometric mean is as follows (note that you will need to use the power function on a calculator):

$$\sqrt[5]{20 \cdot 300 \cdot 400 \cdot 500 \cdot 1} = \sqrt[5]{1,200,000,000} = (1,200,000,000)^{1/5} = 65$$

## Non-Detect Data

### Conventional and Toxic Parameters

For calculating average values of data sets in which there are some "detections" (results at or above the laboratory reporting limit) and some "non-detect" data (results reported below the laboratory reporting limit), use the reporting limit for non-detect data. In other words, ignore the less than (<) symbol for statistical calculations and include the < symbol with the statistical result if there is at least one non-detect result in the data set. For example, four samples were analyzed with the following results: < 1.0, 2.0, < 1.0, and 1.0. The average statistical result is < 1.3.

Where the permit includes an effluent limitation for a parameter that is less than the most sensitive detection limit available, and the laboratory reports a value at or below the lowest level specified by the permit, you may use zero (0) in the calculation in lieu of the reporting limit, if the parameter is identified in 25 Pa. Code Chapter 16, Appendix A, Tables 2A and 2B. In general, parameters with limitations that are less than the most sensitive detection limit will be identified in Part C of the permit, if applicable.

### Bacteria Parameters

Report all "non-detect" (e.g., < 2) and "too numerous to count" (TNTC) (e.g., > 2,000) results on DMR supplemental forms as reported by the laboratory. Do not report "TNTC" on supplemental forms, but instead report a value qualified with the ">" symbol. Where a data set includes one or more "non-detect" and/or TNTC results, calculate the geometric mean by ignoring qualifying symbols, but report the value with the symbol. If a data set includes both ">" and "<" qualifiers, the ">" qualifier takes precedence for reporting. For all "non-detect" values, specify in the Comments section of the DMR the maximum volume filtered at the laboratory.

*Example 1* – For results are determined, < 2, 10, 20, and 30. The geometric mean should be reported as  $< (2 \cdot 10 \cdot 20 \cdot 30)^{0.25} = < 10$ . Specify the maximum volume filtered for the < 2 result in the DMR Comments.

*Example 2* – Three results are determined, < 2, 1,000, and > 2,000. The geometric mean should be reported as  $> (2 \cdot 1,000 \cdot 2,000)^{0.333} = > 158$ .

### Rounding and Precision

Statistical values reported on the DMR should be rounded to the same number of decimal places as the limit for the parameter as set forth in the permit. If the permit does not contain a limit but requests monitoring only, statistical values for concentration results should be rounded to the maximum number of decimal places in the data set as reported by the laboratory or the instrument used for analysis. If mass loads must be reported and there is no limit, round statistical values to the nearest whole number, unless the calculated number is less than one, in which case the value should be rounded to one significant figure (e.g., 0.1, 0.05, etc.). If the number you are rounding is followed by 5, 6, 7, 8, or 9, round the number up, otherwise round down.

The documents "Discharge Monitoring Reports Overview and Summary" (3800-BK-DEP3047) and "Management of Non-Detect Results for Discharge Monitoring Reports" (3800-FS-DEP4262) contain more information and are incorporated by reference. These documents are available on DEP's website.

**SUPPLEMENTAL REPORT – CHEMICAL ADDITIVES USAGE**

Facility Name: Willistown Township Sewer System County: Chester Month: \_\_\_\_\_ Year: \_\_\_\_\_  
 Municipality: Willistown Township NPDES Permit No.: 1596405 Outfall No.: \_\_\_\_\_  
 Watershed: 3-G Renewal application due **180 days** prior to expiration  
 This permit will expire on **FEBRUARY 28, 2025**

Day	gallons		lbs													
	gallons	lbs														
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																
31																
Average																
Maximum																

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Title: \_\_\_\_\_ Date: \_\_\_\_\_



COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

**SUPPLEMENTAL REPORT  
LAND APPLICATION SYSTEMS**

Facility Name: Willistown Township Sewer System  
Municipality: Willistown Township  
Watershed: 3-G  
County: Chester

Month: \_\_\_\_\_  
Permit No.: 1596405  
This permit will expire on FEBRUARY 28, 2025

Year: \_\_\_\_\_  
Outfall No.: \_\_\_\_\_

Day	Zone:		Zone:		Zone:		Precipitation		Average Temp °F	Ground Conditions (Wet, Dry, Frozen)
	Acres:	Gallons	Acres:	Gallons	Acres:	Gallons	Inches	Type		
1										
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										
16										
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										
31										
Totals:										

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: \_\_\_\_\_ Signature: \_\_\_\_\_  
Title: \_\_\_\_\_ Date: \_\_\_\_\_





**NON-COMPLIANCE REPORTING FORM**

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of Pollution Incidents, Remediation, and may require an additional report on the incident or plan of pollution prevention measures. If you are reporting other non-compliance events, and the reporting deadline does not coincide with your submission of the DMR, it should be submitted separately to the Department by the reporting deadline set forth in the permit. See instructions for more information.

Facility Name: Willistown Township Sewer System Month: \_\_\_\_\_ Year: \_\_\_\_\_  
 Municipality: Willistown Township County: Chester Permit No.: 1596405

**Violations of Permit Effluent Limitations\***

Date	Parameter	Permit Limit	Units	Statistical Code	Result	Units	Cause of Violation	Corrective Action Taken

**Sanitary Sewer Overflows and Other Unauthorized Discharges\***

Event Date	Substance Discharged	Location	Volume (gals)	Duration (hrs)	Receiving Waters	Impact on Waters	Cause of Discharge	Date DEP Notified

**Other Permit Violations\***

- Sample collection less frequent than required Explain \_\_\_\_\_
- Sample type not in compliance with permit Explain \_\_\_\_\_
- Violation of permit schedule Explain \_\_\_\_\_
- Other Explain \_\_\_\_\_
- Other Explain \_\_\_\_\_

**\* If the space provided is not sufficient to record all information, please attach additional sheets.**

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: \_\_\_\_\_ Signature: \_\_\_\_\_  
 Title: \_\_\_\_\_ Date: \_\_\_\_\_





**SPECIAL CONDITIONS**  
 Water Quality Management Permit No. 1596405  
 Penns Preserve WWTP  
 Willistown Township, Chester County

This permit is subject to the following special conditions:

I. Effluent from the sewage treatment plant shall be sampled from a point after the Effluent Storage Tank and shall be limited as follows:

Parameter	Discharge Limitations (mg/l)			Monitoring Requirements	
	Average Monthly	Average Weekly	Instantaneous Maximum	Measurement Frequency	Sample Type
Influent Flow (gpd)	45,000		Report Daily Maximum	Continuous	Meter
Effluent Flow (gpd)	Monitor/Report		Report Monthly Total	Continuous	Meter
CBOD <sub>5</sub>	25		50	1/Month	Grab
Total Suspended Solids	30		60	1/Month	Grab
Fecal Coliform	200/100ml as geometric average			1/Month	Grab
pH	Within limits of 6.0 to 9.0 standard units at all times			1/Month	Grab

Additional treatment requirements include the satisfactory disposal of sludge and the reduction of quantities of oils, greases, acids, alkalis, toxic, taste and odor producing substances, inimical to the public interest to levels which will not pollute the receiving waters.

Monitoring results shall be reported monthly on the Discharge Monitoring Report (DMR). The term "composite" sample means a combination of individual samples collected at regular intervals over a time period. The term "grab" sample means an individual sample collected in less than 15 minutes. Samples and measurements taken as required, herein, shall be representative of the volume and nature of the monitored discharge.

II. Copies of monthly Discharge Monitoring Reports must be submitted within 28 days of the end of the monitoring period to:

Department of Environmental Protection  
 Southeast Regional Office  
 Water Management  
 2 East Main Street  
 Norristown, PA 19401

III. Unless, otherwise, specified in this permit, the test procedures for analysis of pollutants shall be those contained in 40 C.F.R. Part 136, or alternative test procedures approved pursuant to that Part. For the analysis of CBOD<sub>5</sub>, consult Section 507 of Standard Methods.

IV. If the permittee monitors any pollutant more frequently than the permit requires, the results of this monitoring shall be incorporated, as appropriate, into the calculations used to report self-monitoring data on the DMR.

V. **Groundwater Monitoring Requirements**

The permittee shall effectively monitor the quality of the groundwater. The parameters to be tested, and frequency of analysis and other monitoring requirements shall be as follows:

- A. Quarterly analysis of groundwater sampled at groundwater monitoring wells MW-2, MW-3, MW-4, MW-5, MW-6, MW-7 and MW-8 shall consist of: static water level, sampling depth, turbidity, pH, chloride, total phosphorus, ammonia nitrogen, nitrate nitrogen, nitrite nitrogen, total dissolved solids, fecal coliform, and alkalinity.
- B. Annual analysis of groundwater sampled at all groundwater monitoring wells shall consist of: total solids, settleable solids, suspended solids, total iron, total manganese, sulfate, and sodium.
- C. Groundwater elevations must be measured prior to purging the groundwater monitoring well.
- D. Before collection of the groundwater sample, a groundwater monitoring well shall be properly purged and allowed to recover to at least 90 percent of the well volume that was present prior to purging.
- E. All groundwater samples shall be collected from within the top five feet of the water elevation within the well column.

VI. **Groundwater Monitoring Data Reporting Requirements**

A. **Annual Groundwater Report**

All groundwater data shall be submitted to DEP **annually** and be in **report form**. The report shall be due to the Department of Environmental Protection (DEP) within 28 days of the end of the month of permit issuance. For example, if your permit was issued on March 4th, then your annual report is due by April 28th.

The annual report shall be mailed under separate cover and addressed to:

Department of Environmental Protection  
Southeast Regional Office  
Clean Water Program  
2 East Main Street, Norristown, PA 19401  
Attention: Hydrogeologist, Planning Section

The Annual Groundwater Monitoring Report shall include the following information:

- 1. General Information
  - a. Facility name
  - b. Facility permit number
  - c. Facility location (including municipality and county)
  - d. Facility contact information:
    - i. permittee name, address, and telephone number
    - ii. contact name and title
    - iii. facility operator name, address, and telephone number
    - iv. facility consultant name, address, and telephone number
- 2. Site Data

- a. A brief narrative that provides the date and description of any facility event which may have impacted any part of the groundwater monitoring program. (e.g., collapse of groundwater monitoring well, etc.).
- b. Average effluent flow for the year covered by the report.
- c. In tabular form, the following information needs to be provided for at least the last 5 years of system operation:
  - i. Date of sampling.
  - ii. Groundwater elevation.
  - iii. Sampling depth.
  - iv. Identification of upgradient and downgradient wells.
  - v. The results of the analysis of the samples.
- d. Background groundwater data generated prior to system start-up. **This information is absolutely needed and needs to be included in the data tabulation.**

**B. Comprehensive Groundwater Evaluation (CGE)**

As part of the facility's 5-year permit renewal application, the permittee shall submit a report that is a result of a comprehensive evaluation of the systems impact on groundwater. A Registered P.G. must identify any trends which may pose a threat to human health or certify that none are present. Should adverse impacts to groundwater be identified, the permittee needs to recommend actions to address the potential threat.

**C. Groundwater Background Report**

Within 60 days of system start up, or upon issuance of permit renewal a Groundwater Background Report shall be submitted to DEP. The report shall include the follow information:

- 1. Site Information
  - a. Brief narrative, including site limitations.
  - b. Soil type and bedrock lithology beneath the absorption areas.
  - c. Site drawings showing general location of absorption fields and monitoring wells. Drawings must show site topography.
- 2. Construction details of each groundwater monitoring well shall include:
  - a. Well depth.
  - b. Casing depth.
  - c. Static water levels.
  - d. Surface elevation.
  - e. Well log.
  - f. Water bearing zones.
  - g. Top of casing elevation.
  - h. Ground surface elevation.

**The Groundwater Background Report is a one-time report. Should future changes or additions occur for any information in this section, an addendum that can be added to the report is all that is needed to update this report.**

**VII. Conditions for Spray Fields in Operation:**

- A. Application of the effluent shall be managed to prevent runoff from the permitted spray fields and ponding of effluent.
- B. No irrigation is to occur on frozen soils.
- C. No irrigation is to occur if more than 0.5 inches of rainfall has fallen during the previous 24 hours.
- D. The operator is to assess soil moisture content and soil/vegetation conditions frequently. It is the operator's responsibility to inspect the fields on a routine basis to prevent and/or address damage to the irrigation fields.
- E. The spray fields shall be maintained to ensure that vegetation does not interfere with or impair proper operation of the spray heads.
- F. All non-forested spray fields must be maintained in perennial grass cover. Each growing season, the grasses must be harvested by cutting, with clippings removed off the spray fields.
- G. Fallen trees in wooded spray fields are required to be harvested. All work must be conducted during dry or frozen soil conditions to prevent damage to the soil.
- H. The permittee shall include with the monthly Discharge Monitoring Report a Supplemental Land Application System Form 3800-FM-BPNPSM0449 that indicates the gallons per day discharged to each of the constructed zones.
- I. Effluent flows to each spray field must be consistent with the maximum hydraulic loading requirements of the following tables, which provide the weekly maximum irrigation gallons for each zone.

**MAXIMUM WEEKLY HYDRAULIC LOADINGS  
IN GALLONS PER ZONE  
Zone 1 (Phase 1 Constructed)  
Well Drained Soils 6.81 acres Grass Field**

Month	In/ac/wk	(gallons/week)
January	0.50	92,454
February	0.50	92,454
March	1.50	277,362
April	1.50	277,362
May	2.00	369,816
June	2.50	462,270
July	2.50	462,270
August	2.50	462,270
September	2.50	462,270
October	2.00	369,816
November	1.50	277,362
December	0.50	92,454

**Zone 2 (Phase I Constructed)  
Moderately Well Drained Soils 2.15 acres Grass Field**

Month	In/ac/wk	(gallons/week)
January	0.50	29,189

February	0.50	29,189
March	0.50	29,189
April	1.00	58,378
May	1.00	58,378
June	1.50	87,566
July	1.50	87,566
August	1.50	87,566
September	1.00	58,378
October	1.00	58,378
November	0.50	29,189
December	0.50	29,189

**Zone 3 (Phase II)**  
**Moderately Well Drained Soils 3.81 acres Forested**

Month	In/ac/wk	(gallons/week)
January	0.50	51,725
February	0.50	51,725
March	0.50	51,725
April	1.00	103,451
May	1.00	103,451
June	1.50	155,176
July	1.50	155,176
August	1.50	155,176
September	1.00	103,451
October	1.00	103,451
November	0.50	51,725
December	0.50	51,725

**Zone 4 (Phase II)**  
**Well Drained Soils 3.94 acres Grass Field**

Month	In/ac/wk	(gallons/week)
January	0.50	53,490
February	0.50	53,490
March	1.50	160,471
April	1.50	160,471
May	2.00	213,961
June	2.50	267,451
July	2.50	267,451
August	2.50	267,451
September	2.50	267,451
October	2.00	213,961
November	1.50	160,471
December	0.50	53,490

**VIII. Storage Lagoon Management**

- A. The wastewater level in the storage lagoon shall be managed within the low and high-water level parameters as designed. The water level shall be controlled so that a freeboard of at least 24 inches is maintained, at all, times. The Department must be notified if the water level is anticipated to enter freeboard.

**IX. Conditions for Phase II Spray Field Construction**

- A. The Department must be notified at least two (2) weeks prior to the start of any construction activity on the system so that a pre-construction meeting with the Department can be held. Representatives from the permittee, design engineer, and system contractor must attend the pre-construction meeting.
- B. Prior to any construction activity, soil moisture levels, as confirmed by the Department, shall be such that a sample of natural mineral soil taken from the level of the maximum excavation will crumble if in a ball. Should any rain event occur during installation, the installation shall stop, and the site soil moisture levels are to be re-tested before work may proceed.
- C. At no time shall any material be stockpiled on the spray field areas. Care shall be exercised during construction to prevent undue compaction and damage to the soils and system. Only lightweight, low compaction equipment (less than 15,000 pounds; less than 6.5 pounds per square inch ground pressure) may be used on or in the irrigation fields.
- D. No roads or permanent paths may be constructed through the irrigation fields.
- E. When the system is complete and before start-up, the permittee shall notify the Department in writing that the system is complete and ready for inspection. All fields shall have established and sufficient vegetative cover to prevent soil erosion and run off.

**X. Recording of Results**

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- A. The exact place, date, and time of sampling or measurement.
- B. The person(s) who performed the sampling or measurement.
- C. The dates the analyses were performed.
- D. The person(s) who performed the analyses.
- E. The analytical techniques or methods used.
- F. The results of such analyses.

**XI. Recordkeeping and Retention**

The permittee shall keep records of operation and efficiency of the wastewater treatment facilities. All records of monitoring activities and results (including all original strip chart recordings for continuous monitoring instrumentation and calibration and maintenance records), copies of all reports required by this permit, and records of all data used to complete the application for this permit shall be retained by the permittee for three (3) years. The three-year period shall be extended as requested by the Department.

**XII. Laboratory Certification**

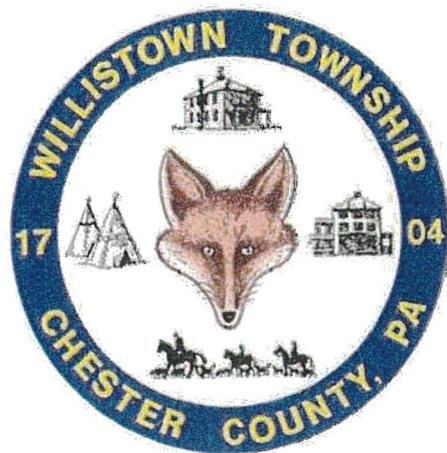
The Environmental Laboratory Accreditation Act of 2002 requires that all environmental laboratories register with the Department of Environmental Protection. An environmental laboratory is any facility engaged in the testing or analysis of environmental samples required by a statute administered by the Department relating to the protection of the environment or of public health, safety, and welfare.

- XIII.** The authorization to discharge contained in Section C of this permit shall expire in five years from the date of issuance, or reissuance. Application for renewal of this permit, or notification of intent to cease discharging by the expiration date, must be submitted to the Department at least 180 days prior to the above expiration date (unless permission has been granted by the Department for submission at a later date). In the event that a timely and complete application for renewal has been submitted and the Department is unable, through no fault of the permittee, to reissue the permit before the above expiration date, the terms and conditions of this permit will be

automatically continued and will remain fully effective and enforceable pending the grant or denial of the application for permit renewal. The application for renewal shall be submitted on the appropriate Water Quality Management Part II Application forms and shall include a tabulated summary of all groundwater monitoring data for the previous five years, including a discussion of groundwater quality trends resulting from this discharge.

## 7. OPERATING EXPENSES

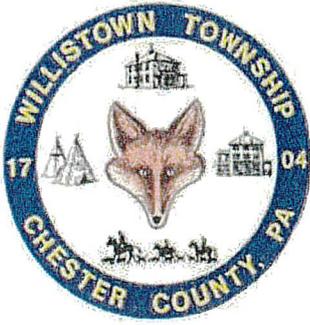
# **Willistown Township 2020 Operating and Capital Budget Proposal**



**November 25, 2019**

## TABLE OF CONTENTS

1. Budget Message from Township Manager	Page 3
2. Proposed Capital Budget Detail	Page 5
3. Willistown Township Revenue and Expense Categories	Page 6
4. Willistown Township Fund Structure and Budget Detail	Page 7
5. 2020 Operating, Sewer and Capital Budget Proposal Summary	Page 9
6. 2020 Budget Proposal	Page 15



*Board of Supervisors of Willistown Township  
Chester County*

688 Sugartown Road, Malvern, PA 19355  
Phone: 610.647.5300 Fax: 610.647.8156

November 26, 2019

Board of Supervisors  
Willistown Township  
688 Sugartown Road  
Malvern, PA 19355

Dear Board of Supervisors:

It is my pleasure to present the 2020 Operating, Capital and Sewer budgets. These budgets represent the culmination of a process that started in August and involved hours of hard work by the Board of Supervisors and Township staff. Without this effort, I would not be able to present these budgets and the contributions of all are gratefully acknowledged and appreciated.

The 2020 Budget, as proposed, is balanced will allow the Township to continue providing the highest level of services, with no increases in taxes, sewer rates or permit fees. The real estate tax millage of 0.28 mills is among the lowest in Chester County.

As always, Willistown Township will continue to provide the highest level of service possible that exceeds in value the taxes paid by the average property owner.

This would not be possible without a carefully executed economic strategy developed by the Board of Supervisors. The Board takes a conservative spending approach that results in an annual surplus. By the end of 2019, a General Fund Surplus is projected of \$788,000. Seventy-seven percent (77%) of that surplus, \$605,000, will be transferred to the Capital Reserve Fund, with the balance remaining in the General Fund.

Overall, the Township's proposed 2020 General Fund Budget of \$9,106,162 reflects a minimal increase of 3.1% as compared to that of the prior year. Costs under the General Government category have actually decreased by 1.5%. Healthcare coverage costs are increasing by only 2%, which is extremely low despite current market conditions.

The 2020 Budget Proposal also includes funding for a \$647,000 capital spending plan, reflecting an increase of only one percent (1%) as compared to the prior year. The Capital Budget includes funding across all Township Departments and is highlighted on page five (5) of this document.

The Board of Supervisors continues to support Fire and EMS services in the Township by allocating an additional 10% for funding to the four Fire Companies who service the Township. Additionally, \$25,000 is included to fund a study and recommendations on the future of firefighting and emergency medical services in the Township.

In the pages that follow, I explain Willistown's Fund Structure and I provide details about the categories of revenues and funds in Willistown Township. Please refer to these details as you consider the 2020 Budget Proposal and feel free to contact me directly if you have any questions, concerns, or comments.

I assure the Board of Supervisors and the Willistown residents that the Township will continue to make prudent financial decisions in 2020. With the continued cooperation of the Willistown community, the staff will continue to provide high quality services in the most cost-effective and efficient manner possible.

I would like to thank the Board of Supervisors and the Township's Department Heads who assisted in the budget process, in particular Finance Director Martin McKenzie.

The Board of Supervisors has set December 16, 2019 at 7:00 p.m. for the hearing and adoption of the proposed 2020 budgets.

I respectfully submit and officially post the proposed 2020 Operating, Sewer and Capital Budgets for Willistown Township and recommend their adoption.

Sincerely,



Sally Slook  
Township Manager

## Proposed 2020 Capital Budget

### Public Safety

The Police department requests funding in the amount of \$114,960, for the following: the replacement of two (2) police vehicles, new tasers and IT upgrades to the Police Building.

### Public Works

The Public Works department requests funding in the amount of \$483,000. This includes: one (1) replacement dump truck, stormwater improvements, replacement equipment, facility and bridge work and additional funding toward the Township's Road Resurfacing program.

### Parks and Recreation

The Parks & Recreation department has requested \$40,000 in funding to replace playsets at Greentree Park.

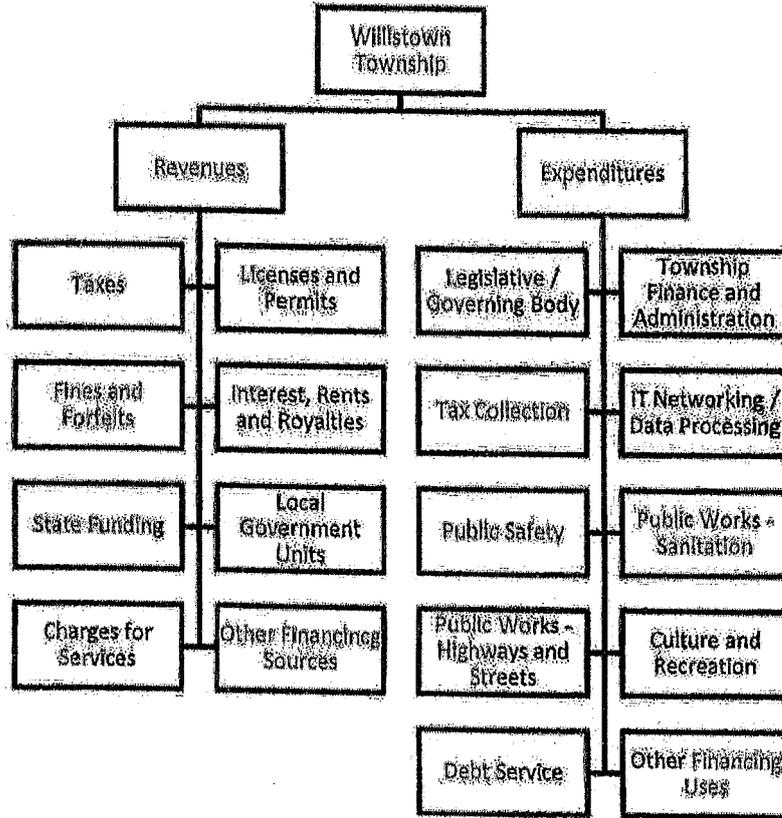
### Administration

The Administration department has requested \$10,000 in funding to complete the implementation requirements of a new accounting software package that was purchased last year.

**Willistown Township Revenue and Expense Categories**

As required by the Pennsylvania Second Class Township Code, the proposed budget reflects the major categories of revenues and expenditures. A major category is defined as a group of related revenue or expense items, the combined total of which is listed as a line item.

The proposed budget includes the following major categories of revenues and expenditures within each fund that is available for appropriation by the Board of Supervisors.



## Willistown Township Fund Structure

### 1. Governmental Funds for General Appropriation

The **General Fund** is the Township's primary operating fund which accounts for all financial resources except those that are legally or administratively required to be accounted for in another fund. Although the operating budget includes separate displays for the *General Fund*, the *Operating Reserve Fund*, and the *Capital Reserve Fund*, it is important to note that these accounts are consolidated for financial reporting and auditing purposes.

### 2. Governmental Funds for Restricted Purposes

The **Open Space Fund** is largely restricted to the acquisition of parkland and open space for the benefit of the public. In addition, Act 115 of 2013 authorizes the Township to annually expend up to 25% of the accumulated fund balance, to develop, improve, design, engineer and maintain property acquired for open space under State Law.

The **Bartram Bridge Fund** is utilized to account for the operating and capital expenditures associated with the Bartram Bridge Joint Preservation Board. The Joint Preservation Board identifies problems and recommends plans and programs to the respective governing bodies of Willistown and Newtown Townships for the repair, supervision, operation and maintenance of the Bartram Covered Bridge.

Sometimes referred to as the State Highway Aid Fund, the **State Liquid Fuels Fund** is utilized to account for receipts from the State Motor License Fund and allowable highway expenditures.

### 3. Proprietary Funds for Restricted Purposes

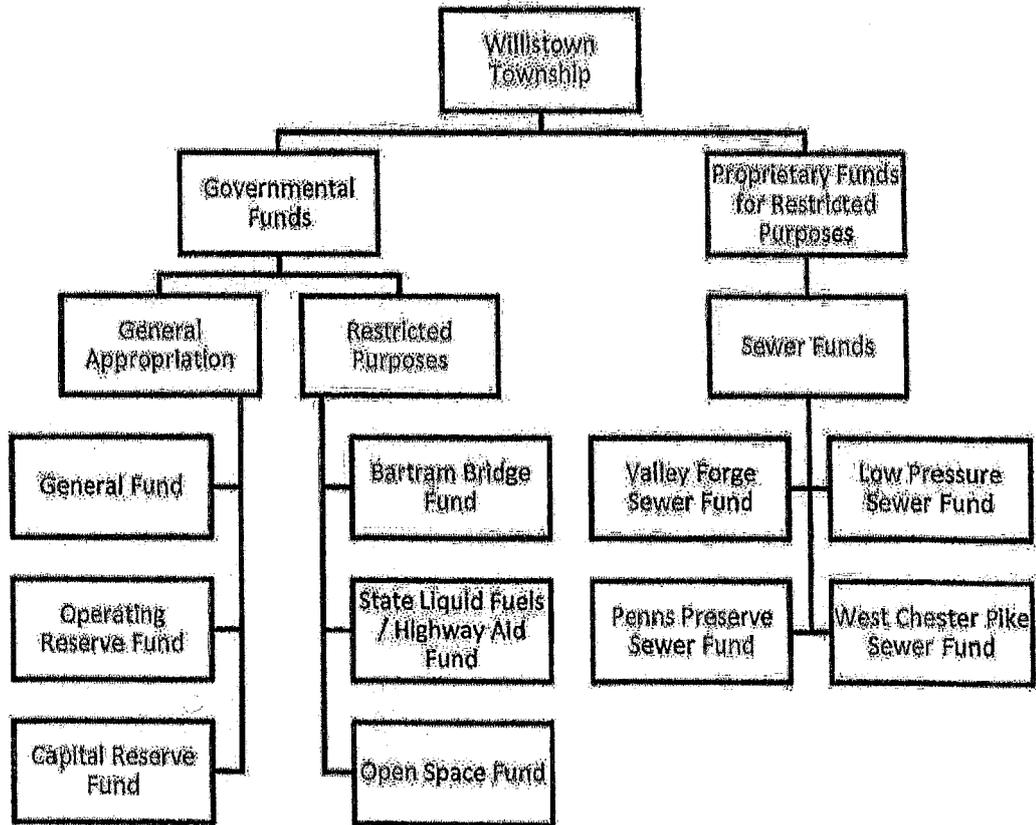
The Township's Sewer Funds are used to account for transactions related to the billing and collection of sanitary sewer fees, expenditures, and other transactions related to the collection, conveyance, and treatment of wastewater.

The **Valley Forge Sewer Fund** is used to account for service provided to customers in the area whose sewage is conveyed to the Valley Forge Sewer Authority through the Valley Creek Trunk Sewer in Tredyffrin Township.

The **Low Pressure Sewer Fund** is used to account for services provided to those customers whose properties lie at a lower elevation than the gravity sewer mains, and therefore require sewage grinder pumps to evacuate their sewage into a low pressure sewer main until it reaches the gravity sewer main.

The **Penn's Preserve Fund** is used to account for services provided to the customers in the Penn's Preserve service area.

The **West Chester Pike Sewer Fund** is used to account for capital costs associated with the extension of sanitary sewer service to accommodate thirteen residential properties on the south side of West Chester Pike just west of Street Road.



Willistown Township  
 2020 Operating and Capital Budget Proposal  
 All Funds Available for Appropriation

	Governmental Funds for General Appropriation			Governmental Funds for Restricted Purposes				Proprietary Funds for Restricted Purposes				Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	
Projected Balance at December 31, 2019	\$5,092,808	\$1,862,876	\$1,066,964	\$4,509,005	\$14,332	\$246,886	\$524,792	\$139,488	\$3,523,687	\$332,934	\$123,879	\$17,425,651
Revenues:												
Real Estate Taxes	\$347,000	-	-	-	-	-	-	-	-	-	-	\$347,000
Local Service Tax	\$275,000	-	-	-	-	-	-	-	-	-	-	\$275,000
Real Estate Transfer Tax	\$630,000	-	-	-	-	-	-	-	-	-	-	\$630,000
Earned Income Tax	\$6,448,560	-	-	\$725,000	-	-	-	-	-	-	-	\$7,173,560
Fees, Forfeitures, and Other Costs	\$23,000	-	-	-	-	-	-	-	-	-	-	\$23,000
Cable Franchise Fees	\$300,000	-	-	-	-	-	-	-	-	-	-	\$300,000
Interest Dividends and Rents	\$75,000	\$18,000	\$10,000	\$35,000	\$150	\$2,000	\$5,000	\$2,000	\$30,000	\$1,000	\$4,000	\$179,150
Park & Recreation Fees	\$15,000	-	-	-	\$1,500	-	\$386,138	-	-	-	-	\$386,138
Charges for Services	\$23,158	-	-	-	\$1,500	-	-	\$146,608	\$1,653,811	-	\$65,800	\$2,532,213
Miscellaneous	\$84,000	-	-	-	\$1,500	-	-	-	-	-	-	\$82,158
Interfund Transfers	\$9,106,162	\$18,000	\$10,000	\$760,000	\$3,150	\$2,000	\$391,198	\$148,608	\$1,888,811	\$1,000	\$66,800	\$12,395,729
Total Revenue	\$17,260,830	\$18,000	\$10,000	\$5,269,005	\$3,150	\$2,000	\$396,198	\$148,608	\$5,412,498	\$1,000	\$66,800	\$22,072,979
Total Expenditures by Department:												
General Government	\$1,726,030	-	\$10,000	\$1,000	\$3,940	-	-	\$4,000	\$273,609	-	-	\$2,027,579
Sanitary Sewer Operations	\$1,001,758	-	\$483,000	-	-	-	-	\$172,350	\$1,929,288	-	\$63,000	\$2,764,638
Public Works	\$97,925	-	\$40,000	\$552,760	-	-	\$410,000	-	-	-	-	\$1,894,758
Culture & Recreation	\$5,410,449	-	\$144,960	-	-	-	-	-	-	-	-	\$5,990,685
Public Safety - Police	\$568,500	-	-	-	-	-	-	-	-	-	-	\$568,500
Public Safety - Fire	\$1,500	-	-	-	-	-	-	-	-	-	-	\$1,500
Interfund Transfers	\$9,196,162	-	\$647,960	\$553,760	\$3,940	-	\$410,000	\$176,350	\$2,207,395	-	\$63,000	\$13,188,470
Total Expenditures	\$18,000	\$18,000	\$637,960	\$206,240	\$1,900	\$2,000	\$18,000	\$273,609	\$3,150	\$1,000	\$63,000	\$18,000
Net Activity For Year	\$5,092,808	\$1,862,876	\$428,004	\$4,715,245	\$1,150	\$2,000	\$505,990	\$109,746	\$3,206,604	\$333,934	\$127,879	\$6,652,910
Projected Cash Balance at December 31, 2020												

Williamstown Township  
 2020 Operating and Capital Budget Proposal  
 All Funds Available for Appropriation

	Governmental Funds for General Appropriation			Governmental Funds for Restricted Purposes				Proprietary Funds for Restricted Purposes				Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Barram Bridge Fund	Municipal Life Insurance	State-Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	
Proposed Capital Expenditures Detail by Dept:												
General Government			\$10,000									\$10,000
Acctg/Permitting/Land Mgmt. Computer/Pige												
Sanitary Sewer Operations												
Public Works												
Storm Water(Sunset/Chevynd/Spring)			\$200,000									\$200,000
New Dump Truck (Replace F750)			\$135,000									\$135,000
Public Works Facility work/Bridges			\$48,000									\$48,000
Asphalt Hot Mix Hauler							\$32,000					\$32,000
Front End Loader (Yr. 1 of 5)							\$19,000					\$19,000
Matching Funds Grant							\$72,000					\$72,000
2020 Resurfacing Program			\$100,000				\$175,000					\$275,000
Culture & Recreation												
Greentree Park Playsets (2)			\$40,000									\$40,000
Public Safety - Police												
New vehicles			\$92,000									\$92,000
Police Equipment			\$12,960									\$12,960
Police Building II			\$10,000									\$10,000
Total Capital Expenditures			\$647,960				\$298,000					\$945,960

Proposed Expenditures by Dept. and Category:	Governmental Funds for General Appropriation:			Governmental Funds for Restricted Purposes:				Proprietary Funds for Restricted Purposes:				Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns. Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester-Bike Sewer	Low Pressure Sewer Fund	
<b>General Government</b>												
Wages and Salaries	\$637,000								\$147,191			\$784,191
Employee Benefits	\$333,748								\$57,418			\$391,166
Materials & Services	\$641,472			\$4,000	\$3,000			\$4,000	\$63,000			\$712,472
Utilities	\$40,000				\$340							\$40,340
Vehicle Repairs & Fuel	\$6,100											\$6,100
Insurance	\$67,710								\$17,000			\$84,710
Debt Service			\$10,000									\$10,000
Capital Expenditures												
Interfund Transfers				\$1,000	\$3,340			\$4,000	\$23,609			\$28,949
<b>Total General Government</b>	<b>\$1,726,030</b>		<b>\$10,000</b>	<b>\$1,000</b>	<b>\$3,340</b>			<b>\$4,000</b>	<b>\$273,609</b>			<b>\$2,037,979</b>
<b>Sanitary Sewer Operations:</b>												
Salary and Wages									\$168,926			\$168,926
Employee Benefits									\$88,228			\$88,228
Materials & Services								\$120,350	\$1,221,016		\$63,000	\$1,404,366
Utilities								\$27,000	\$63,500			\$90,500
Vehicle Repairs & Fuel												
Insurance												
Debt Service									\$394,619			\$394,619
Capital Expenditures								\$25,000				\$25,000
Interfund Transfers												
<b>Total Sanitary Sewer Operations</b>								<b>\$172,350</b>	<b>\$1,925,289</b>		<b>\$63,000</b>	<b>\$2,160,639</b>

Millis-Township  
 2020 Operating and Capital Budget Proposal  
 All Funds Available for Appropriation

	Governmental Funds for General Appropriation			Governmental Funds for Restricted Purposes				Proprietary Funds for Restricted Purposes				Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	
Public Works:												
Salary and Wages	\$445,383											\$445,383
Employee Benefits	\$238,475											\$238,475
Materials & Services	\$160,900						\$62,000					\$222,900
Utilities	\$16,000						\$30,000					\$46,000
Vehicle Repairs & Fuel	\$69,000											\$69,000
Insurance	\$52,000											\$52,000
Debt Service												
Capital Expenditures			\$483,000									\$483,000
Interfund Transfers												
Total Public Works	\$1,001,758		\$483,000				\$410,000					\$1,894,758
Culture & Recreation:												
Salary and Wages	\$104,906											\$104,906
Employee Benefits	\$44,725											\$44,725
Materials & Services	\$245,794											\$245,794
Utilities	\$5,500											\$5,500
Vehicle Repairs & Fuel												
Insurance												
Debt Service												
Capital Expenditures			\$40,000									\$40,000
Interfund Transfers												
Total Culture & Recreation	\$397,925		\$40,000	\$552,760								\$990,685

Willistown Township  
 2020 Operating and Capital Budget Proposal  
 All Funds Available for Appropriation

	Governmental Funds for General Appropriation			Governmental Funds for Restricted Purposes				Proprietary Funds for Restricted Purposes				Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns. Reserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	
Public Safety - Police:												
Salary and Wages	\$2,910,373											\$2,910,373
Employee Benefits	\$1,825,571											\$1,825,571
Materials & Services	\$296,500											\$296,500
Utilities	\$92,500											\$92,500
Vehicle Repairs & Fuel	\$69,000											\$69,000
Insurance	\$200,000											\$200,000
Debt Service	\$86,505											\$86,505
Capital Expenditures			\$114,960									\$114,960
Interfund Transfers												
<b>Total Public Safety - Police</b>	<b>\$5,410,449</b>		<b>\$114,960</b>									<b>\$5,525,409</b>
Public Safety - Fire:												
Salary and Wages												
Employee Benefits	\$125,000											\$125,000
Materials & Services	\$378,000											\$378,000
Utilities	\$50,000											\$50,000
Vehicle Repairs & Fuel												
Insurance	\$15,500											\$15,500
Debt Service												
Capital Expenditures												
Interfund Transfers												
<b>Total Public Safety Fire</b>	<b>\$568,500</b>											<b>\$568,500</b>
Interfund Transfers	\$1,500											\$1,500
<b>Total Interfund Transfers</b>	<b>\$1,500</b>											<b>\$1,500</b>

Walpole Township  
 2020 Operating and Capital Budget Proposal  
 All Funds Available for Appropriation

	Governmental Funds for General Appropriation			Governmental Funds for Restricted Purposes					Proprietary Funds for Restricted Purposes				Total	
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Benjamin Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns. Preservo. Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund			
<b>Total Expenditures by Category</b>														
Salary and Wages	\$4,094,862	-	-	-	-	-	-	\$310,177	-	-	-	-	\$4,404,779	
Employee Benefits	\$2,567,519	-	-	-	-	-	-	\$745,848	-	-	-	-	\$2,713,165	
Materials & Services	\$1,742,666	-	-	\$1,000	\$3,000	-	\$82,000	\$124,350	\$1,284,816	-	\$63,000	-	\$3,300,832	
Utilities	\$144,000	-	-	-	\$340	-	\$30,000	\$27,000	\$56,500	-	-	-	\$257,840	
Vehicle Repairs & Fuel	\$134,100	-	-	-	-	-	-	-	-	-	-	-	\$134,100	
Insurance	\$335,210	-	-	-	-	-	-	-	\$17,000	-	-	-	\$352,210	
Debt Service	\$86,505	-	-	\$552,750	-	-	-	\$25,000	\$394,819	-	-	-	\$7,033,884	
Capital Expenditures	\$1,500	-	\$647,950	-	-	-	\$298,000	-	-	-	-	-	\$970,950	
Interfund Transfers	\$9,106,162	-	\$647,950	\$553,760	\$3,340	-	\$410,000	\$176,350	\$2,207,898	-	\$63,000	-	\$13,166,470	
<b>Total Expenditures</b>														

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
GENERAL FUND	01-301-100. R E TAX-CURRENT YRS LEVY	(345,000)
	01-301-500. REAL ESTATE TAXES-LIENED	(1,000)
	01-301-600. REAL ESTATE TAXES-INTERIM	(1,000)
	01-310-100. REAL ESTATE TRANSFER TAX	(680,000)
	01-310-200. EARNED INCOME - 7/8 OF 1%	(5,448,560)
	01-310-500. LOCAL SERVICES TX.	(273,000)
	01-321-800. CABLE TELEVISION FRANCHISE	(300,000)
	01-331-110. VEHICLE CODE VIOLATIONS	(4,000)
	01-331-120. VIOLATIONS OF ORD., STATUTE	(16,000)
	01-331-130. FALSE ALARM VIOLATIONS	(3,000)
	01-341-000. INTEREST EARNINGS	(75,000)
	01-342-200. RENTAL OF OKE HOUSE	(2,400)
	01-354-070. PARK & RECREATION SUMMER F	(8,000)
	01-354-071. PARK RENTAL	(7,000)
	01-355-010. PROPERTY TAX-PUBLIC UTILITY	(7,950)
	01-355-080. ALCOHOLIC BEVERAGE TAX	(1,050)
	01-355-130. FOREIGN FIRE INSURANCE	(125,000)
	01-355-160. REFUND AD HOC POSTRETIRES	(450)
	01-355-165. PENSION - ACT 205	(225,000)
	01-356-000. PAYMENT IN LIEU OF TAXES	(1,564)
	01-361-300. S/D & L/D FEES	(5,000)
	01-361-340. COND. USE & ZONING HEARING	(12,000)
	01-361-350. SOIL & EROSION	(34,000)
	01-361-560. SALE OF TRICENTENNIAL BOOB	(344)
	01-362-110. SALE - ACCIDENT REPORTS	(2,000)
	01-362-120. ALARM INSTALL/APD LICENSE	(4,500)
	01-362-130. FEE - FINGER PRINTING	(350)
	01-362-150. SOLICITORS LICENSE	(1,000)
	01-362-160. PUBLIC EXPOSITION PERMITS	(1,600)
	01-362-410. BUILDING PERMITS	(405,000)
	01-362-412. ZONING PERMITS	(15,000)
	01-362-413. DUMPSTER PERMIT	(200)
	01-362-450. USE AND OCCUPANCY PERMIT	(100)
	01-362-490. BUILDERS REGISTRATION	(2,500)
	01-363-510. SNOW REMOVAL- PENNDOT	(25,000)
	01-381-000. HEALTH INSURANCE	(354)
	01-382-001. REFUND- HAZARDOUS WASTE	(2,000)
	01-382-021. RESTITUTION	(18,240)

PUND

GENERAL LEDGER ACCOUNT

2020  
Total  
Next  
Year  
Budget

01-382-030. RECYCLING	(15,000)
01-389-000. P-CARD REBATE	(1,000)
01-392-091. TRANSFER FROM WELLS FARGO	(84,000)
TOTAL REVENUE	<u>(9,106,162)</u>

01-400-156. HOSPITALIZATION	17,333
01-400-318. CODIFICATION	7,000
TOTAL GOVERNING BODY	<u>24,333 *</u>

01-401-003. 457 CONTRIBUTION	11,143
01-401-121. WAGES	307,906
01-401-154. RETIREE HEALTHCARE	13,000
01-401-156. HOSPITALIZATION	54,446
01-401-158. LIFE/DISABILITY INSURANCE	6,000
01-401-159. REIMBURSEMENT HEALTH	5,000
01-401-160. MEDICARE	4,464
01-401-181. SOCIAL SECURITY	19,091
01-401-162. U/E COMPENSATION/ADM	304
01-401-197. 6% MUN. PENSION CONTRIBUT	15,714
01-401-200. MISCELLANEOUS BENEFITS	20,000
01-401-210. OFFICE SUPPLIES	10,000
01-401-212. POSTAGE	3,400
01-401-230. UTILITIES	15,000
01-401-231. GAS/MILEAGE	5,000
01-401-240. GENERAL EXPENSE	10,000
01-401-311. ACCOUNTING & AUDITING	37,500
01-401-312. CONSULTANT	17,000
01-401-313. ENGINEERING	30,000
01-401-314. LEGAL SERVICES	25,000
01-401-321. TELEPHONE MONTHLY CHARGE	25,000
01-401-340. SUBSCRIPTIONS	3,000
01-401-341. ADVERTISING	5,000
01-401-343. TOWNSHIP NEWSLETTER	16,800
01-401-352. INSURANCES	57,710
01-401-384. RENTL-COPIER, SCALE, METER	4,200
01-401-420. DUES-CONFERENCES-TRAININ	28,100
01-401-452. BUILDING CLEANING	10,000
01-401-455. BLD. & GROUNDS MAINT	32,000
TOTAL EXECUTIVE	<u>802,777 *</u>

FUND

GENERAL LEDGER ACCOUNT

2020  
Total  
Next  
Year  
Budget

01-403-116. COMMISSION - EARNED INCOM	81,000
01-403-117. COMMISSION - LST	3,772
01-403-119. TAX COLLECTION	8,500
01-403-313. POSTAGE	9,000
TOTAL TAX COLLECTION	<u>102,272 *</u>
01-407-243. IT - COMPUTERS	6,000
01-407-311. ACCOUNTING AND AUDITING	26,000
01-407-312. CONSULTANT	28,000
01-407-340. SUBSCRIPTIONS	6,500
01-407-384. EQUIPMENT RENTAL	1,000
TOTAL IT & NETWORKING SERVICES	<u>67,500 *</u>
01-410-003. 467 MATCH	102,000
01-410-004. PHYSICALS	1,000
01-410-120. WAGES - ADMINISTRATION	609,889
01-410-122. WAGES - BIKE PATROL	2,000
01-410-123. WAGES - CRASH FOLLOW UP	1,000
01-410-124. WAGES - PUBLIC RELATIONS(D	10,000
01-410-125. WAGES - MEETINGS	5,000
01-410-126. WAGES - SCHOOL	35,000
01-410-127. WAGES - SCHOOL - AGT 180	30,000
01-410-128. WAGES - SHIFT COVERAGE	35,000
01-410-130. WAGES - OFFICERS	1,870,228
01-410-131. LONGEVITY	96,256
01-410-132. WAGES - HOLIDAY	49,200
01-410-133. WAGES - SCHOOL - OVERTIME	1,000
01-410-134. WAGES - COURT	14,000
01-410-135. WAGES - CRIMINAL OVERTIME	17,000
01-410-136. WAGES - SICK COVERAGE	40,000
01-410-137. WAGES - TRAFFIC	5,000
01-410-138. WAGES - UNUSED VACATION	55,000
01-410-145. COMMUNITY RELATIONS	8,000
01-410-146. WAGES - OTHER OVERTIME	14,000
01-410-149. EMERGENCY RESPONSE TEAM	5,000
01-410-150. WAGES - OIC	7,800
01-410-154. RETIREE HEALTHCARE	84,000
01-410-155. HEALTH INSURANCE INCENTIV	8,000
01-410-156. HOSPITALIZATION	499,427
01-410-158. LIFE/DISABILITY INSURANCE	30,000

## FUND

## GENERAL LEDGER ACCOUNT

2020  
Total  
Next  
Year  
Budget

01-410-159. PRESCRIPTION PROGRAM	15,000
01-410-160. MEDICARE	40,112
01-410-161. SOCIAL SECURITY	8,496
01-410-162. U/E COMPENSATION	2,000
01-410-197. MUNI PENSION 6%	7,000
01-410-210. OFFICE SUPPLIES	12,000
01-410-214. HIRING	15,000
01-410-230. UTILITIES	22,000
01-410-231. GASOLINE - POLICE CARS	32,000
01-410-237. EMERGENCY RESP. TEAM EXPI	10,000
01-410-238. CLOTHING AND UNIFORMS	32,000
01-410-239. AMMUNITION AND TARGETS	15,000
01-410-240. GENERAL EXPENSES	7,500
01-410-242. PROTECTION PERSONS /PROPI	20,000
01-410-243. IT - Computers	15,000
01-410-270. TRAFFIC SAFETY	15,000
01-410-301. S.P.O.A. SERVICES	5,500
01-410-312. CONSULTANT	40,000
01-410-314. LEGAL SERVICES	12,000
01-410-317. EXPENSE ACCOUNT	5,000
01-410-320. COMMUNICATION	34,000
01-410-321. TELEPHONE MONTHLY CHARGE	10,500
01-410-329. LIVESCAN	9,000
01-410-340. SUBSCRIPTIONS	7,500
01-410-352. INSURANCES	200,000
01-410-374. REPAIRS - CARS/EQUIP-VENDO	27,000
01-410-384. RENTALS - COPIER, CAMERA	9,000
01-410-420. DUES-CONFERENCES-TRAININ	20,000
01-410-421. HIGHER EDUCATION	15,000
01-410-452. BUILDING CLEANING	15,000
01-410-456. BUILDING MAINTENANCE	30,000
01-470-101. BOND DEBT REDUCTION - POLIC	86,505
01-492-091. POLICE RETIREMENT HOSP.	132,023
01-492-600. TRANSFER - POLICE PENSION	849,513
TOTAL POLICE	<u>5,410,449</u>

## FUND

## GENERAL LEDGER ACCOUNT

	2020 Total Next Year Budget
01-411-163. FIREMENS RELIEF ASSOC.	125,000
01-411-312. CONSULTANT	25,000
01-411-352. LIAB. CASUALTY/INS. VOL FIRE	15,500
01-411-366. WATER - FIRE HYDRANTS	60,000
01-411-540. VOLUNTEER FIRE	383,000
TOTAL FIRE	<u>568,500</u>
01-413-003. 457 MATCH	8,861
01-413-121. WAGES	221,527
01-413-156. HOSPITALIZATION	73,842
01-413-158. LIFE/DISABILITY INSURANCE	2,000
01-413-159. PRESCRIPTION REIMBURSEME	5,500
01-413-160. MEDICARE	3,212
01-413-161. SOCIAL SECURITY	13,734
01-413-162. U/E COMPENSATION	212
01-413-197. MUNI PENSION 6%	19,293
01-413-232. CAR 51	600
01-413-240. GENERAL EXPENSES	250
01-413-260. SMALL TOOLS & MINOR EQUIP.	5,000
01-413-312. CONSULTANT	10,000
01-413-340. SUBSCRIPTIONS	1,000
01-413-411. STATE FEE	4,500
01-413-420. DUES-CONFERENCES-TRAININ	4,000
TOTAL CODE ENFORCEMENT	<u>367,531</u>
01-414-003. 457 MATCH	2,828
01-414-120. WAGES	107,567
01-414-156. HOSPITALIZATION	21,256
01-414-158. LIFE/DISABILITY INSURANCE	1,400
01-414-159. PRESCRIPTION REIMBURSEME	1,500
01-414-160. MEDICARE	1,561
01-414-161. SOCIAL SECURITY	6,659
01-414-162. U/E COMPENSATION	144
01-414-197. MUNI PENSION 6%	4,242
01-414-240. GENERAL EXPENSES	500
01-414-251. REPAIRS - CAR 62 - ZONING	500
01-414-305. HISTORIC PRESERVATIONS	500
01-414-306. COMPREH. PLAN REVIEW	25,000
01-414-312. CONSULTANT	35,000
01-414-313. ENGINEERING & ARCHITECT	55,000

FUND

GENERAL LEDGER ACCOUNT

2020  
Total  
Next  
Year  
Budget

01-414-314. LEGAL SERVICES	40,000
01-414-316. COURT REPORTER	5,000
01-414-317. ZONING HEARING & COND. US	1,200
01-414-340. SUBSCRIPTIONS	500
01-414-341. ADVERTISING	5,250
01-414-420. DUES-CONFERENCES-TRAININ	8,500
01-414-421. HIGHER EDUCATION	6,000
TOTAL PLANNING & ZONING	<u>925,117 *</u>
01-416-240. General Expenses	5,000
TOTAL EMERGENCY MANAGEMENT	<u>5,000 *</u>
01-426-341. RECYCLING CHARGES	31,500
TOTAL RECYCLING	<u>31,500 *</u>
01-430-003. 457 MATCH	17,815
01-430-120. WAGES-PUB. WKS DIR.	396,474
01-430-156. HOSPITALIZATION	149,827
01-430-158. LIFE/DISABILITY INSURANCE	5,500
01-430-159. PRESCRIPTION REIMBURSEME	4,000
01-430-160. MEDICARE	6,459
01-430-161. SOCIAL SECURITY	27,613
01-430-162. U/E COMPENSATION	538
01-430-180. OVERTIME	48,909
01-430-197. MUNI PENSION 6%	26,723
01-430-220. CLOTHING & SHOES & MEDICAL	12,000
01-430-229. FOOD	500
01-430-230. HEATING FUEL	3,500
01-430-231. GASOLINE ONLY--CAR 53	7,000
01-430-240. GENERAL EXPENSES	7,500
01-430-250. REPAIRS & MAINTENANCE--CA	1,500
01-430-260. SMALL TOOLS & MINOR EQUIP.	9,500
01-430-352. INSURANCES	52,000
01-430-361. ELECTRIC SERVICE	6,500
01-430-368. UNDERGROUND TANKS	4,500
01-430-374. REPAIRS - VENDOR	1,000
01-430-420. TRAINING-DUES-CONFERENCE	2,500
01-430-454. GROUND MAINTENANCE	3,000
01-430-455. BUILDING MAINTENANCE	1,000
01-432-229. FOOD	1,400
01-432-250. REPAIR AND MAINT. TRUCKS	17,500

FUND

GENERAL LEDGER ACCOUNT

2020  
Total  
Next  
Year  
Budget

01-432-450. REPAIRS/MAINT. - CONTRACT	4,000
01-433-220. OPERATING SUPPLIES	17,500
01-433-372. TRAFFIC SIGNAL	6,000
01-433-450. REPAIRS/MAINT. - CONTRACT	6,000
01-437-250. SUPPLIES - TWP VEHICLES	23,000
01-437-374. REPAIRS - VENDOR	8,000
01-438-231. FUEL - TRUCKS	20,000
01-438-245. ASPHALT, OIL, AGGREGATES	22,000
01-438-246. MAG. CHLORIDE, MISC. ITEMS	5,000
01-438-247. STORMWATER INLETS, LIDS, PIPE	12,500
01-438-313. ENGINEERING SERVICES	8,000
01-438-384. RENT OF MACHINERY & EQUIP	2,500
01-438-450. REPAIRS/MAINT - CONTRACT	25,000
01-438-482. TREE REMOVAL	20,000
01-439-384. RENT MACHINERY & EQUIP.	7,500
TOTAL PUBLIC WORKS	<u>1,001,758</u>

DRAFT

FUND

GENERAL LEDGER ACCOUNT

2020  
Total  
Next  
Year  
Budget

01-454-000. EVENTS-OUTSIDE VENDORS	14,500
01-454-003. 457 Match	4,076
01-454-148. WAGES	101,906
01-454-156. HOSPITALIZATION	25,243
01-454-158. LIFE/DISABILITY	1,000
01-454-159. PRESCRIPTION REIMBURSEMENT	400
01-454-160. MEDICARE	1,478
01-454-161. FICA	6,318
01-454-162. PAUC	96
01-454-197. MUNI PENSION 6%	6,114
01-454-210. OFFICE SUPPLIES	450
01-454-220. SUPPLIES	8,500
01-454-230. UTILITIES	2,200
01-454-247. SIGNAGE	8,500
01-454-312. CONSULTANT	5,000
01-454-314. LEGAL SERVICES	1,000
01-454-321. COMMUNICATIONS	1,750
01-454-340. ADV. PRINT, TRAINING, DUES, S	8,500
01-454-361. ELECTRIC SERVICE	3,000
01-454-366. PUBLIC UTILITY SERVICE - WAT	300
01-454-374. RPRS. & MAINT. SERV. & CONT.	4,500
01-454-420. DUES-CONFERENCES-TRAINING	2,600
01-454-454. GROUNDS MAINT.	94,000
01-454-455. BUILDING MAINTENANCE	9,500
01-456-520. MALVERN & PAOLI LIBRARIES	86,994
TOTAL CULTURE & RECREATION	397,925
01-492-017. TRANSFER TO BARTRAM'S BRID	1,500
TOTAL INTERFUND TRANSFERS	1,500
TOTAL EXPENDITURES	9,106,162
NET ACTIVITY FOR THE YEAR	0

\* Department within General Government subtotal

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
OPEN SPACE FUND	04-310-201. OPEN SPACE TAX 1/8 OF 1%	(725,000)
	04-341-000. INTEREST	(35,000)
	TOTAL REVENUE	<u>(760,000)</u>
	04-400-532. BOND ADM IN EXPENSE 3	1,000
	TOTAL GENERAL GOVERNMENT	<u>1,000</u>
	04-470-103. BOND DEBT REDUCTION 3	350,000
	04-472-103. BOND DEBT INTEREST 3	202,760
	TOTAL CULTURE AND RECREATION	<u>552,760</u>
	TOTAL EXPENDITURES	<u>553,760</u>
	NET ACTIVITY FOR THE YEAR	<u>(206,240)</u>
LOW PRESSURE FUND	07-341-000. INTEREST	(2,000)
	07-364-120. SEWER USE CHARGE	(146,608)
	TOTAL REVENUE	<u>(148,608)</u>
	07-400-220. OPERATING SUPPLIES	2,000
	07-400-240. GENERAL EXPENSES	2,000
	TOTAL GENERAL GOVERNMENT	<u>4,000</u>
	07-429-220. OPERATING SUPPLIES	4,000
	07-429-240. GENERAL EXPENSES	850
	07-429-260. SMALL TOOLS & MINOR EQUIP.	500
	07-429-321. TELEPHONE CHARGES/ALARM	2,500
	07-429-361. ELECTRICITY	22,000
	07-429-366. WATER	2,500
	07-429-370. REPAIRS & MAINTENANCE	37,500
	07-429-454. GROUNDS MAINTENANCE	10,000
	07-429-456. PLANT OPERATOR	60,000
	07-429-457. LABORATORY WELLS	7,500
	07-429-840. CAP, PUR.- REPLACEMENT	25,000
	TOTAL SANITARY SEWER OPERATIONS	<u>172,350</u>
	TOTAL EXPENDITURES	<u>170,350</u>
	NET ACTIVITY FOR THE YEAR	<u>27,742</u>

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
VALLEY FORGE SEWER FUND	08-341-000. INTEREST EARNINGS	(30,000)
	08-364-120. SEWER USE CHARGE	(1,852,311)
	08-364-900. FEE - SEWER CERTIFICATION	(6,500)
	TOTAL REVENUE	<u>(1,888,811)</u>
	08-400-003. DEFERRED COMPENSATION	5,648
	08-400-140. WAGES-SEWER/CLERICAL	141,191
	08-400-156. HOSPITALIZATION	31,891
	08-400-158. LIFE INSURANCE	1,000
	08-400-160. MEDICARE	2,047
	08-400-161. FICA (SOCIAL SECURITY)	8,754
	08-400-162. U/E COMPENSATION ADMIN	108
	08-400-197. MUNI PENSION	8,470
	08-400-210. OFFICE SUPPLIES	7,000
	08-400-212. POSTAGE	500
	08-400-240. GENERAL EXPENSES	23,000
	08-400-311. ACCOUNTING/AUDITING	5,000
	08-400-314. LEGAL SERVICES	27,500
	08-400-352. INSURANCES	17,000
	TOTAL GENERAL GOVERNMENT	<u>278,609</u>
	08-400-386. VALLEYFORGE SEWER AUTH.	675,836
	08-400-387. TREDYFFRIN TRUNK LINE	427,480
	08-400-388. E. GOSHEN MUNICIPAL AUTH.	12,000
	08-400-532. BOND ADMIN, EXP, USBANK	539
	08-429-003. 457 MATCH	6,757
	08-429-140. WAGES-MAINTENANCE CREW	149,906
	08-429-156. HOSPITALIZATION	56,215
	08-429-158. LIFE INSURANCE	2,000
	08-429-160. MEDICARE	2,449
	08-429-161. SOCIAL SECURITY	10,473
	08-429-162. U/E COMPENSATION	198
	08-429-180. OVERTIME	19,020
	08-429-197. MUNI PENSION 6%	10,136
	08-429-220. OPERATING SUPPLIES	11,000
	08-429-230. FUEL - EMERG. GENERATORS	1,000
	08-429-240. GENERAL EXPENSES	7,500
	08-429-260. SMALL TOOLS / MINOR EQUIP.	2,000
	08-429-300. PENNSYLVANIA ONE CALL	1,200

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
	08-429-313: ENGINEERING SERVICES	30,000
	08-429-321, TELEPHONE CHARGES/ALARM	4,000
	08-429-361, ELECTRICITY	50,000
	08-429-366: WATER	1,500
	08-429-370, REPAIRS & MAINTENANCE	50,000
	08-429-454, GROUNDS MAINTENANCE	3,000
	08-429-461, TRAINING	1,000
	08-472-103, BOND INTERST -USBANK	394,080
	TOTAL SANITARY SEWER OPERATIONS	1,929,289
	TOTAL EXPENDITURES	2,207,898
	NET ACTIVITY FOR THE YEAR	319,087
W. CHESTER PIKE SEWER FUND	10-341-000, INTEREST EARNINGS	(1,000)
	TOTAL REVENUE	(1,000)
	NET ACTIVITY FOR THE YEAR	(1,000)
LOW PRESSURE FUND	11-341-000, INTEREST EARNINGS	(1,000)
	11-364-121, LOW PRESSURE MAINTENANCE	(65,800)
	TOTAL REVENUE	(66,800)
	11-429-450, REPAIRS/MAINT. - CONTRACTS	63,000
	TOTAL SANITARY SEWER OPERATIONS	63,000
	TOTAL EXPENDITURES	63,000
	NET ACTIVITY FOR THE YEAR	(3,800)
BARTRAM BRIDGE FUND	17-341-000, INTEREST EARNINGS	(150)
	17-380-030, DONATIONS - NEWTOWN TWP.	(1,500)
	17-392-001, TRANSFER FROM GENERAL FUND	(1,500)
	TOTAL REVENUE	(3,150)
	17-400-316, MISCELLANEOUS SERVICES	3,000
	17-454-361, ELECTRIC	340
	TOTAL GENERAL GOVERNMENT	3,340
	TOTAL EXPENDITURES	3,340
	NET ACTIVITY FOR THE YEAR	190

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
CAPITAL FUND	30-341-000. INTEREST EARNINGS	(10,000)
	TOTAL REVENUE	<u>(10,000)</u>
	30-407-670. IT-SOFTWARE	10,000
	TOTAL GENERAL GOVERNMENT	<u>10,000</u>
	30-410-341. RD CAPITAL - VEHICLES	92,000
	30-410-605. PD CAPITAL - GENERAL	12,960
	30-410-606. CAPITAL - IT	10,000
	TOTAL PUBLIC SAFETY - POLICE	<u>114,960</u>
	30-430-840. PW BUILDING	483,000
	TOTAL PUBLIC WORKS	<u>483,000</u>
30-454-840. PARKS	40,000	
TOTAL CULTURE & RECREATION	<u>40,000</u>	
TOTAL EXPENDITURES	<u>647,960</u>	
NET ACTIVITY FOR THE YEAR	<u>637,960</u>	
OPERATING RESERVE FUND	32-341-000. INTEREST	(18,000)
	TOTAL REVENUE	<u>(18,000)</u>
	NET ACTIVITY FOR THE YEAR	<u>(18,000)</u>
STATE LIQUID FUELS FUND	35-341-000. INTEREST EARNINGS	(5,000)
	35-355-050. STATE MOTOR LICENSE GRANT	(365,838)
	35-355-150. STATE TURNBACK FUNDS	(20,860)
	TOTAL REVENUE	<u>(391,198)</u>
	35-432-220. SALT	80,000
	35-432-221. ANTI-SKID	2,000
	35-433-361. PUBLIC UTILITY TRAFFIC LIGHT	8,000
	35-433-840. CAPITAL PURCHASE REPLACE	72,000
	35-434-361. PUBLIC UTILITY STREET LIGHTS	22,000
	35-438-450. REPAIRS/MAINT-CONTRACT	175,000
	35-438-740. CAPITAL PURCHASE NEW	51,000
	TOTAL PUBLIC WORKS	<u>410,000</u>
	TOTAL EXPENDITURES	<u>410,000</u>
NET ACTIVITY FOR THE YEAR	<u>18,802</u>	

FUND	GENERAL LEDGER ACCOUNT	2020 Total Next Year Budget
MUNICIPAL LIFE INSURANCE FUND	66-841-000. INTEREST EARNINGS	(2,000)
	TOTAL REVENUE	(2,000)
	NET ACTIVITY FOR THE YEAR	(2,000)
	TOTAL REVENUE	(12,395,729)
	TOTAL EXPENDITURES	13,168,470
	NET ACTIVITY FOR THE YEAR	772,741

DRAFT

Willistown Township  
2021 Operating and Capital Budget Proposal  
All Funds Available for Appropriation

	Governmental Funds for General			Governmental Funds for Restricted Purposes				Proprietary Funds for Restricted Purposes				Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	
<b>Projected Balance at December 31, 2020</b>	\$5,800,000	\$1,868,000	\$1,204,700	\$4,700,000	\$11,500	\$245,000	\$645,000	\$125,000	\$3,500,000	\$333,000	\$130,000	\$18,562,200
<b>Revenue:</b>												
Real Estate Taxes	\$362,000	-	-	-	-	-	-	-	-	-	-	\$362,000
Local Service Tax	\$275,000	-	-	-	-	-	-	-	-	-	-	\$275,000
Real Estate Transfer Tax	\$660,000	-	-	-	-	-	-	-	-	-	-	\$660,000
Earned Income Tax	\$6,410,000	-	-	\$725,000	-	-	-	-	-	-	-	\$7,135,000
Fines, Forfeitures and Other Costs	\$21,200	-	-	-	-	-	-	-	-	-	-	\$21,200
Cable Franchise Fees	\$300,000	-	-	-	-	-	-	\$400	\$7,800	\$720	\$360	\$48,600
Interest Dividends and Rents	\$20,000	\$4,080	\$2,400	\$11,000	\$40	\$600	\$1,200	-	-	-	-	\$707,711
Intergovernmental Revenues	\$349,450	-	-	-	\$1,500	-	\$356,761	-	-	-	-	\$15,000
Park & Recreation Fees	\$15,000	-	-	-	-	-	-	\$146,608	\$1,939,500	-	-	\$2,680,871
Charges for Services	\$532,363	-	-	-	-	-	-	-	-	-	-	\$42,804
Miscellaneous	\$42,804	-	-	-	\$1,500	-	-	-	-	-	-	\$108,500
Interfund Transfers	\$107,000	\$4,080	\$2,400	\$736,000	\$3,040	\$600	\$357,961	\$147,008	\$1,947,300	\$720	\$62,760	\$12,356,686
<b>Total Revenue</b>	\$9,094,817	\$4,080	\$2,400	\$736,000	\$3,040	\$600	\$357,961	\$147,008	\$1,947,300	\$720	\$62,760	\$12,356,686
<b>Total Expenditures by Department:</b>												
General Government	\$1,715,321	-	\$125,000	\$1,000	\$1,840	-	-	\$4,000	\$198,099	-	-	\$2,045,260
Sanitary Sewer Operations	-	-	-	-	-	-	-	\$137,300	\$1,960,863	-	\$62,760	\$2,160,923
Public Works	\$1,050,057	-	\$640,000	\$555,760	-	-	\$470,000	-	-	-	-	\$2,160,057
Culture & Recreation	393,413	-	\$40,000	-	-	-	-	-	-	-	-	\$989,173
Public Safety - Police	\$5,355,436	-	\$202,100	-	-	-	-	-	-	-	-	\$5,557,536
Public Safety - Fire	\$579,090	-	-	-	-	-	-	-	-	-	-	\$579,090
Interfund Transfers	\$1,500	-	\$1,007,100	\$556,760	\$1,840	-	\$470,000	\$141,300	\$2,158,962	-	\$62,760	\$13,493,539
<b>Total Expenditures</b>	\$9,094,817	\$4,080	\$1,004,700	\$179,240	\$1,200	\$600	\$112,039	\$5,708	\$2,111,662	\$720	-	(\$1,136,853)
<b>Net Activity For Year</b>	-	-	-	\$4,879,240	\$12,700	\$245,600	\$532,961	\$130,708	\$3,288,338	\$333,720	\$130,000	\$17,425,347
<b>Projected Cash Balance at December 31, 2021</b>	\$5,800,000	\$1,872,080	\$200,000	\$4,879,240	\$12,700	\$245,600	\$532,961	\$130,708	\$3,288,338	\$333,720	\$130,000	\$17,425,347

Willistown Township  
 2021 Operating and Capital Budget Proposal  
 All Funds Available for Appropriation

	Governmental Funds for General Appropriation			Governmental Funds for Restricted Purposes					Proprietary Funds for Restricted Purposes				Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund		
<b>Proposed Capital Expenditures Detail by Dept.:</b>													
<b>General Government</b>													
Twp Bldg. Windows/Porch Repair/Veh., Replace.	-	-	\$125,000										\$125,000
<b>Public Works</b>													
Storm Water (Sunset/Chetwynd/Spring/Jacqueline)	-	-	\$525,000										\$525,000
Public Works Facility work/Bridges	-	-	\$15,000										\$15,000
Front End Loader (yr. 2 of 5)							\$19,000						\$19,000
Vehicle Replacement							\$90,000						\$90,000
2021 Resurfacing Program							\$250,000						\$250,000
<b>Culture &amp; Recreation</b>													
Okehooking Parking/Fencing	-	-	\$40,000										\$40,000
<b>Public Safety - Police</b>													
Vehicle Replacement													\$97,100
Police Equipment													\$85,000
Police Building IT													\$20,000
<b>Total Capital Expenditures</b>			<b>\$1,007,100</b>				<b>\$359,000</b>						<b>\$1,366,100</b>

Willistown Township  
 2021 Operating and Capital Budget Proposal  
 All Funds Available for Appropriation

	Governmental Funds for General Appropriation			Governmental Funds for Restricted Purposes				Proprietary Funds for Restricted Purposes				Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund	
<b>Proposed Expenditures by Dept. and Category:</b>												
<b>General Government:</b>												
Wages and Salaries	\$726,264	-	-	-	-	-	-	-	\$61,976	-	-	\$788,240
Employee Benefits	\$347,397	-	-	-	-	-	-	-	\$13,623	-	-	\$361,020
Materials & Services	\$532,850	-	-	\$1,000	\$1,500	-	-	\$4,000	\$104,000	-	-	\$643,350
Utilities	\$36,000	-	-	-	\$340	-	-	-	-	-	-	\$36,340
Vehicle Repairs & Fuel	\$5,100	-	-	-	-	-	-	-	\$18,500	-	-	\$5,100
Insurance	\$67,710	-	-	-	-	-	-	-	-	-	-	\$67,710
Debt Service	-	-	\$125,000	-	-	-	-	-	-	-	-	\$125,000
Capital Expenditures	-	-	-	-	-	-	-	-	-	-	-	-
Interfund Transfers	-	-	-	\$1,000	\$1,840	-	-	\$4,000	\$198,099	-	-	\$2,045,260
<b>Total General Government</b>	<b>\$1,715,321</b>		<b>\$125,000</b>	<b>\$1,000</b>	<b>\$1,840</b>			<b>\$4,000</b>	<b>\$198,099</b>			<b>\$2,045,260</b>
<b>Sanitary Sewer Operations:</b>												
Salary and Wages	-	-	-	-	-	-	-	-	\$183,007	-	-	\$183,007
Employee Benefits	-	-	-	-	-	-	-	-	\$98,352	-	-	\$98,352
Materials & Services	-	-	-	-	-	-	-	\$117,550	\$1,226,766	-	\$62,760	\$1,407,076
Utilities	-	-	-	-	-	-	-	\$19,750	\$57,750	-	-	\$77,500
Vehicle Repairs & Fuel	-	-	-	-	-	-	-	-	\$1,000	-	-	\$1,000
Insurance	-	-	-	-	-	-	-	-	\$393,988	-	-	\$393,988
Debt Service	-	-	-	-	-	-	-	-	-	-	-	-
Capital Expenditures	-	-	-	-	-	-	-	-	-	-	-	-
Interfund Transfers	-	-	-	-	-	-	-	\$137,300	\$1,960,863	-	\$62,760	\$2,160,923
<b>Total Sanitary Sewer Operations</b>								<b>\$137,300</b>	<b>\$1,960,863</b>		<b>\$62,760</b>	<b>\$2,160,923</b>

Willistown Township  
2021 Operating and Capital Budget Proposal  
All Funds Available for Appropriation

	Governmental Funds for General Appropriation			Governmental Funds for Restricted Purposes					Proprietary Funds for Restricted Purposes				Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund		
<b>Public Works:</b>													
Salary and Wages	\$470,593	-	-	-	-	-	-	-	-	-	-	-	\$470,593
Employee Benefits	\$257,264	-	-	-	-	-	-	-	-	-	-	-	\$257,264
Materials & Services	\$186,200	-	-	-	-	-	\$80,000	-	-	-	-	-	\$266,200
Utilities	\$16,000	-	-	-	-	-	\$31,000	-	-	-	-	-	\$47,000
Vehicle Repairs & Fuel	\$68,000	-	-	-	-	-	-	-	-	-	-	-	\$68,000
Insurance	\$52,000	-	-	-	-	-	-	-	-	-	-	-	\$52,000
Debt Service	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Expenditures	-	-	\$640,000	-	-	-	\$359,000	-	-	-	-	-	\$999,000
Interfund Transfers	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Public Works</b>	<b>\$1,050,057</b>	-	<b>\$640,000</b>	-	-	-	<b>\$470,000</b>	-	-	-	-	-	<b>\$2,160,057</b>
<b>Culture &amp; Recreation:</b>													
Salary and Wages	\$95,451	-	-	-	-	-	-	-	-	-	-	-	\$95,451
Employee Benefits	\$41,808	-	-	-	-	-	-	-	-	-	-	-	\$41,808
Materials & Services	\$249,154	-	-	-	-	-	-	-	-	-	-	-	\$249,154
Utilities	\$7,000	-	-	-	-	-	-	-	-	-	-	-	\$7,000
Vehicle Repairs & Fuel	-	-	-	-	-	-	-	-	-	-	-	-	-
Insurance	-	-	-	-	-	-	-	-	-	-	-	-	-
Debt Service	-	-	-	\$555,760	-	-	-	-	-	-	-	-	\$555,760
Capital Expenditures	-	-	\$40,000	-	-	-	-	-	-	-	-	-	\$40,000
Interfund Transfers	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Culture &amp; Recreation</b>	<b>\$393,413</b>	-	<b>\$40,000</b>	<b>\$555,760</b>	-	-	-	-	-	-	-	-	<b>\$989,173</b>

Willistown Township  
 2021 Operating and Capital Budget Proposal  
 All Funds Available for Appropriation

	Governmental Funds for General			Governmental Funds for Restricted Purposes					Proprietary Funds for Restricted Purposes				Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund		
<b>Public Safety - Police:</b>													
Salary and Wages	\$2,823,767	-	-	-	-	-	-	-	-	-	-	-	\$2,823,767
Employee Benefits	\$1,832,533	-	-	-	-	-	-	-	-	-	-	-	\$1,832,533
Materials & Services	\$293,000	-	-	-	-	-	-	-	-	-	-	-	\$293,000
Utilities	\$49,000	-	-	-	-	-	-	-	-	-	-	-	\$49,000
Vehicle Repairs & Fuel	\$57,000	-	-	-	-	-	-	-	-	-	-	-	\$57,000
Insurance	\$213,000	-	-	-	-	-	-	-	-	-	-	-	\$213,000
Debt Service	\$87,136	-	\$202,100	-	-	-	-	-	-	-	-	-	\$87,136
Capital Expenditures	-	-	-	-	-	-	-	-	-	-	-	-	\$202,100
Interfund Transfers	-	-	\$202,100	-	-	-	-	-	-	-	-	-	\$202,100
<b>Total Public Safety - Police</b>	<b>\$5,355,436</b>	<b>-</b>	<b>\$202,100</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$5,557,536</b>
<b>Public Safety - Fire:</b>													
Salary and Wages	-	-	-	-	-	-	-	-	-	-	-	-	-
Employee Benefits	\$125,000	-	-	-	-	-	-	-	-	-	-	-	\$125,000
Materials & Services	\$388,590	-	-	-	-	-	-	-	-	-	-	-	\$388,590
Utilities	\$50,000	-	-	-	-	-	-	-	-	-	-	-	\$50,000
Vehicle Repairs & Fuel	-	-	-	-	-	-	-	-	-	-	-	-	-
Insurance	\$15,500	-	-	-	-	-	-	-	-	-	-	-	\$15,500
Debt Service	-	-	-	-	-	-	-	-	-	-	-	-	-
Capital Expenditures	-	-	-	-	-	-	-	-	-	-	-	-	-
Interfund Transfers	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Total Public Safety Fire</b>	<b>\$579,090</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$579,090</b>
Interfund Transfers	\$1,500	-	-	-	-	-	-	-	-	-	-	-	\$1,500
<b>Total Interfund Transfers</b>	<b>\$1,500</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>-</b>	<b>\$1,500</b>

Willistown Township  
 2021 Operating and Capital Budget Proposal  
 All Funds Available for Appropriation

	Governmental Funds for General Appropriation				Governmental Funds for Restricted Purposes				Proprietary Funds for Restricted Purposes					Total
	General Fund	Operating Reserve Fund	Capital Reserve Fund	Open Space Fund	Bartram Bridge Fund	Municipal Life Insurance	State Liquid Fuels Fund	Penns Preserve Sewer Fund	Valley Forge Sewer Fund	West Chester Pike Sewer	Low Pressure Sewer Fund			
<b>Total Expenditures by Category</b>														
Salary and Wages	\$4,116,075	-	-	-	-	-	-	-	\$244,983	-	-	-	-	\$4,361,058
Employee Benefits	\$2,604,002	-	-	-	-	-	-	-	\$111,975	-	-	-	-	\$2,715,977
Materials & Services	\$1,649,794	-	-	\$1,000	\$1,500	-	\$80,000	\$121,550	\$1,330,766	-	\$62,760	-	\$3,247,370	
Utilities	\$158,000	-	-	-	\$340	-	\$31,000	\$19,750	\$57,750	-	-	-	-	\$266,840
Vehicle Repairs & Fuel	\$130,100	-	-	-	-	-	-	-	\$1,000	-	-	-	-	\$131,100
Insurance	\$348,210	-	-	-	-	-	-	-	\$18,500	-	-	-	-	\$366,710
Debt Service	\$87,136	-	-	\$555,760	-	-	-	-	\$393,988	-	-	-	-	\$1,036,884
Capital Expenditures	-	-	\$1,007,100	-	-	-	\$359,000	-	-	-	-	-	-	\$1,366,100
Interfund Transfers	\$1,500	-	-	-	-	-	-	-	-	-	-	-	-	\$1,500
<b>Total Expenditures</b>	<b>\$9,094,817</b>	<b>-</b>	<b>\$1,007,100</b>	<b>\$555,760</b>	<b>\$1,840</b>	<b>-</b>	<b>\$470,000</b>	<b>\$141,300</b>	<b>\$2,158,962</b>	<b>-</b>	<b>\$62,760</b>	<b>-</b>	<b>\$13,493,539</b>	

Fund	General Ledger Account	2021 Budget
GENERAL FUND	01-301-100. R E TAX-CURRENT YRS LEVY	(355,000)
	01-301-200. RE TAXES--PRIOR YEAR	(3,000)
	01-301-500. REAL ESTATE TAXES--LIENED	(3,000)
	01-301-600. REAL ESTATE TAXES--INTERIM	(1,000)
	01-310-100. REAL ESTATE TRANSFER TAX	(660,000)
	01-310-200. EARNED INCOME - 7/8 OF 1%	(6,410,000)
	01-310-500. LOCAL SERVICES TX	(275,000)
	01-321-800. CABLE TELEVISION FRANCHISE	(300,000)
	01-331-110. VEHICLE CODE VIOLATIONS	(4,000)
	01-331-120. VIOLATIONS OF ORD., STATUTES	(15,000)
	01-331-130. FALSE ALARM VIOLATIONS	(2,200)
	01-341-000. INTEREST EARNINGS	(20,000)
	01-342-200. RENTAL OF OKE HOUSE	(2,500)
	01-354-070. PARK & RECREATION SUMMER PR	(8,000)
	01-354-071. PARK RENTAL	(7,000)
	01-355-010. PROPERTY TAX-PUBLIC UTILITY	(7,950)
	01-355-080. ALCOHOLIC BEVERAGE TAX	(1,050)
	01-355-130. FOREIGN FIRE INSURANCE	(125,000)
	01-355-160. REFUND AD HOC POSTRETIREMEN	(450)
	01-355-165. PENSION - ACT 205	(200,000)
	01-356-000. PAYMENT IN LIEU OF TAXES	(1,564)
	01-361-300. S/D & L/D FEES	(5,000)
	01-361-340. COND. USE & ZONING HEARINGS	(12,000)
	01-361-350. SOIL & EROSION	(34,000)
	01-361-560. SALE OF TRICENTENNIAL BOOK	(344)
	01-362-110. SALE - ACCIDENT REPORTS	(1,200)
	01-362-120. ALARM INSTALL/APD LICENSE	(4,000)
	01-362-130. FEE - FINGER PRINTING	(600)
	01-362-150. SOLICITORS LICENSE	(700)
	01-362-160. PUBLIC EXPOSITION PERMITS	(600)
	01-362-410. BUILDING PERMITS	(420,000)
	01-362-412. ZONING PERMITS	(23,000)
	01-362-413. DUMPSTER PERMIT	(200)
	01-362-450. USE AND OCCUPANCY PERMITS	(100)
	01-362-490. BUILDERS REGISTRATION	(3,119)
	01-363-510. SNOW REMOVAL- PENNDOT	(25,000)
	01-380-156. HOSPITALIZATION	(20,000)
	01-382-001. REFUND- HAZARDOUS WASTE	(2,000)
	01-382-021. RESTITUTION	(18,240)
	01-382-030. RECYCLING	(15,000)
	01-389-000. P-CARD REBATE	(1,000)
	01-392-091. TRANSFER FROM VANGUARD	(107,000)
	Total Revenue	(9,094,817)

Fund	General Ledger Account	2021 Budget	
	01-400-318. CODIFICATION	5,000	
	01-400-340. SUBSCRIPTIONS	300	
	TOTAL GOVERNING BODY	5,300	*
	01-401-003. 457 CONTRIBUTION	16,668	
	01-401-121. WAGES	416,680	
	01-401-154. RETIREE HEALTHCARE	12,000	
	01-401-156. HOSPITALIZATION	88,359	
	01-401-158. LIFE/DISABILITY INSURANCE	6,000	
	01-401-159. REIMBURSEMENT HEALTH	5,000	
	01-401-160. MEDICARE	6,041	
	01-401-161. SOCIAL SECURITY	25,834	
	01-401-162. U/E COMPENSATION ADM	304	
	01-401-197. 6% MUN. PENSION CONTRIBUTION	25,001	
	01-401-200. MISCELLANEOUS BENEFITS	20,000	
	01-401-210. OFFICE SUPPLIES	12,000	
	01-401-212. POSTAGE	4,000	
	01-401-230. UTILITIES	11,000	
	01-401-231. GAS/MILEAGE	4,000	
	01-401-240. GENERAL EXPENSE	10,000	
	01-401-311. ACCOUNTING & AUDITING	37,000	
	01-401-312. CONSULTANT	17,000	
	01-401-313. ENGINEERING	30,000	
	01-401-314. LEGAL SERVICES	25,000	
	01-401-321. TELEPHONE MONTHLY CHARGES	25,000	
	01-401-340. SUBSCRIPTIONS	1,000	
	01-401-341. ADVERTISING	5,000	
	01-401-343. TOWNSHIP NEWSLETTER	16,800	
	01-401-352. BUSINESS INSURANCE	67,710	
	01-401-384. RENTL-COPIER, SCALE, METER	4,200	
	01-401-420. DUES-CONFERENCES-TRAINING	28,100	
	01-401-452. BUILDING CLEANING	12,000	
	01-401-455. BLD. & GROUNDS MAINT	33,000	
	TOTAL EXECUTIVE	964,697	*
	01-403-119. TAX COLLECTION	9,000	
	TOTAL TAX COLLECTION	9,000	*
	01-407-243. IT - COMPUTERS	6,000	
	01-407-311. ACCOUNTING AND AUDITING	27,000	
	01-407-312. CONSULTANT	30,000	
	01-407-340. SUBSCRIPTIONS	5,500	
	01-407-384. EQUIPMENT RENTAL	1,000	
	TOTAL INFORMATION TECH & NETWORKING	69,500	*

Fund	General Ledger Account	2021 Budget
	01-410-003. 457 MATCH	106,500
	01-410-004. PHYSICALS	1,000
	01-410-120. WAGES - ADMINISTRATION	460,365
	01-410-123. WAGES - CRASH FOLLOW UP	2,000
	01-410-124. WAGES - PUBLIC RELATIONS(DAR)	10,000
	01-410-125. WAGES - MEETINGS	10,000
	01-410-126. WAGES - SCHOOL	7,000
	01-410-127. WAGES - SCHOOL - ACT 180	35,000
	01-410-128. WAGES - SHIFT COVERAGE	35,000
	01-410-130. WAGES--OFFICERS	1,935,661
	01-410-131. LONGEVITY	95,105
	01-410-132. WAGES -- HOLIDAY	40,636
	01-410-133. WAES--SCHOOL - OVERTIME	1,000
	01-410-134. WAGES -- COURT	12,000
	01-410-135. WAGES--CRIMINAL OVERTIME	17,000
	01-410-136. WAGES--SICK COVERAGE	40,000
	01-410-137. WAGES --TRAFFIC	5,000
	01-410-138. WAGES --UNUSED VACATION	55,000
	01-410-145. COMMUNITY RELATIONS	10,000
	01-410-146. WAGES - OTHER OVERTIME	15,000
	01-410-149. EMERGENCY RESPONSE TEAM	30,000
	01-410-150. WAGES - OIC	8,000
	01-410-154. RETIREE HEALTHCARE	95,000
	01-410-155. HEALTH INSURANCE INCENTIVE	8,000
	01-410-156. HOSPITALIZATION	516,015
	01-410-158. LIFE/DISABILITY INSURANCE	30,000
	01-410-159. PRESCRIPTION PROGRAM	10,000
	01-410-160. MEDICARE	42,154
	01-410-161. SOCIAL SECURITY	9,682
	01-410-162. U/E COMPENSATION	2,000
	01-410-197. MUNI PENSION 6%	7,000
	01-410-210. OFFICE SUPPLIES	13,000
	01-410-214. HIRING	10,000
	01-410-230. UTILITIES	24,000
	01-410-231. GASOLINE - POLICE CARS	32,000
	01-410-237. EMERGENCY RESP. TEAM EXPENS	10,000
	01-410-238. CLOTHING AND UNIFORMS	30,000
	01-410-239. AMMUNITION AND TARGETS	21,000
	01-410-240. GENERAL EXPENSES	5,000
	01-410-242. PROTECTION PERSONS /PROPERTY	20,000
	01-410-243. IT - Computers	10,000
	01-410-270. TRAFFIC SAFETY	10,000
	01-410-301. S.P.C.A. SERVICES	5,000

Fund	General Ledger Account	2021 Budget	
	01-410-312. CONSULTANT	45,000	
	01-410-314. LEGAL SERVICES	20,000	
	01-410-317. EXPENSE ACCOUNT	5,000	
	01-410-320. COMMUNICATION	15,000	
	01-410-321. TELEPHONE MONTHLYCHARGES	25,000	
	01-410-329. LIVESCAN	8,000	
	01-410-340. SUBSCRIPTIONS	6,000	
	01-410-352. BUSINESS INSURANCE	213,000	
	01-410-374. REPAIRS-CARS/EQUIP-VENDOR	25,000	
	01-410-384. RENTALS - COPIER, CAMERA	6,000	
	01-410-420. DUES-CONFERENCES-TRAINING	25,000	
	01-410-421. HIGHER EDUCATION	40,000	
	01-410-452. BUILDING CLEANING	24,000	
	01-410-455. BUILDING MAINTENANCE	35,000	
	01-470-101. BOND DEBT REDUCTION - POLICE	87,136	
	TOTAL POLICE	4,420,254	
	01-492-091. POLICE RETIREMENT HOSP.	132,023	
	01-492-600. TRANSFER - POLICE PENSION	803,159	
	TOTAL OPEB & PENSION	935,182	
	01-411-163. FIREMENS RELIEF ASSOC.	125,000	
	01-411-312. CONSULTANT	25,000	
	01-411-352. LIAB.(CASUALTY)INS.-VOL FIRE	15,500	
	01-411-366. WATER - FIRE HYDRANTS	50,000	
	01-411-540. VOLUNTEER FIRE	363,590	
	TOTAL FIRE	579,090	
	01-413-003. 457 MATCH	7,115	
	01-413-121. WAGES	177,877	
	01-413-156. HOSPITALIZATION	59,445	
	01-413-158. LIFE/DISABILITY INSURANCE	2,000	
	01-413-159. PRESCRIPTION REIMBURSEMENT	5,500	
	01-413-160. MEDICARE	2,579	
	01-413-161. SOCIAL SECURITY	11,029	
	01-413-162. U/E COMPENSATION	240	
	01-413-197. MUNI PENSION 6%	10,673	
	01-413-232. Vehicle Expenses	600	
	01-413-240. GENERAL EXPENSES	1,000	
	01-413-260. SMALL TOOLS & MINOR EQUIP.	1,000	
	01-413-313. ENGINEERING	30,000	
	01-413-340. SUBSCRIPTIONS	1,000	
	01-413-411. STATE FEE	4,000	
	01-413-420. DUES-CONFERENCES-TRAINING	4,000	
	TOTAL CODE ENFORCEMENT	318,058	*

Fund	General Ledger Account	2021 Budget	
	01-414-003. 457 MATCH	4,494	
	01-414-120. WAGES	131,707	
	01-414-156. HOSPITALIZATION	19,238	
	01-414-158. LIFE/DISABILITY INSURANCE	1,400	
	01-414-159. PRESCRIPTION REIMBURSEMENT	1,500	
	01-414-160. MEDICARE	1,910	
	01-414-161. SOCIAL SECURITY	8,166	
	01-414-162. U/E COMPENSATION	160	
	01-414-197. MUNI PENSION 6%	6,741	
	01-414-240. GENERAL EXPENSES	500	
	01-414-251. REPAIRS - Vehicle - ZONING	500	
	01-414-305. HISTORIC PRESERVATIONS	500	
	01-414-306. COMPREH. PLAN REVIEW	10,000	
	01-414-312. CONSULTANT	15,000	
	01-414-313. ENGINEERING & ARCHITECT	55,000	
	01-414-314. LEGAL SERVICES	40,000	
	01-414-316. COURT REPORTER	5,000	
	01-414-317. ZONING HEARING & COND. USE	1,200	
	01-414-340. SUBSCRIPTIONS	500	
	01-414-341. ADVERTISING	5,250	
	01-414-420. DUES-CONFERENCES-TRAINING	3,500	
	TOTAL PLANNING & ZONING	312,266	*
	01-415-240. General Expenses	5,000	
	TOTAL EMERGENCY MANAGEMENT	5,000	*
	01-426-341. RECYCLING CHARGES	31,500	
	TOTAL RECYCLING	31,500	*

Fund	General Ledger Account	2021 Budget
	01-430-003. 457 MATCH	18,823
	01-430-120. WAGES--PUB. WKS DIR.	419,240
	01-430-156. HOSPITALIZATION	163,682
	01-430-158. LIFE/DISABILITY INSURANCE	6,000
	01-430-159. PRESCRIPTION REIMBURSEMENT	4,000
	01-430-160. MEDICARE	6,823
	01-430-161. SOCIAL SECURITY	29,178
	01-430-162. U/E COMPENSATION	522
	01-430-180. OVERTIME	51,353
	01-430-197. MUNI PENSION 6%	28,236
	01-430-220. CLOTHING & SHOES & MEDICAL	12,000
	01-430-229. FOOD	500
	01-430-230. HEATING FUEL	3,500
	01-430-231. GASOLINE	6,000
	01-430-240. GENERAL EXPENSES	7,000
	01-430-250. REPAIRS & MAINTENANCE--CAR 5	1,500
	01-430-260. SMALL TOOLS & MINOR EQUIP.	8,500
	01-430-352. BUSINESS INSURANCE	52,000
	01-430-361. ELECTRIC SERVICE	6,500
	01-430-368. UNDERGROUND TANKS	4,500
	01-430-420. TRAINING-DUES-CONFERENCES	2,000
	01-430-454. GROUND MAINTENANCE	3,500
	01-430-455. BUILDING MAINTENANCE	5,000
	01-432-229. FOOD	1,200
	01-432-250. REPAIR AND MAINT. TRUCKS	17,500
	01-432-450. REPAIRS/MAINT. - CONTRACT	4,000
	01-433-220. OPERATING SUPPLIES	17,500
	01-433-372. TRAFFIC SIGNAL	6,000
	01-433-450. REPAIRS/MAINT. - CONTRACT	8,000
	01-437-250. SUPPLIES - TWP VEHICLES	23,000
	01-437-374. REPAIRS - VENDOR	10,000
	01-438-231. FUEL - TRUCKS	20,000
	01-438-245. ASPHALT,OIL, AGGREGATES	22,000
	01-438-247. STORM WATER INLETS,LIDS,PIPE	17,500
	01-438-313. ENGINEERING SERVICES	8,000
	01-438-384. RENT OF MACHINERY & EQUIP	7,500
	01-438-450. REPAIRS/MAINT - CONTRACT	25,000
	01-438-452. TREE REMOVAL	22,500
	TOTAL PUBLIC WORKS	1,050,057

Fund	General Ledger Account	2021 Budget
	01-454-000. EVENTS-OUTSIDE VENDORS	14,500
	01-454-003. 457 Match	3,818
	01-454-148. WAGES	95,451
	01-454-156. HOSPITALIZATION	22,381
	01-454-158. LIFE/DISABILITY	1,000
	01-454-159. PRESCRIPTION REIMBURSEMENT	1,500
	01-454-160. MEDICARE	1,384
	01-454-161. FICA	5,918
	01-454-162. PAUC	80
	01-454-197. MUNI PENSION 6%	5,727
	01-454-210. OFFICE SUPPLIES	450
	01-454-220. SUPPLIES	8,500
	01-454-230. UTILITIES	3,200
	01-454-247. SIGNAGE	8,500
	01-454-312. CONSULTANT	5,000
	01-454-321. COMMUNICATIONS	3,500
	01-454-340. ADV., PRINT, TRAINING, DUES, SUBS	8,500
	01-454-361. ELECTRIC SERVICE	3,500
	01-454-366. PUBLIC UTILITY SERVICE - WATER	300
	01-454-374. RPRS. & MAINT. SERV. & CONT. -	4,500
	01-454-420. DUES-CONFERENCES-TRAINING	2,600
	01-454-454. GROUNDS MAINT.	94,000
	01-454-455. BUILDING MAINTENANCE	9,500
	01-456-520. MALVERN & PAOLI LIBRARY	89,604
	TOTAL CULTURE & RECREATION	393,413
	01-492-017. TRANSFER TO BARTRAM S BRIDGE	1,500
	TOTAL INTERFUND TRANSFERS	1,500
	TOTAL EXPENDITURES	9,094,817
	TOTAL GENERAL FUND	-
* Department within General Government		

Fund	General Ledger Account	2021 Budget
OPEN SPACE	04-310-201. OPEN SPACE TAX 1/8 OF 1%	(725,000)
	04-341-000. INTEREST	(11,000)
	TOTAL REVENUE	(736,000)
	04-400-532. BOND ADM IN EXPENSE 3	1,000
	TOTAL GENERAL GOVERNMENT	1,000
	04-470-103. BOND DEBT REDUCTION 3	360,000
	04-472-103. BOND DEBT INTEREST 3	195,760
	TOTAL CULTURE & RECREATION	555,760
	TOTAL EXPENSES	556,760
	TOTAL OPEN SPACE FUND	(179,240)
PENNS PRESERVE	07-341-000. INTEREST	(400)
	07-364-120. SEWER USE CHARGE	(146,608)
	TOTAL REVENUE	(147,008)
	07-400-220. OPERATING SUPPLIES	2,000
	07-400-240. GENERAL EXPENSES	2,000
	TOTAL GENERAL GOVERNMENT	4,000
	07-429-220. OPERATING SUPPLIES	4,000
	07-429-240. GENERAL EXPENSES	850
	07-429-260. SMALL TOOLS & MINOR EQUIP.	1,000
	07-429-313. ENGINEERING SERVICES	19,200
	07-429-321. TELEPHONE CHARGES/ALARM	1,750
	07-429-361. ELECTRICITY	17,000
	07-429-366. WATER	1,000
	07-429-370. REPAIRS & MAINTENANCE	15,000
	07-429-454. GROUNDS MAINTENANCE	10,000
	07-429-456. PLANT OPERATOR	60,000
	07-429-457. LABORATORY/WELLS	7,500
	TOTAL SANITARYSEWER OPERATIONS	137,300
	TOTAL EXPENSES	141,300
	TOTAL PENNS PRESERVE	(5,708)

Fund	General Ledger Account	2021 Budget
VALLEYFORGE SEWER FUN	08-341-000. INTEREST EARNINGS	(7,800)
	08-364-120. SEWER USE CHARGE	(1,933,000)
	08-364-900. FEE - SEWER CERTIFICATION	(6,500)
	TOTAL REVENUE	(1,947,300)
	08-400-003. DEFERRED COMPENSATION	1,247
	08-400-140. WAGES-SEWER/CLERICAL	61,976
	08-400-156. HOSPITALIZATION	4,569
	08-400-158. LIFE INSURANCE	1,100
	08-400-160. MEDICARE	898
	08-400-161. FICA (SOCIAL SECURITY)	3,842
	08-400-162. U/E COMPENSATION ADMIN	96
	08-400-197. MUNI PENSION	1,871
	08-400-210. OFFICE SUPPLIES	4,000
	08-400-240. GENERAL EXPENSES	25,000
	08-400-314. LEGAL SERVICES	75,000
	08-400-352. INSURANCES	18,500
	TOTAL GENERAL GOVERNMENT	198,099
	08-400-386. VALLEYFORGE SEWER AUTH.	675,836
	08-400-387. TREDYFFRIN TRUNK LINE	427,480
	08-400-388. E. GOSHEN MUNICIPAL AUTH.	12,000
	08-400-532. BOND ADMIN,EXP.-USBANK	539
	08-429-003. 457 MATCH	7,320
	08-429-140. WAGES-MAINTENANCE CREW	163,035
	08-429-156. HOSPITALIZATION	63,653
	08-429-158. LIFE INSURANCE	2,200
	08-429-160. MEDICARE	2,652
	08-429-161. SOCIAL SECURITY	11,348
	08-429-162. U/E COMPENSATION	198
	08-429-180. OVERTIME	19,972
	08-429-197. MUNI PENSION 6%	10,981
	08-429-220. OPERATING SUPPLIES	11,000
	08-429-230. FUEL - EMERG. GENERATORS	1,500
	08-429-240. GENERAL EXPENSES	7,500
	08-429-250. REPAIRS & MAINT -- TRUCK 12	1,000
	08-429-260. SMALL TOOLS / MINOR EQUIP.	2,500
	08-429-300. PENNSYLVANIA ONE CALL	1,250
	08-429-313. ENGINEERING SERVICES	35,000
	08-429-321. TELEPHONE CHARGES/ALARM	4,500
	08-429-361. ELECTRICITY	50,000
	08-429-366. WATER	1,750
	08-429-370. REPAIRS & MAINTENANCE	50,000

Fund	General Ledger Account	2021 Budget	
	08-429-454. GROUNDS MAINTENANCE	3,200	
	08-429-461. TRAINING	1,000	
	08-472-103. BOND INTERST - USBANK	393,449	
	TOTAL SANITARY SEWER OPERATIONS	1,960,863	
	TOTAL EXPENSES	2,158,962	
	TOTAL VALLEYFORGE SEWER FUND	211,662	

Fund	General Ledger Account	2021 Budget
LOW PRESSURE FUND	11-341-000. INTEREST EARNINGS	(360)
	11-364-121. LOW PRESSURE MAINTENANCE F	(62,400)
	TOTAL REVENUE	(62,760)
	11-429-321. TELEPHONE CHARGES/ALARM	600
	11-429-450. REPAIRS/MAINT. - CONTRACTS	62,160
	TOTAL SANITARY SEWER OPERATIONS	62,760
	TOTAL EXPENSES	62,760
	TOTAL LOW PRESSURE FUND	-
BARTRAM BRIDGE FUND	17-341-000. INTEREST EARNINGS	(40)
	17-380-030. DONATIONS -NEWTOWN TWP.	(1,500)
	17-392-001. TRANSFER FROM GENERAL FUND	(1,500)
	TOTAL REVENUE	(3,040)
	17-400-316. MISCELLANEOUS SERVICES	1,500
	17-454-361. ELECTRIC	340
	TOTAL GENERAL GOVERNMENT	1,840
	TOTAL EXPENSES	1,840
	TOTAL BARTRAM BRIDGE FUND	(1,200)
CAPITAL RESERVE	30-341-000. INTEREST EARNINGS	(2,400)
	TOTAL REVENUE	(2,400)
	30-401-212. ADMIN. BLDG	79,000
	30-401-610. GENERAL CONSTRUCTION	46,000
	TOTAL GENERAL GOVERNMENT	125,000
	30-410-341. PD CAPITAL - VEHICLES	97,100
	30-410-605. PD CAPITAL - GENERAL	85,000
	30-410-606. CAPITAL - IT	20,000
	TOTAL PUBLIC SAFETY - POLICE	202,100
	30-430-840. PW BUILDING	640,000
	TOTAL PUBLIC WORKS	640,000
	30-454-840. PARKS	40,000
	TOTAL CULTURE & RECREATION	40,000
	TOTAL EXPENSES	1,007,100
	TOTAL CAPITAL RESERVE	1,004,700

Fund	General Ledger Account	2021 Budget
STATE LIQUID FUELS	35-341-000. INTEREST EARNINGS	(1,200)
	35-355-050. STATE MOTOR LICENSE GRANT	(336,401)
	35-355-150. STATE TURNBACK FUNDS	(20,360)
	TOTAL REVENUE	(357,961)
	35-432-220. SALT	80,000
	35-433-361. PUBLIC UTILITY TRAFFIC LIGHTS	8,000
	35-434-361. PUBLIC UTILITY STREET LIGHTS	23,000
	35-438-450. REPAIRS/MAINT - CONTRACT	250,000
	35-438-740. CAPITAL PURCHASE NEW	109,000
	TOTAL PUBLIC WORKS	470,000
	TOTAL EXPENSES	470,000
	TOTAL STATE LIQUID FUELS	112,039

## 8. FUTURE CAPITAL PROJECTS

There are no scheduled capital improvement projects at this time. Following is a list of future potential projects that have not been formalized by the Township.

FUTURE SANITARY SEWER REPAIRS WILLISTOWN TOWNSHIP				
SEGMENT	LENGTH FT.	ISSUE	RECOMMENDED REPAIR	LOCATION
MH 2-165 to MH 2-164	166	Old Terra Cotta Sags	Replace/Reline	Fairview
MH 2-164 to MH 2-163	60	Old Terra Cotta Sags	Replace/Reline	Fairview
MH 2-163 to MH 2-162	333	Old Terra Cotta Sags	Replace/Reline	Fairview
MH 2-162 to MH 2-161	127	PVC Deformed/Sinking	Replace	Fairview
MH 2-161 to MH 2-160	254	PVC Deformed/Sinking	Replace	Fairview
MH 2-160 to MH 2-151	260	PVC Deformed/Sinking	Replace	Fairview
MH 2-151 to MH 2-078	55	Sinking	Replace	Paoli Pike
MH 2-078 to MH 2-166	340	PVC Deformed/Sinking	Replace	Paoli Pike
MH 2-166 to MH 2-182	337	PVC Deformed/Sinking	Replace	Paoli Pike
MH 3-020 to MH 3-019	271	Inflow/Fractures	Replace	Paoli Pike
MH 3-019 to MH 3-018	232	Inflow/Fractures	Replace	Paoli Pike
MH 3-009 to MH 3-008	90	I&I Gusher @ 75 Feet	Spot Repair/Reline	Paoli Pike ROW
MH 3-006 to MH 3-005	179	Camera Under Water Sags	Replace	Paoli Pike ROW
MH 3-005 to MH 3-004	265	I&I Runners 39' 105' & Sags	Replace	Paoli Pike ROW
MH 1-40 to MH 1-041	228	15" Cast Iron Corroded	Replace	Lancaster Pike
MH 3-092 to MH 3-091	109	ACP Deteriorated	Replace	Long Lane
MH 3-091 to MH 3-090	104	ACP Deteriorated	Replace	Long Lane
MH 3-090 to MH 3-089	161	ACP Deteriorated	Replace	Long Lane
MH 3-089 to MH 3-088	115	ACP Deteriorated	Replace	Long Lane
MH 2-007 to MH 2-006	78	I&I Runner	Replace	Long Lane
MH 2-008 to MH 2-006	105	I&I Runner	Reline Existing Pipe and Reline Manhole	Cobblestone
MH 2-027 to MH 2-159	337	Inflow at Fracture	Reline Existing Pipe and Reline Manhole	Cobblestone
MH 2-128 to MH 2-072	186	I&I	Reline Existing Pipe	ROW Chetwynd
MH 1-011 to MH 1-010	228	Lateral Defects	Reline Existing Pipe	ROW Gable
MH 1-010 to MH 1-009	322	I&I Runner	Spot Repair/Replace	N. Cedar Hollow
MH 1-009 to MH 1-008	341	Cracks Offset Joints	Spot Repair/Replace	N. Cedar Hollow
MH 1-006 to MH 1-005		Cracks Offset Joints	Spot Repair/Replace	N. Cedar Hollow
MH 1-005 to MH 1-004		Sags Offset Joints	Spot Repair/Replace	N. Cedar Hollow
MH 1-004 to MH 1-003		Cracks Offset Joints	Spot Repair/Replace	N. Cedar Hollow
<b>MANHOLE REPAIRS</b>	<b>LENGTH FT.</b>	<b>ISSUE</b>	<b>RECOMMENDED REPAIR</b>	<b>LOCATION</b>
MH 2-146	N/A	Inflow	Seal & Reline Manhole	So. Lloyd
MH 2-210	N/A	Structural	Structural Repairs Needed	Devon
MH 2-211	N/A	Structural	Structural Repairs Needed	Devon
MH 3-041	N/A	Reactivate	Put Force Main Back in Manhole	Grubb
MH 3-042 to MH 3-045	150	Eliminate 90 at MH-3-043	Add Additional Manholes (2)	Grubb/King
MH-3-048	N/A	To Low SSO Issue	Raise Cone	Pond
MH-2-002	N/A	To Low SSO Issue	Raise Cone	Devon Road Station #1

## 9. LIST OF ASSETS AND COSTS

**WILLISTOWN TOWNSHIP WASTEWATER SYSTEM  
SUMMARY OF ANALYSIS OF ORIGINAL COST OF WASTEWATER SYSTEM  
AS OF JUNE 28, 2021**

<b>ACCOUNT</b>	<b>DESCRIPTION</b>	<b>ORIGINAL COST (\$)</b>
353.2	LAND AND LAND RIGHTS - COLLECTION	\$ 216.00
353.3	LAND AND LAND RIGHTS - PUMPING	\$ 21,606.00
353.4	LAND AND LAND RIGHTS - TREATMENT	\$ 1,500,007.00
354.3	STRUCTURES AND IMPROVEMENTS - PUMPING	\$ 2,146,252.31
354.4	STRUCTURES AND IMPROVEMENTS - TREATMENT PLANT	\$ 1,448,500.00
355.3	POWER GENERATION - PUMPING	\$ 344,586.01
360.21	COLLECTION SEWERS - FORCE/PRESSURE MAINS	\$ 6,823,585.73
361.21	COLLECTION SEWERS - GRAVITY MAINS	\$ 3,807,421.45
361.22	COLLECTION SEWERS - GRAVITY MAINS - REPAIRS/UPGRADES	\$ 956,037.32
361.23	COLLECTION SEWERS - GRAVITY - MANHOLES	\$ 1,562,320.53
363.20	SERVICES TO CUSTOMERS	\$ 698,453.71
364.3	FLOW MEASURING DEVICES	\$ 23,240.21
390.7	EQUIPMENT - GENERAL	\$ 309,293.46
	<b>SYSTEM TOTAL</b>	<b>\$ 19,641,519.75</b>

ACCOUNT	DESCRIPTION	YEAR	QUANTITY	UNIT COST	ORIGINAL COST
---------	-------------	------	----------	-----------	---------------

**353.2**

**LAND AND LAND RIGHTS - COLLECTION**

Fox Ridge Gravity Sewer Easements (UPI: 54-2-62.30, 54-2-62.29, 54-2-62.28, 54-2-62.27)	2012				\$1.00
Fox Ridge Gravity Sewer Easements (UPI: 54-2-62, 54-2-62.18, 54-2-62.19)	2015				\$1.00
2291 South Valley Rd (UPI: 54-4-8) Easement	2018				\$1.00
Applebrook Meadows Gravity Sewer (UPI: 54-2-95.5) Easement	2018				\$1.00
15 Long Ln (UPI: 54-3-33) Easement	2018				\$1.00
2 McKinley Ave (UPI: 54-3-50) Easement	2018				\$1.00
285 W Central Ave (UPI: 54-1K-1.7) Easement	2020				\$1.00
209 Sewer Easements	Varies				\$209.00
TOTAL LAND AND LAND RIGHTS - COLLECTION					\$216.00

**353.3**

**LAND AND LAND RIGHTS - PUMPING**

Pump Station #1 Property (UPI: 54-2-33.3A)	1975				\$8,601.00
Pump Station #2 Property (UPI: 54-3-343.1)	1975				\$5,500.00
Pump Station #3 Property (UPI: 54-3-212.1)	1975				\$7,500.00
Booster Pump Station #1 Property (UPI: 54-3-315)	1978				\$1.00
Penn's Preserve/PS #5 Easements (UPI: 54-8-14, 54-8-14.2, 54-8-14.2A, 54-8-14.2B)	1999				\$1.00
Booster Pump Station #2 Easement (UPI: 54-3-300.17)	2001				\$1.00
Pump Station #4 Force Main Easements (UPI: 54-2-95, 54-2-95.1, 54-2-95.2, 54-2-95.5, 54-2-115)	2006				\$1.00
Dovecote Pump Station Easements (UPI: 54-3-449, 54-3-450, 54-3-451, 54-3-452, 54-3-460, 54-3-461)	2018				\$1.00
TOTAL LAND AND LAND RIGHTS - PUMPING					\$21,606.00

**353.4**

**LAND AND LAND RIGHTS - TREATMENT**

Penn's Preserve (UPIs: 54-8-14.1, 54-8-14.3, 54-8-14.4, 54-8-14.5)	2001				\$4.00
Penn's Preserve (UPI: 54-8-14.2)	2002				\$1.00
Penn's Preserve (UPIs: 54-8-14.2B, 54-8-2679)	2003				\$2.00
Penn's Preserve (UPI: 54-8-14.2A)	2006				\$1,500,000.00
TOTAL LAND AND LAND RIGHTS - TREATMENT					\$1,500,007.00

**354.3**

**STRUCTURES AND IMPROVEMENTS - PUMPING**

Pump Station #1 - Initial Facility	1977				\$135,577.68
Pump Station #2 - Initial Facility	1977				\$135,577.68
Pump Station #3 - Initial Facility	1977				\$135,577.68
Pump Station #5 - Initial Facility	1997				\$306,628.72
Dovecote Pump Station - Initial Facility	1998				\$148,622.00

ACCOUNT	DESCRIPTION	YEAR	QUANTITY	UNIT COST	ORIGINAL COST
	Booster Pump Station #1 - Initial Facility	2001			\$30,426.04
	Booster Pump Station #2 - Initial Facility	2001			\$30,426.04
	Pump Station #4 - Initial Facility	2006			\$407,943.57
	Pump Station #5 - Building Improvements	2011			\$1,650.00
	Pump Station #3 - Pump Upgrades and Station Improvements	2014			\$659,984.76
	Pump Station #1 - Pump Upgrades	2015			\$34,406.50
	Pump Station #2 - Pump Upgrades	2015			\$43,611.62
	Pump Station #5 - Pump Upgrades	2019			\$75,820.00
	TOTAL STRUCTURES AND IMPROVEMENTS - PUMPING				\$2,146,252.31
<b>354.4</b>	<b>STRUCTURES AND IMPROVEMENTS - TREATMENT PLANT</b>				
	Initial facility cost including pumps, building, treatment structures, fencing, property, etc.	1998			\$1,448,500.00
	TOTAL STRUCTURES AND IMPROVEMENTS - TREATMENT PLANT				\$1,448,500.00
<b>355.3</b>	<b>POWER GENERATION - PUMPING</b>				
	Pump Station #3 Generator	2010			\$344,586.01
	TOTAL POWER GENERATION - PUMPING				\$344,586.01
<b>360.21</b>	<b>COLLECTION SEWERS - FORCE/PRESSURE MAINS</b>				
	DIP - 4-inch	1977	820	\$25.12	\$20,601.17
	DIP - 8-inch	1977	1,555	\$48.77	\$75,837.35
	DIP - 14-inch	1977	6,264	\$61.00	\$382,124.04
	PVC - 1.5-inch	1993	921	\$54.00	\$49,729.40
	PVC - 2-inch	1993	20,614	\$54.51	\$1,123,751.60
	PVC - 2.5-inch	1993	1,832	\$55.03	\$100,821.01
	PVC - 2-inch	1996	1,874	\$58.81	\$110,204.32
	PVC - 2-inch	1997	892	\$60.96	\$54,375.96
	PVC - 1.5-inch	1998	3,400	\$54.20	\$184,292.58
	PVC - 2-inch	1998	11,595	\$61.94	\$718,231.40
	PVC - 2.5-inch	1998	1,281	\$62.53	\$80,104.90
	PVC - 3-inch	1998	3,743	\$63.12	\$236,269.76
	PVC - 4-inch	1998	5,406	\$61.07	\$330,119.01
	PVC - 6-inch	1998	3,169	\$65.34	\$207,068.80
	PVC - 4-inch	1999	1,839	\$69.02	\$126,935.14
	PVC - 2-inch	2001	755	\$66.37	\$50,108.75
	HDPE - 6-inch	2006	9,702	\$244.38	\$2,370,976.70
	HDPE - 4-inch	2009	2,475	\$243.25	\$602,033.85
	TOTAL COLLECTION SEWERS - FORCE/PRESSURE MAINS				\$6,823,585.73

**ACCOUNT YEAR QUANTITY UNIT COST ORIGINAL COST**

ACCOUNT	YEAR	QUANTITY	UNIT COST	ORIGINAL COST
<b>361.21</b>				
<b>COLLECTION SEWERS - GRAVITY MAINS</b>				
VP - 8-inch	1977	59,472	\$22.83	\$1,357,563.07
CIP - 8-inch	1977	775	\$14.12	\$10,941.90
ACP - 8-inch	1977	26,773	\$23.38	\$625,962.82
VP - 10-inch	1977	1,453	\$27.26	\$39,603.80
ACP - 10-inch	1977	4,659	\$21.89	\$101,970.53
VP - 12-inch	1977	497	\$23.10	\$11,482.26
ACP - 12-inch	1977	2,062	\$29.38	\$60,577.87
VP - 15-inch	1977	360	\$24.13	\$8,686.78
RCP - 15-inch	1977	1,679	\$24.83	\$41,697.28
ACP - 15-inch	1977	1,498	\$43.92	\$65,786.92
DIP - 16-inch	1977	166	\$46.72	\$7,755.47
RCP - 18-inch	1977	3,933	\$29.26	\$115,095.22
DIP - 18-inch	1977	105	\$29.26	\$3,072.72
Unknown - 8-inch	1978	4,737	\$16.51	\$78,212.82
ACP - 8-inch	1980	3,047	\$18.18	\$55,387.89
PVC - 8-inch	1987	5,100	\$24.15	\$123,157.25
PVC - 8-inch	1989	3,464	\$39.23	\$135,906.68
PVC - 8-inch	1998	3,806	\$49.07	\$186,760.37
DIP - 8-inch	1998	7,803	\$45.54	\$355,322.31
PVC - 8-inch	2009	585	\$46.97	\$27,477.80
PVC - 8-inch	2013	3,667	\$95.23	\$349,216.32
PVC - 6-inch	2017	778	\$58.85	\$45,783.38
<b>TOTAL COLLECTION SEWERS - GRAVITY MAINS</b>				
				<b>\$3,807,421.45</b>

<b>361.22</b>				
<b>COLLECTION SEWERS - GRAVITY MAINS - REPAIRS/UPGRADES</b>				
Fox Ridge Sewer Upgrades	2009			\$71,101.25
Long Lane Emergency Sewer Repair	2019			\$336,363.30
McKinley Avenue Emergency Sewer Repair	2019			\$307,674.90
Jacqueline Drive Emergency Sewer Repair	2020			\$39,259.87
Marlin Drive & Eisenhower Drive Sewer Replacement	2020			\$201,638.00
<b>TOTAL COLLECTION SEWERS - GRAVITY MAINS - REPAIRS/UPGRADES</b>				
				<b>\$956,037.32</b>

<b>361.23</b>				
<b>COLLECTION SEWERS - GRAVITY - MANHOLES</b>				
Initial Installation - Original System	1977	519	\$1,642.78	\$852,602.51
Initial Installation - Weatherstone	1978	34	\$1,770.32	\$60,191.03
Initial Installation - Rustmont	1980	14	\$2,064.32	\$28,900.41
Initial Installation - Brampton Chase	1987	28	\$2,809.82	\$78,674.85
Initial Installation - Fox Ridge	1989	15	\$2,949.80	\$44,246.95
Initial Installation - Pump Station 5	1998	6	\$3,775.33	\$22,651.99

**ACCOUNT DESCRIPTION YEAR QUANTITY UNIT COST ORIGINAL COST**

Initial Installation - Quaker Farms	1998	50	\$3,775.33	\$188,766.58
Initial Installation - Dovecote	1998	21	\$3,775.33	\$79,281.97
Initial Installation - Applebrook Meadows	2013	34	\$6,088.36	\$207,004.24
<b>TOTAL COLLECTION SEWERS - GRAVITY - MANHOLES</b>				<b>\$1,562,320.53</b>

**363.20 SERVICE TO CUSTOMERS**

PVC - 4-inch	1977	19,860	\$14.12	\$280,395.10
PVC - 4-inch	1978	1,755	\$15.21	\$26,701.88
PVC - 4-inch	1980	1,215	\$17.74	\$21,555.81
PVC - 4-inch	1987	420	\$24.15	\$10,142.36
PVC - 4-inch	1989	390	\$25.29	\$9,864.65
PVC - 4-inch	1993	1,995	\$28.56	\$56,967.34
PVC - 4-inch	1996	225	\$30.80	\$6,930.49
PVC - 4-inch	1997	45	\$31.93	\$1,436.91
PVC - 4-inch	1998	3,195	\$32.45	\$103,666.37
PVC - 4-inch	2001	2,130	\$34.76	\$74,049.07
PVC - 4-inch	2013	2,040	\$52.33	\$106,743.74
<b>TOTAL SERVICE TO CUSTOMERS</b>				<b>\$698,453.71</b>

**364.3**

**FLOW MEASURING DEVICES**

Cedar Hollow Flow Meter	1977			\$9,195.07
Pheasant Run Flow Meter	1978			\$9,908.97
Flow Meter	2007			\$2,380.00
Counter	2008			\$1,756.17
<b>TOTAL FLOW MEASURING DEVICES</b>				<b>\$23,240.21</b>

**390.7**

**EQUIPMENT - GENERAL**

ICOM3 Software	2015			\$36,843.75
Video Pipe Inspection Trailer	2015			\$71,730.00
Jet Truck	2015			\$200,719.71
<b>TOTAL EQUIPMENT - GENERAL</b>				<b>\$309,293.46</b>

**APPENDICES**

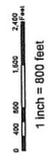
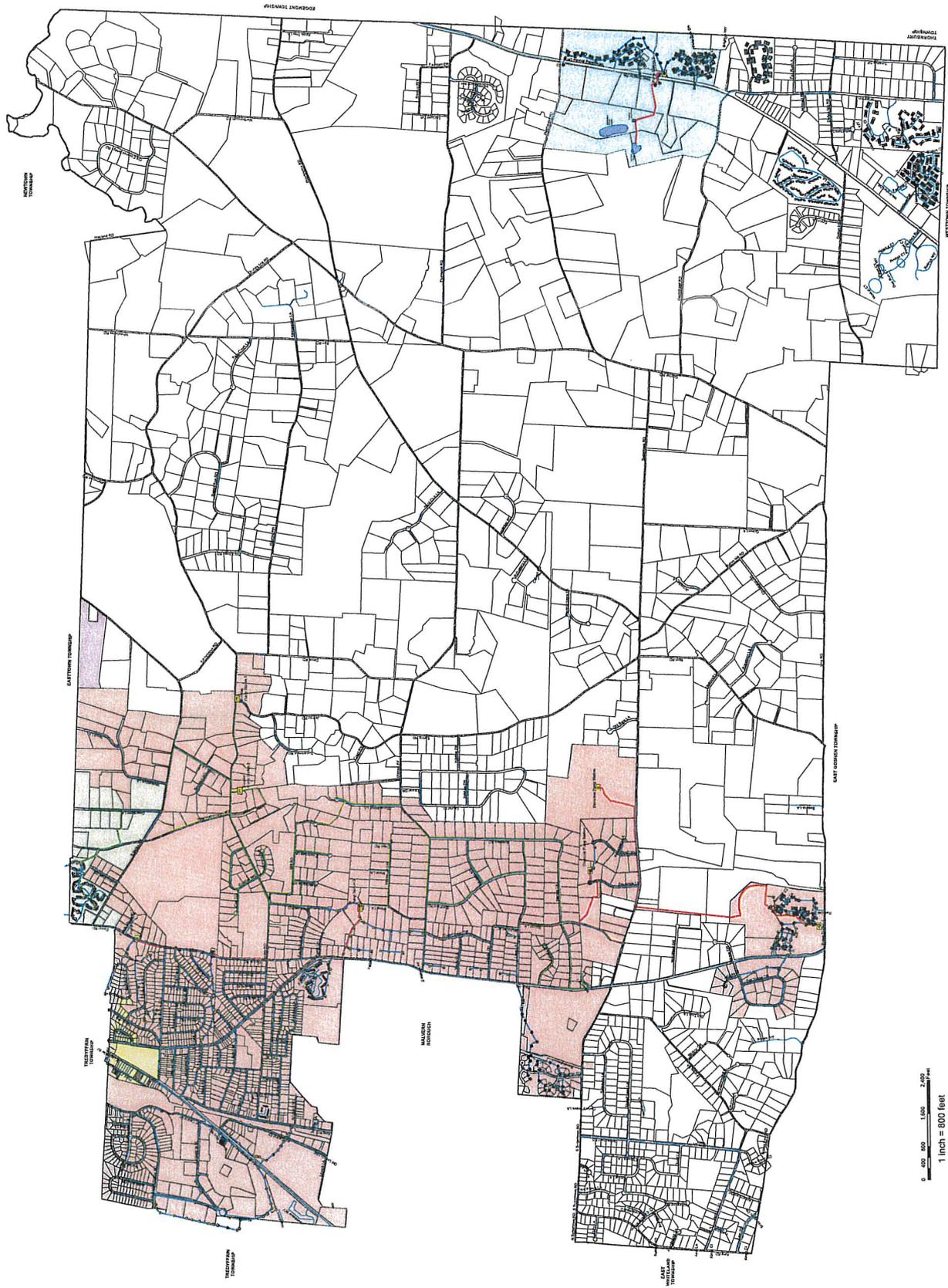
**APPENDIX A**

**SYSTEM MAPPING**

- **A1 – Sanitary Sewer System Map**

**Legend**

- Drainage Areas**
- Tredyfflin Township 1
- Tredyfflin Township 2
- Tredyfflin Township 3
- Easttown Township 1
- Easttown Township 2
- Penn's Preserve
- Road
- Pressure Sewer
- Gravity
- Force Main
- Manholes
- Pump Stations



**WASTEWATER FACILITIES PLAN**  
**CHAPTER 84 REPORT**  
**VALLEY Forge SEWER AUTHORITY**  
 500 N. MARKET ST.  
 CHESTER, PA 19380  
**WILLOWTOWN TOWNSHIP**  
 1000 W. MARKET ST.  
 WILLOWTOWN, PA 19380  
 MALVERN, PENNSYLVANIA 19355

## APPENDIX B

- Uniform System of Accounts - Section 300
- PA ACT 12 of 2016

**UNIFORM SYSTEM OF ACCOUNTS  
FOR CLASS A  
WASTEWATER UTILITIES**

**1996**



**NATIONAL ASSOCIATION OF  
REGULATORY UTILITY COMMISSIONERS**

1101 Vermont Avenue NW  
Washington, D.C. 20005  
USA

Tel: (202) 898-2200

Fax: (202) 898-2213

[www.naruc.org](http://www.naruc.org)

\$26.00

WASTEWATER UTILITY PLANT ACCOUNTS

	<u>.1</u>	<u>.2</u>
	Intangible Plant	Collection Plant
351. Organization	351.1	XXXXXXXXXX
352. Franchises	352.1	XXXXXXXXXX
353. Land and Land Rights	XXXXXXXXXX	353.2
354. Structures and Improvements	XXXXXXXXXX	354.2
355. Power Generation Equipment	XXXXXXXXXX	355.2
360. Collection Sewers - Force	XXXXXXXXXX	360.2
361. Collection Sewers - Gravity	XXXXXXXXXX	361.2
362. Special Collecting Structures	XXXXXXXXXX	362.2
363. Services to Customers	XXXXXXXXXX	363.2
364. Flow Measuring Devices	XXXXXXXXXX	364.2
365. Flow Measuring Installations	XXXXXXXXXX	365.2
366. Reuse Services	XXXXXXXXXX	XXXXXXXXXX
367. Reuse Meters and Meter Installations	XXXXXXXXXX	XXXXXXXXXX
370. Receiving Wells	XXXXXXXXXX	XXXXXXXXXX
371. Pumping Equipment	XXXXXXXXXX	XXXXXXXXXX
374. Reuse Distribution Reservoirs	XXXXXXXXXX	XXXXXXXXXX
375. Reuse Transmission and Distribution System	XXXXXXXXXX	XXXXXXXXXX
380. Treatment and Disposal Equipment	XXXXXXXXXX	XXXXXXXXXX
381. Plant Sewers	XXXXXXXXXX	XXXXXXXXXX
382. Outfall Sewer Lines	XXXXXXXXXX	XXXXXXXXXX
389. Other Plant and Misc. Equipment	389.1	389.2
390. Office Furniture and Equipment	XXXXXXXXXX	XXXXXXXXXX
391. Transportation Equipment	XXXXXXXXXX	XXXXXXXXXX
392. Stores Equipment	XXXXXXXXXX	XXXXXXXXXX
393. Tools, Shop and Garage Equipment	XXXXXXXXXX	XXXXXXXXXX
394. Laboratory Equipment	XXXXXXXXXX	XXXXXXXXXX
395. Power Operated Equipment	XXXXXXXXXX	XXXXXXXXXX
396. Communication Equipment	XXXXXXXXXX	XXXXXXXXXX
397. Miscellaneous Equipment	XXXXXXXXXX	XXXXXXXXXX
398. Other Tangible Plant	XXXXXXXXXX	XXXXXXXXXX

**WASTEWATER UTILITY PLANT ACCOUNTS**

.3	.4	.5	.6	.7
System Pumping Plant	Treatment and Disposal Plant	Reclaimed Water Treatment Plant	Reclaimed Water Distribution Plant	General Plant
XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX
353.3	353.4	353.5	352.6	353.7
354.3	354.4	354.5	353.6	354.7
355.3	355.4	355.5	354.6	
XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX 366.6	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX
XXXXXXXXXX 370.3	XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX	367.6 XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX
371.3	XXXXXXXXXX	371.5	371.6	XXXXXXXXXX
XXXXXXXXXX	XXXXXXXXXX	374.5	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX 380.4	XXXXXXXXXX 380.5	375.6 XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX
XXXXXXXXXX	381.4	381.5	XXXXXXXXXX	XXXXXXXXXX
389.3	382.4	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX
XXXXXXXXXX	389.4	389.5	389.6	XXXXXXXXXX
XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX	XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX XXXXXXXXXX	390.7 391.7 392.7 393.7 394.7 395.7 396.7 397.7 398.7

## WASTEWATER UTILITY PLANT ACCOUNTS

The wastewater utility plant accounts have been designed utilizing an account matrix. The matrix employs a list of object accounts which in effect act as control accounts. The object accounts are further segregated by the matrix into classifications by functions or subaccount. The instructions for segregating the object accounts to the function subaccount are contained in Accounting Instruction 32. Listed below are the object account descriptions.

### 351. Organization

This account shall include all fees paid to federal or state governments for the privilege of incorporation and expenditures incident to organizing the corporation, partnership or other enterprise and putting it into readiness to do business. A sample of items to be included in this account are listed below.

1. Actual cost of obtaining certificates authorizing an enterprise to engage in the public utility business.
2. Fees and expenses for incorporation.
3. Fees and expenses for mergers or consolidations.
4. Office expenses incident to organizing the utility.
5. Stock and minute books and corporate seal.

Note A:--This account shall not include any discounts upon securities issued or assumed; nor shall it include any costs incident to negotiating loans, selling bonds or other evidences of debt, or expenses in connection with the authorization, issuance and sale of capital stock.

Note B:--Exclude from this account and include in the appropriate expense account the cost of preparing and filing papers in connection with the extension of the term of incorporation unless the first organization costs have been written off. Where charges are made to this account for expenses incurred in mergers, consolidations or reorganizations, amounts previously included herein or in similar accounts in the books of the companies concerned shall be excluded from this account.

### 352. Franchises

A. This account shall include amounts paid to the federal government, to a state or to a political subdivision thereof in consideration for franchises, consents or certificates, running in perpetuity or for a specified term of more than one year, together with necessary and reasonable expenses incident to procuring such franchises, consents or certificates of permission and approval, including expenses of organizing and merging separate corporations, where statutes require solely for the purpose of acquiring franchise.

## WASTEWATER UTILITY PLANT ACCOUNTS

B. If a franchise or certificate is acquired by assignment, the charge to this account in respect thereof shall not exceed the amount paid therefor by the utility to the assignor, nor shall it exceed the amount paid by the original grantee, plus the expense of acquisition to such grantee. Any excess of the amount actually paid by the utility over the amount specified shall be charged to account 426 - Miscellaneous Nonutility Expenses.

C. When any franchise has expired, the book cost thereof shall be credited hereto and charged to account 426 - Miscellaneous Nonutility Expenses, or to account 110.1 - Accumulated Amortization of Utility Plant in Service, as appropriate.

D. Records supporting this account shall be kept so as to show separately the book cost of each franchise.

Note:- Annual or other periodic payments under franchises shall not be included herein but in the appropriate expense account.

### 353. Land and Land Rights

This account shall include the cost of land and land rights used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment and distribution and general plant operations (See Accounting Instruction 24). A sample of items to be included in this account are listed below:

1. Bulkheads buried, not requiring maintenance or replacement.
2. Cost, first, of acquisition including mortgages and other liens assumed (but not subsequent interest thereon).
3. Condemnation proceedings, including court and counsel costs.
4. Consents and abutting damages, payment for.
5. Conveyancers' and notaries' fees.
6. Fees, commissions, and salaries to brokers, agents, and others in connection with the acquisition of the land or land rights.
7. Leases, cost of voiding upon purchase to secure possession of land.
8. Removing, relocating, or reconstructing property of others, such as buildings, highways, railroads, bridges, cemeteries, churches, telephone and power lines, etc., in order to acquire quiet possession.
9. Retaining walls unless identified with structures.
10. Special assessments levied by public authorities for public improvements on the basis of benefits for new

## WASTEWATER UTILITY PLANT ACCOUNTS

- roads, new bridges, new sewars, new curbing, new pavements, and other public improvements, but not taxes levied to provide for the maintenance of such improvements.
11. Surveys in connection with the acquisition, but not amounts paid for topographical surveys and maps where such costs are attributable to structures or plant equipment erected or to be erected or installed on such land.
  12. Taxes assumed, accrued to date of transfer of title.
  13. Title, examining, clearing, insuring and registering in connection with the acquisition and defending against claims relating to the period prior to the acquisition.
  14. Appraisals prior to closing title.
  15. Cost of dealing with distributees or legatees residing outside of the state or county, such as recording power of attorney, recording will or exemplification of will, recording satisfaction of state tax.
  16. Filing satisfaction of mortgage.
  17. Documentary stamps.
  18. Photographs of property at acquisition.
  19. Fees and expenses incurred in the acquisition of sewer rights, and grants.
  20. Cost of fill to extend bulkhead line over land under water, where riparian rights are held, which is not occasioned by the erection of a structure.
  21. Sidewalks and curbs constructed by the utility on public property.
  22. Labor and expenses in connection with securing rights of way, where performed by company employees and company agents.

### 354. Structures and Improvements

This account shall include the cost in place of structures and improvements used in connection with wastewater collection, pumping, treatment and disposal, reclaimed water treatment and distribution and general plant operations (See Accounting Instruction 25). A sample of items to be included in this account are listed below:

1. Architects' plans and specifications including supervision.
2. Boilers, furnaces, piping, wiring, fixtures, and machinery for heating, lighting, signaling, ventilating and air conditioning systems, plumbing, vacuum cleaning systems, incinerator and smoke pipe, flues, etc.

### WASTEWATER UTILITY PLANT ACCOUNTS

3. Bulkheads, including dredging, riprap fill, piling, decking, concrete fenders, etc., when exposed and subject to maintenance and replacement.
4. Commissions and fees to brokers, agents, architects and others.
5. Conduit (not to be removed) with its contents.
6. Damages to abutting property during construction.
7. Drainage systems.
8. Elevators, cranes, hoists, etc., and the machinery for operating them.
9. Excavation, including shoring, bracing, bridging, refill and disposal of excess excavated material, cofferdams around foundations, pumping water from cofferdam during construction, test borings.
10. Fences and fence curbs (not including protective fences isolating items of equipment, which should be charged to the appropriate equipment account).
11. Fire protection systems when forming a part of a structure.
12. Flagpole.
13. Floor covering (permanently attached).
14. Foundations and piers for machinery, constructed as a permanent part of a building or other item listed herein.
15. Grading and clearing when directly occasioned by the building of a structure.
16. Intrasite communication system, poles, pole fixtures, wires and cables.
17. Landscaping, lawns, shrubbery, etc.
18. Leases, voiding upon purchase, to secure possession of structures.
19. Leased property, expenditures on.
20. Lighting fixtures and outside lighting systems.
21. Marquee, permanently attached to building.
22. Painting, first cost.
23. Permanent paving, concrete, brick, flagstone, asphalt, etc., within the property lines.
24. Partitions, including movable.
25. Permits and privileges.
26. Power boards for services to a building.
27. Refrigerating systems for general use.
28. Retaining walls except when identified with land.
29. Roadways.
30. Roofs.
31. Scales, connected to and forming a part of a structure.
32. Water and wastewater systems, for general use.
33. Sidewalks, culverts, curbs and streets constructed by the utility on its property.

## WASTEWATER UTILITY PLANT ACCOUNTS

34. Sprinkling systems.
35. Stacks -- brick, steel, or concrete, when set on foundation forming part of general foundation and steelwork of a building.
36. Steel inspection during construction.
37. Storage facilities constituting a part of a building.
38. Storm doors and windows.
39. Temporary heating during construction (net cost).
40. Temporary water connection during construction (net cost).
41. Temporary shanties and other facilities used during construction (net cost).
42. Topographical maps.
43. Vaults constructed as part of a building.
44. Watchmen's sheds and clock systems (net cost when used during construction only).
45. Water meters and supply system for a building or for general company purposes.
46. Water supply piping, hydrants and wells.
47. Yard surfacing, gravel, concrete, or oil (First cost only).
48. Tunnels, intake and discharge when constructed as part of a structure including sluice gates and those constructed to house.

### 355. Power Generation Equipment

A. This account shall include the cost installed of any equipment used for the production of power principally used in pumping operations.

B. Subaccounts shall be maintained hereunder for the cost of equipment used for each type of power generating equipment.

### 360. Collecting Sewers - Force

This account shall include all sewers which are used to lift sewage from a low elevation to a higher elevation. The force sewer will include that pipe between the discharge outlet of the lift station and the receiving manhole.

### 361. Collecting Sewers - Gravity

This account shall include the installed cost of all gravity collecting sewers, interceptor, branch, trunk, lateral including service wye, and manholes and lampholes. Manholes shall be included as a separate unit of property.

### 362. Special Collecting Structures

Inverted siphon shall be included in this account but so

## WASTEWATER UTILITY PLANT ACCOUNTS

distinctly noted; also any other special designed structures unusual to the wastewater system should be included herein but specifically noted as to what they do.

### 363. Services to Customers

This account shall include the installed cost of service sewers, from collection sewer to the customer's property or curb line. A sample of items to be included in this account are listed below:

1. Jointing and jointing material.
2. Manhole or clean-out.
3. Municipal inspection and permits
4. Pavement disturbed.
5. Protection of street openings.
6. Tapping saddle.
7. Service connection wye shall be included in account 363 instead of account 361 when company owns service sewers to customers property line.

### 364. Flow Measuring Devices

A. This account shall include the cost of flow measuring and recording equipment and initial testing used for measuring the quantity of wastewater or wastewater effluent delivered by customers, whether actually in service or held in reserve.

B. When flow measuring equipment is permanently retired from service, the amount at which it is included herein shall be credited to this account.

C. The records covering flow measuring equipment shall be so kept that the utility can furnish information as to the number of devices of each type and size in service and in reserve, as well as the location of each device included in this account.

### 365. Flow Measuring Installations

A. This account shall include the cost of labor employed, materials used and expenses incurred in connection with the original installation of customers' flow measuring equipment. A sample of items to be included in this account are listed below:

1. Floats, connections, flumes, or wires.
2. Special manhole, boxes, or other separate housing.

B. When a flow measuring installation is permanently retired from service, the cost thereof shall be credited to this account.

## WASTEWATER UTILITY PLANT ACCOUNTS

### 366. Reuse Services

A. This account shall include the cost installed of reclaimed water service pipes and accessories leading to the customers' premises.

B. A complete reclaimed water service begins with the connection on the main and extends to but does not include the connection with the customer's meter. A stub service extends from the main to the property line, or the curb stop (curb stop cock).

C. Services which have been used but have become inactive shall be retired from utility plant in service immediately if there is no prospect for future use.

#### Items

1. Corporation stops or tees.
2. Gate valves and boxes.
3. Goose necks.
4. Jointing and jointing material.
5. Municipal inspection or permits.
6. Pavements disturbed.
7. Pipes.
8. Placing pipes and accessories.
9. Protection of street openings.
10. Service or curb boxes.
11. Service or curb stops (curb stop cocks).
12. Tapping main.
13. Tapping saddle.

### 367. Reuse Meters and Meter Installations

A. This account shall include the cost of meters, devices and appurtenances attached thereto, used for measuring the quantity of reclaimed water delivered to users, whether actually in service or held in reserve. It shall also include the cost of labor employed, materials used and expenses incurred in connection with the original installation of a customer's meters and devices and appurtenances attached thereto.

B. When a meter and/or meter installation is permanently retired from service, the amount at which it is included herein shall be credited to this account.

C. The records covering meters shall be so kept that the utility can furnish information as to the number of meters of each type and size in service and in reserve as well as the location of each meter included in this account.

D. A sample of items to be included in this account are listed

## WASTEWATER UTILITY PLANT ACCOUNTS

below:

1. Meters, including badging and initial testing.
2. Remote meter registers.
3. Installation labor (first installation only).
4. Meter coupling.
5. Meter bars.
6. Meter yokes.
7. Meter fittings, connections and shelves.
8. Meter vaults or boxes.
9. Stops.

Note A:--This account shall not include meters for recording the output of a supply or treatment plant, or those located on mains. It includes only those meters to record reclaimed water delivered to customers, including company use and for those used elsewhere in the system if a type available for general use.

Note B:--The utility shall maintain a statistical record to show separately the number of each type and size of meter or group of types and sizes as carried in the continuing property record. Underlying records shall be kept so that the utility can determine readily for each such classification the number of company-owned meters in service (subdivided between active and inactive) and the number of meters carried herein but not in service, the latter to include meters undergoing repairs; and the number of meters in service owned by customers.

### 370. Receiving Wells

This account shall include the cost of constructing wells at pumping stations or at other junction points along the collecting system, used for intercepting wastewater for clearing and screening, transfer to a pumping well or otherwise further convey it along the collecting system to the treatment plant or point of final discharge. This account shall include any chemical feed apparatus and holding basins associated with the receiving well.

### 371. Pumping Equipment

This account shall include the cost installed of pumping equipment driven by electric power or diesel engines. A sample of items to be included in this account are listed below:

1. Motors or engines for driving pumps.
2. Pumps, including settings, gearing, shafting and belting.
3. Sewage piping within station, including valves.
4. Auxiliary equipment for motors and pumps such as oiling systems, cooling systems, condensers, etc.

## WASTEWATER UTILITY PLANT ACCOUNTS

5. Electrical power lines and switching.
6. Foundations, frames, and bed plates.
7. Hoist units.

### 374. Reuse Distribution Reservoirs

This account shall include the cost in place of reservoirs, tanks and appurtenances used in storing reclaimed water for distribution. A sample of items to be included in this account are listed below:

1. Bridges and culverts.
2. Clearing land.
3. Dams.
4. Embankments.
5. Fences.
6. Foundations.
7. Gates and gate houses.
8. Landscaping.
9. Lighting systems.
10. Piping system within reservoirs.
11. Retaining walls.
12. Roads and paths.
13. Rust-proofing apparatus.
14. Sewer drain or storm sewer.
15. Spillways and channels.
16. Standpipes.
17. Tanks.
18. Towers.
19. Valves.

### 375. Reuse Transmission and Distribution System

A. This account shall include the cost installed of reclaimed water transmission and distribution mains and appurtenances. A sample of items to be included in this account are listed below:

1. Air chambers.
2. Blow-offs and overflows.
3. Bridges and culverts.
4. Electrolysis control equipment.
5. Gauges and recorders.
6. Jointing and jointing material.
7. Manholes.
8. Meters and appurtenances.
9. Municipal inspection or permits.
10. Pavement disturbed, including cutting and replacing pavement, pavement base and sidewalks.
11. Pipes.
12. Fire mains.
13. Fire Hydrants.

## WASTEWATER UTILITY PLANT ACCOUNTS

B. Records supporting this account shall be so kept as to show separately the cost of mains of different sizes and types and of each tunnel, bridge, or river crossing.

### 380. Treatment and Disposal Equipment

This account shall include the cost installed of apparatus equipment and other facilities used for the treatment of wastewater, disposal of sewage wastes and the treatment of effluent for reuse. A sample of items to be included in this account are listed below:

1. Aeration chambers.
2. Chemical equipment.
3. Disinfection facilities.
4. Filters.
5. Imhoff tank.
6. Land fill equipment and appurtenances.
7. Monitoring equipment.
8. Oxidation pond or lagoon.
9. Sedimentation equipment.
10. Septic tank.
11. Screen unit.
12. Sludge system.
13. Trucks, tractors, or other equipment used primarily for sludge or other waste disposal.
14. Package mechanical treatment plant.
15. Sedimentation basin.
16. Sludge digestion equipment.
17. Sludge filtration or dewatering equipment.

### 381. Plant Sewers

This account shall include the cost installed of plant yard piping and appurtenances, and facilities required to dispose of treatment plant liquid effluent into the outfall sewer line. A sample of items to be included in this account are listed below:

1. Unit to unit sections of yard piping.
2. Valves and vaults.
3. Pipe tunnels and galleries.
4. Filter and filter backwash piping.

### 382. Outfall Sewer Lines

This account shall include the installed cost of sewer line carrying effluent from treatment facility to point of discharge. Includible in this account would be headwall or outlet.

## WASTEWATER UTILITY PLANT ACCOUNTS

### 389. Other Plant and Miscellaneous Equipment

This account shall include the cost installed of all other intangible, collection system pumping, treatment and disposal, reclaimed water treatment and reclaimed water distribution plant not provided for in the foregoing accounts.

### 390. Office Furniture and Equipment

A. This account shall include the cost of office furniture and equipment owned by the utility and devoted to utility service, and not permanently attached to buildings, except the cost of such furniture and equipment which the utility elects to assign to other plant accounts on a functional basis. A sample of items to be included in this account are listed below:

1. Book cases and shelves.
2. Desk, chairs, and desk equipment.
3. Drafting room equipment.
4. Electronic data processing equipment.
5. Filing, storage and other cabinets.
6. Floor covering.
7. Library and library equipment.
8. Mechanical office equipment such as accounting machines, typewriters, etc.
9. Safes.
10. Tables.

B. If the utility has equipment includible in this account at more than one location, separate records shall be maintained for each location.

### 391. Transportation Equipment

This account shall include the cost of transportation vehicles used for utility purposes. A sample of items to be included in this account are listed below:

1. Airplanes.
2. Automobiles.
3. Bicycles.
4. Electrical vehicles.
5. Motor trucks.
6. Motorcycles.
7. Repair cars or trucks.
8. Tractors and trailers.
9. Other transportation vehicles.

## WASTEWATER UTILITY PLANT ACCOUNTS

### 392. Stores Equipment

A. This account shall include the cost of equipment used for the receiving, shipping, handling and storage of materials and supplies.

B. If the utility has equipment includible in this account at more than one location, separate records shall be maintained for each location. A sample of items to be included in this account are listed below:

1. Chain falls.
2. Counters.
3. Cranes (portable).
4. Elevating and stacking equipment (portable).
5. Hoists.
6. Lockers.
7. Scales.
8. Shelving.
9. Storage bins.
10. Trucks, hand and power driven.
11. Wheelbarrows.

### 393. Tools, Shop and Garage Equipment

This account shall include the cost of tools, implements, and equipment used in construction, repair work, general shops and garages and not specifically provided for or includible in other accounts. A sample of items to be included in this account are listed below:

1. Air compressors.
2. Anvils.
3. Automobile repair shop equipment.
4. Battery charging equipment.
5. Belts, shafts and countershafts.
6. Boilers.
7. Cable pulling equipment.
8. Concrete mixers.
9. Drill presses.
10. Derricks.
11. Electric equipment.
12. Engines.
13. Forges.
14. Furnaces.
15. Foundations and settings specially constructed for and not expected to outlast the equipment for which provided.
16. Gas producers.
17. Gasoline pumps, oil pumps and storage tanks.
18. Greasing tools and equipment.

## WASTEWATER UTILITY PLANT ACCOUNTS

19. Hoists.
20. Ladders.
21. Lathes.
22. Machine tools.
23. Motor driven tools.
24. Motors.
25. Pipe threading and cutting tools.
26. Pneumatic tools.
27. Pumps.
28. Riveters.
29. Smithing equipment.
30. Tool racks.
31. Vises.
32. Welding apparatus.
33. Work benches.

### 394. Laboratory Equipment

A. This account shall include the cost installed of laboratory equipment used for general laboratory purposes and not specifically provided for or includible in other departmental or functional plant accounts. A sample of items to be included in this account are listed below:

1. Autoclaves.
2. Barometers.
3. Cameras.
4. Centrifuge.
5. Distilling apparatus.
6. Furnaces.
7. Microscopes.
8. Ovens.
9. Pitometers.
10. Rain gauges.
11. Refrigerators.
12. Scales.
13. Sterilizers.
14. Stop watches.
15. Testing machines.
16. Therometers.
17. Voltmeters.
18. Other bacteriological, electric, chemical hydraulic or research equipment.

B. If the utility has equipment includible in this account at more than one location, separate records shall be maintained for each location.

## WASTEWATER UTILITY PLANT ACCOUNTS

### 395. Power Operated Equipment

This account shall include the cost of power operated equipment used in construction or repair work exclusive of equipment includible in other accounts. Include, also, the tools and accessories acquired for use with such equipment and the vehicle on which such equipment is mounted. A sample of items to be included in this account are listed below:

1. Air compressors, including driving unit and vehicle.
2. Back filling machines.
3. Boring machines.
4. Bulldozers.
5. Cranes and joists.
6. Diggers.
7. Engines.
8. Pile drivers.
9. Pipe cleaning machines.
10. Pipe coating or wrapping machines.
11. Tractors - Crawler type.
12. Trenchers.
13. Other power operated equipment.

Note:--It is intended that this account include only such large units as are generally self-propelled or mounted on moveable equipment.

### 396. Communication Equipment

This account shall include the cost installed of telephone, telegraph and wireless equipment for general use in connection with utility operations. A sample of items to be included in this account are listed below:

1. Antennae.
2. Booths.
3. Cables.
4. Distribution boards.
5. Extension cords.
6. Gongs.
7. Handsets, manual and dial.
8. Insulators.
9. Intercommunicating sets.
10. Loading coils.
11. Operators desks.
12. Poles and fixtures used wholly for telephone and telegraph wires.
13. Radio transmitting and receiving sets.
14. Remote control equipment and lines.
15. Sending keys.
16. Storage batteries.

## WASTEWATER UTILITY PLANT ACCOUNTS

17. Switchboards.
18. Teleautograph circuit connections.
19. Telegraph receiving sets.
20. Telephone and telegraph circuits.
21. Testing instruments.
22. Towers.
23. Underground conduit used wholly for telephone or telegraph wires and cable wires.

### 397. Miscellaneous Equipment

This account shall include the cost of equipment, apparatus, etc., used in utility operations, and which is not includible in any other account. A sample of items to be included in this account are listed below:

1. Hospital and infirmary equipment.
2. Kitchen equipment.
3. Recreation equipment.
4. Radios.
5. Restaurant equipment.
6. Soda fountains.
7. Operator's cottage furnishings.
8. Electric signs advertising the corporate name or symbol, plant or facility name, or otherwise serving only the general purpose of acquainting the public with the facilities and services of the utility.
9. Other miscellaneous equipment.

Note:--Miscellaneous equipment of the nature indicated above wherever practicable shall be included in the utility plant accounts on a functional basis.

### 398. Other Tangible Plant

This account shall include the cost of tangible utility plant not provided for elsewhere.

PUBLIC UTILITY CODE (66 PA.C.S.) - VALUATION OF ACQUIRED WATER  
AND WASTEWATER SYSTEMS FOR RATEMAKING PURPOSES

Act of Apr. 14, 2016, P.L. 76, No. 12

Cl. 66

Session of 2016

No. 2016-12

HB1326

AN ACT

Amending Title 66 (Public Utilities) of the Pennsylvania Consolidated Statutes, in rates and distribution systems, providing for valuation of acquired water and wastewater systems for ratemaking purposes.

The General Assembly of the Commonwealth of Pennsylvania hereby enacts as follows:

Section 1. Title 66 of the Pennsylvania Consolidated Statutes is amended by adding a section to read:

§ 1329. Valuation of acquired water and wastewater systems.

(a) Process to establish fair market value of selling utility.--Upon agreement by both the acquiring public utility or entity and the selling utility, the following procedure shall be used to determine the fair market value of the selling utility:

(1) The commission will maintain a list of utility valuation experts from which the acquiring public utility or entity and selling utility will choose.

(2) Two utility valuation experts shall perform two separate appraisals of the selling utility for the purpose of establishing its fair market value.

(3) Each utility valuation expert shall determine fair market value in compliance with the Uniform Standards of Professional Appraisal Practice, employing the cost, market and income approaches.

(4) The acquiring public utility or entity and selling utility shall engage the services of the same licensed engineer to conduct an assessment of the tangible assets of the selling utility. The assessment shall be incorporated into the appraisal under the cost approach required under paragraph (3).

(5) Each utility valuation expert shall provide the completed appraisal to the acquiring public utility or entity and selling utility within 90 days of execution of the service contract.

(b) Utility valuation experts.--

(1) The utility valuation experts required under subsection (a) shall be selected as follows:

(i) one shall be selected by the acquiring public utility or entity; and

(ii) one shall be selected by the selling utility.

(2) The utility valuation experts shall not:

(i) derive any material financial benefit from the sale of the selling utility other than fees for services rendered; or

(ii) be an immediate family member of a director, officer or employee of either the acquiring public utility, entity or selling utility within a 12-month period of the date of hire to perform an appraisal.

(3) Fees paid to utility valuation experts may be included in the transaction and closing costs associated with acquisition by the acquiring utility or entity. Fees eligible for inclusion may be of an amount not exceeding 5% of the fair

market value of the selling utility or a fee approved by the commission.

(c) Ratemaking rate base.--The following apply:

(1) The ratemaking rate base of the selling utility shall be incorporated into the rate base of:

- (i) the acquiring public utility during the acquiring public utility's next base rate case; or
- (ii) the entity in its initial tariff filing.

(2) The ratemaking rate base of the selling utility shall be the lesser of the purchase price negotiated by the acquiring public utility or entity and selling utility or the fair market value of the selling utility.

(d) Acquisitions by public utility.--The following apply:

(1) If the acquiring public utility and selling utility agree to use the process outlined in subsection (a), the acquiring public utility shall include the following as an attachment to its application for commission approval of the acquisition filed pursuant to section 1102 (relating to enumeration of acts requiring certificate):

(i) Copies of the two appraisals performed by the utility valuation experts under subsection (a).

(ii) The purchase price of the selling utility as agreed to by the acquiring public utility and selling utility.

(iii) The ratemaking rate base determined pursuant to subsection (c) (2).

(iv) The transaction and closing costs incurred by the acquiring public utility that will be included in its rate base.

(v) A tariff containing a rate equal to the existing rates of the selling utility at the time of the acquisition and a rate stabilization plan, if applicable to the acquisition.

(2) The commission shall issue a final order on an application submitted under this section within six months of the filing date of an application meeting the requirements of subsection (d) (1).

(3) If the commission issues an order approving the application for acquisition, the order shall include:

(i) The ratemaking rate base of the selling utility, as determined under subsection (c) (2).

(ii) Additional conditions of approval as may be required by the commission.

(4) The tariff submitted pursuant to subsection (d) (1) (v) shall remain in effect until such time as new rates are approved for the acquiring public utility as the result of a base rate case proceeding before the commission. The acquiring public utility may collect a distribution system improvement charge during this time, as approved by the commission under this chapter.

(5) The selling utility's cost of service shall be incorporated into the revenue requirement of the acquiring public utility as part of the acquiring utility's next base rate case proceeding. The original source of funding for any part of the water or sewer assets of the selling utility shall not be relevant to determine the value of said assets.

(e) Acquisitions by entity.--An entity shall provide all the information required by subsection (d) (1) to the commission as an attachment to its application for a certificate of public convenience filed pursuant to section 1102.

(f) Postacquisition projects.--The following apply:

(1) An acquiring public utility's postacquisition improvements that are not included in a distribution improvement charge shall accrue allowance for funds used during construction after the date the cost was incurred until the asset has been in service for a period of four years or until

the asset is included in the acquiring public utility's next base rate case, whichever is earlier.

(2) Depreciation on an acquiring public utility's postacquisition improvements that have not been included in the calculation of a distribution system improvement charge shall be deferred for book and ratemaking purposes.

(g) Definitions.--The following words and phrases when used in this section shall have the meanings given to them in this section unless the context clearly indicates otherwise:

"Acquiring public utility." A water or wastewater public utility subject to regulation under this title that is acquiring a selling utility as the result of a voluntary arm's-length transaction between the buyer and seller.

"Allowance of funds used during construction." An accounting practice that recognizes the capital costs, including debt and equity funds that are used to finance the construction costs of an improvement to a selling utility's assets by an acquiring public utility.

"Entity." A person, partnership or corporation that is acquiring a selling utility and has filed or whose affiliate has filed an application with the commission seeking public utility status pursuant to section 1102.

"Fair market value." The average of the two utility valuation expert appraisals conducted under subsection (a) (2).

"Ratemaking rate base." The dollar value of a selling utility which, for postacquisition ratemaking purposes, is incorporated into the rate base of the acquiring public utility or entity.

"Rate stabilization plan." A plan that will hold rates constant or phase rates in over a period of time after the next base rate case.

"Selling utility." A water or wastewater company located in this Commonwealth, owned by a municipal corporation or authority that is being purchased by an acquiring public utility or entity as the result of a voluntary arm's-length transaction between the buyer and seller.

"Utility valuation expert." A person hired by an acquiring public utility and selling utility for the purpose of conducting an economic valuation of the selling utility to determine its fair market value.

Section 2. This act shall take effect in 60 days.

APPROVED--The 14th day of April, A.D. 2016.

TOM WOLF

