

# APPENDIX D: MATW INFORMATION





P.O. Box 504 Clarks Summit, PA 18411 (570) 851-2804 www.hrg-inc.com

MARCH 2022
CHAPTER 94 WASTELOAD MANAGEMENT REPORT FOR
CALENDAR YEAR 2021
MUNICIPAL AUTHORITY OF THE TOWNSHIP OF WESTFALL PIKE COUNTY, PENNSYLVANIA
HRG Project No. 003054.0440, Phase 21

## TABLE OF CONTENTS

**Executive Summary** 

SECTION 1	Chapter 94 Wasteload Management Report
SECTION 2	Attachments to Chapter 94 Wasteload Management Report
	Attachment A – Hydraulic Loading Graph and Data
	Attachment B – Condition of Existing Pump Station
	Attachment C – Sewage Sludge Management Inventory
	Attachment D – Service Area Map



#### **EXECUTIVE SUMMARY**

#### **General Information**

Westfall Township comprises approximately 31 square miles and is located in the eastern portion of Pike County, Pennsylvania. In February of 2002, Westfall Township took over the Delaware Valley Utilities, Inc. Wastewater Treatment Facility, located near the Inn at Hunts Landing (Best Western). The Westfall Township Act 537 Plan designates the Hunts Landing treatment facility as a regional wastewater treatment facility.

The existing wastewater facilities, formerly of the Delaware Valley Utilities, Inc., included a collection system with force mains and pump stations and a 95,000 gallons per day (gpd) Extended Aeration wastewater treatment facility with a discharge to the Delaware River. The existing system was regulated by the Public Utilities Commission prior to February 2002.

The Municipal Authority of the Township of Westfall (Authority) began planning for an upgrade of the facility to a 300,000 gpd Sequence Batch Reactor (SBR) system in May 2004 and the facility came on-line in October of 2005. Starting in 2006, planning activities occurred, due to the Katz Court Order in 2005, that expanded the existing facility to 0.820 million gallons a day (mgd); however, since the time of flow approvals, several significant events (Township Bankruptcy and the revision of the Katz Court Order) have occurred which has reduced the needed capacity to approximately 0.374 mgd. The permitting of the expansion to 0.820 mgd was approved by the Pennsylvania Department of Environmental Protection (DEP) and the Delaware River Basin Commission (DRBC), but was reduced to 0.374 mgd on September 21, 2011 with the DRBC Docket approval that established a projected flow of 0.374 mgd. In January of 2012 the DEP approved the projected flow of 0.374 mgd with the approval of the revised Act 537 Special Study.

The Authority owns the wastewater collection, conveyance, and treatment facilities located in Westfall Township (Township), Pike County, Pennsylvania. The Authority's public sanitary sewer system consists primarily of a force main conveyance system with six (6) pump stations, with force mains ranging from 4" through 8" in diameter. In addition, there are numerous privately-owned pump stations that tie into the Authority's collection and conveyance system. A map of the Authority's sewer system is attached as Attachment E.

The Authority's SBR wastewater treatment plant (WWTP) operates under the NPDES Permit No. PA-0061611, that was most recently renewed on September 1, 2019 and the DRBC Docket No. 0-2002-023 CP-6, the DRBC docket renewal was submitted in March 13, 2019. The WWTP utilizes an SBR process, which contains two reactors that alternate in receiving and treating wastewater. The SBR cycles; including anoxic fill, aerated react, settle, decant and idle; are automatically controlled by a programmable logic controller (PLC). Each reactor is equipped with a motive pump to mix and help aerate the reactor volume. Three blowers are installed and two of them are normally in operation for air supply to the reactors. Alum is fed into the SBR for the phosphorus removal process that also provides enhanced settling.

In 2020, there was 92 new EDUs connected to the treatment and conveyance systems. Total number of EDUs connected at the end of 2021 was 1127 EDUs. Westfall Township, Milford Township, Matamoras and Milford Borough are currently completing a regional Act 537 plan anticipated to add an approximate 688 EDUs to the system over the next 5 to 8-years. The flow projections shown in Attachment A reflect the approximate years the anticipated EDUs will come on-line.

#### Hydraulic and Organic Loadings

Per the analyses completed in conjunction with this Report, no hydraulic or organic overloads are expected for the Authority's system for the next five years. There were no sewer overflows in 2021.

#### **Industrial Wastes**

No industrial wastes are presently discharged to the Westfall Township sewer system. Article IX of the Authority's Rules and Regulations governs the admission of industrial wastes into the sewer system. The most recent adoption of the Rules and Regulations was November 1, 2012.





**pennsylvania** DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

# CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

#### For Calendar Year: 2021

Permittee is owner and/or operator of a POTW or other sewage treatment facility

Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION								
Permittee Name:	Municipal Authority of the Township of Westfall	Permit No.:	PA0061611					
Mailing Address:	155 Westfall Town Drive, P.O. Box 525	Effective Date:	September 1, 2019					
City, State, Zip:	Matamoras, PA 18336	Expiration Date:	August 31, 2024					
Contact Person:	A. William Schneider	Renewal Due Date:	March 4, 2024					
Title:	Chairman	Municipality:	Westfall Township					
Phone:	570.491.2488	County:	Pike County					
Email:	wmaplant@verizon.net	Consultant Name:	Herbert, Rowland & Grubic, Inc.					

### CHAPTER 94 REPORT COMPONENTS

 Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (25 Pa. Code § 94.12(a)(1))

#### Check the appropriate boxes:

- Line graph for flows attached (Attachment A)
- DEP Chapter 94 Spreadsheet used (Attachment A)
- Section 1 is not applicable (report is for a collection system).

Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (25 Pa. Code § 94.12(a)(2))

#### Check the appropriate boxes:

- Line graph for organic loads attached (Attachment A)
- DEP Chapter 94 Spreadsheet used (Attachment A)
  - Section 2 is not applicable (report is for a collection system).

3. If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))

The projected hydraulic and organic loadings for the next five years are included in this report as Attachment A. As is evident from the DEP Chapter 94 spreadsheet and graphs, no overloads are expected at the wastewater treatment plant.

4. Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))

#### Check the appropriate boxes:

- Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (Attachment )
- List summarizing each extension or project attached (Attachment )
- Schedules describing how each project will be completed over time and effects attached (Attachment )

#### Comments:

No sewer extensions were constructed in 2021.

The Eastern Pike County Regional Act 537 Plan was prepared throughout 2019 and 2020. The Plan showing planned sewer extensions was submitted to DEP for review in June of 2021.

5. Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))

The Authority's wastewater collection, conveyance system is operated and maintained by M&S Septic. The treatment facilities are operated and maintained by Camo Pollution Control Inc. (Camo).

Standard preventative maintenance was completed by Camo on the treatment plant facilities, including changing oil, air filters, and greasing the motors on all blowers. Emergency backup generators were serviced, and the ultraviolet lamps were replaced. All other maintenance work on the collection system and at the WWTP was considered routine in nature. See Attachment B for more details.

6.	Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))								
	<ul> <li>Check the appropriate boxes:</li> <li>System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.</li> <li>System did not experience capacity-related bypassing, SSOs or surcharging during the report year.</li> </ul>								
	Comments:								
	Io SSOs, capacity-related bypassing, or surcharging occurred during 2021.								
7.	ttach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum umping rate with present maximum flows and the projected 2-year maximum flows for each station. ( <u>25 Pa. Code §</u>								
	$\frac{4.12(a)(7)}{2}$								
	The collection system does not contain pump stations								
	The collection system does contain pump stations (Number – 6)								
	Discussion of condition of each pump station attached ( <b>Attachment B</b> )								
8.	the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the nformation listed below. (25 Pa. Code § 94.12(a)(8))								
	A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.								
	A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.								
	. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.								
	Check the appropriate boxes:								
	Industrial waste report as described in 8 a., b. and c. attached (Attachment )								
	Industrial pretreatment report as required in an NPDES permit attached (Attachment)								

9. Existing or Projected Overload.
Check the appropriate boxes:            This report demonstrates an existing hydraulic overload condition.             This report demonstrates a projected hydraulic overload condition.             This report demonstrates an existing organic overload condition.             This report demonstrates an existing organic overload condition.             This report demonstrates a projected organic overload condition.             This report demonstrates a projected organic overload condition.             If one or more boxes above have been checked, attach a Corrective Action Plan (CAP) to reduce or eliminate present or projected overloaded conditions under §§ 94.21 and/or 94.22 (relating to existing overload and projected overload). (25 Pa. Code § 94.12(a)(9))            Corrective Action Plan attached (Attachment )
10. Where required by the NPDES permit, attach a Sewage Sludge Management inventory that demonstrates a mass balance of solids coming in and leaving the facility over the previous calendar year.
Sewage Sludge Management Inventory attached (Attachment C)
11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).
Annual CSO Report attached (Attachment )
<ol> <li>For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (<u>25 Pa. Code § 94.13(b)</u>)</li> </ol>
Flow calibration report attached (Attachment)
RESPONSIBLE OFFICIAL CERTIFICATION
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).
Chad Stewart
Name of Responsible Official Signature
570-491-2488 <u>7/30/22</u>
Date

#### PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Dylan M. Willow

m M Will

Name of Preparer

Signature

3/31/2022

570-524-6744

Date

Telephone No.

- 5 -



DEPARTME	NT OF ENVIRONM	IENTAL					Sewage T	reatment	Plan Re	eporting Year:	2021
Facility Name:	Municipal Auth	nority of the To	wnship of West	fall		Permit No.: P	40061611		Р	ersons/EDU:	3.5
Existing Hydraulic	Design Capac	ity:	0.374 M	GD		Existing Organic De	sign Capacit	y:	1,081 II	os BOD5/day	
Upgrade Planned i	n Next 5 Years	;?	NO	Year:		Upgrade Planned in	Next 5 Years	?	NO	Year:	
Future Hydraulic D	esign Capacit	у:	М	GD		Future Organic Desi	gn Capacity:		lł	os BOD5/day	
	Mon	thly Average	Flows for Pas	t Five Years (N	(GD)		Monthly	Average BOD	5 Loads for P	ast Five Years	(lbs/day)
Month	2017	2018	2019	2020	2021	Month	2017	2018	2019	2020	2021
January	0.0691	0.0783	0.0646	0.0662	0.06139	January	177	212	155	160	213
February	0.0743	0.0783	0.0688	0.0686	0.06113	February	162	235	182	162	202
March	0.0724	0.0865	0.0721	0.0641	0.07051	March	252	252	162	143	218
April	0.0816	0.0824	0.0718	0.0514	0.07103	April	288	241	192	129	214
May	0.0816	0.086	0.0738	0.062	0.07853	May	347	246	193	177	262
June	0.089	0.0905	0.0796	0.074	0.08031	June	297	288	206	225	219
July	0.0906	0.093	0.0826	0.082	0.08565	July	257	266	196	269	240
August	0.0875	0.0897	0.0788	0.0824	0.08638	August	278	290	352	272	233
September	0.084	0.0852	0.0778	0.0749	0.0854	September	322	332	223	266	227
October	0.0843	0.0725	0.0773	0.0702	0.08145	October	298	278	200	224	190
November	0.0739	0.0768	0.0713	0.0649	0.11153	November	281	259	145	176	198
December	0.0722	0.068	0.0715	0.0573	0.09357	December	239	198	145	210	264
Annual Ava	0.08	0.0823	0.0742	0.0682	0.08057	Annual Avg	267	258	196	201	223
Max 3-Mo Avo	0.089	0.0911	0.0803	0.0798	0.09552	Max Mo Avo	347	332	352	272	264
Max : Avg Ratio	1.11	1.11	1.08	1.17	1.19	Max : Avg Ratio	1.30	1.29	1.80	1.35	1.18
Existing EDUs	980.5	992.0	993.0	1,035.0	1,045.0	Existing EDUs	981	992	993	1,035	1,045
Flow/EDU (GPD)	81.6	83.0	74.7	65.9	77.1	Load/EDU	0.272	0.260	0.197	0.194	0.214
Flow/Capita (GPD)	23.3	23.7	21.3	18.8	22.0	Load/Capita	0.078	0.074	0.056	0.056	0.061
Exist Overload?	NO	NO	NO	NO	NO	Exist. Overload?	NO	NO	NO	NO	NO

Projected	Flows	for	Next Five	Years	(MGD)

	2022	2023	2024	2025	2026
New EDUs	20.0	32.0	32.0	402.0	402.0
New EDU Flow	0.0015	0.0024	0.0024	0.0307	0.0307
Proj. Annual Avg	0.07855	0.08095	0.08335	0.11405	0.14475
Proj. Max 3-Mo Avg	0.08888	0.09159	0.09431	0.12904	0.16378
Proj. Overload?	NO	NO	NO	NO	NO

Show Precipitation Data on Hydraulic Graph?

	Total Monthly Precipitation for Past Five Years (Inches)							
Month	2017	2018	2019	2020	2021			
January								
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								
				•				

	Projected BOD5 Loads for Next Five Years (lbs/day)						
	2022	2023	2024	2025	2026		
New EDUs	20	32	32	402	402		
New EDU Load	4.549	7.279	7.279	91.436	91.436		
Proj. Annual Avg	234	241	248	340	431		
Proj. Max Avg	323	333	343	470	596		
Proj. Overload?	NO	NO	NO	NO	NO		







MONTH	Westfall Pump Station #1 <sup>(3)</sup>	Westfall Pump Station #2 <sup>(1)</sup>	River's Edge Pump Station	Katz Pump Station <sup>(2)</sup>	Rosetown Pump Station <sup>(2)</sup>	Westfall Sr. Apartments Pump Station
	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)
January	0	N/A	7,056	N/A	N/A	4,845
February	0	N/A	6,342	N/A	N/A	4,671
March	0	N/A	8,611	N/A	N/A	6,040
April	0	N/A	10,094	N/A	N/A	6,938
May	0	N/A	7,777	N/A	N/A	5,829
June	0	N/A	8,369	N/A	N/A	8,803
July	0	N/A	8,384	N/A	N/A	9,844
August	0	N/A	9,920	N/A	N/A	9,852
September	0	N/A	9,820	N/A	N/A	13,306
October	89,884	N/A	8,498	N/A	N/A	13,185
November	80,784	N/A	8,330	N/A	N/A	17,640
December	78,805	N/A	8,782	N/A	N/A	19,152
Average	83,158	N/A	8,509	N/A	N/A	10,034
Max Month	89,884	N/A	10,094	N/A	N/A	19,152
T.						
PROJ. 2021 MAX FLOWS	122,538	N/A	N/A	N/A	N/A	N/A
T.	-	· · · · · · · · · · · · · · · · · · ·			·	5
PS CAPACITY (GPD)	777.600	302.400	141.120	432.000	1.083.888	60.480

TABLE 1MUNICIPAL AUTHORITY OF THE TOWNSHIP OF WESTFALLPUMP STATION AVERAGE MONTHLY FLOWS

Note: 1. Hourly readings are not recorded at Westfall Pump Station #2

2. Katz and Rosetown Pump Station have been offline since their construction in 2011 and 2007, respectfully.

3. West Fall #1 went online on April 16, 2013.

#### **Condition of Existing Pump Stations**

During 2020, the Authority monitored and recorded wastewater flows conveyed through three of the six pump stations. Table 1 displays the flow metering results for each of the six (6) pumping stations. The monitored pump stations appeared to operate within the design capacity during 2020.

#### Westfall #1 Pump Station

The Westfall #1 Pump Station is located on Westfall Town Drive and conveys flow directly to the Authority's WWTP. The original pump station was decommissioned in 2012 and a newly constructed pump station was commissioned in April 2013. The new pump station has variable speed pumps with a design pumping rate of 250 to 840 gpm or 360,000 to 1,209,600 gpd.

#### Westfall #2 Pump Station

The Westfall #2 Pump Station is located along US Route 6/209 in the south branch collection system. The pump station was commissioned in the late 1980s/early 1990s and has a design pumping rate of 210 gpm or 302,400 gpd.

#### River's Edge Pump Station

The River's Edge Pump Station serves the River's Edge residential development. The pump station was commissioned in 2008 and had a design pumping rate of 60 gpm, or 86,400 gpd. In 2012, one pump at the station was replaced. Due to the old pump being discontinued, the new pump has a capacity of 98 gpm or 141,120 gpd.

#### Rosetown Pump Station

The Rosetown Pump Station was designed to serve the Katz Rosetown Estate property. The pump station was constructed in 2007 and has a design pumping rate of 752.7 gpm or 1,083,888 gpd. The pump station has been offline since construction in 2007 due to lack of development in the pump station service area and will continue to be in-operational until the Katz property is developed.

#### Katz Commercial Pump Station

The Katz Commercial Pump Station was designed to serve the Katz Commercial property. The pump station was constructed in 2011 and has variable speed pumps with a design pumping rate of 160 to 300 gpm or 230,400 to 432,000 gpd. The pump station has been offline since construction in 2011 due to lack of development in the pump station service area and will continue to be in-operational until the Katz commercial property is developed.

#### Westfall Sr. Apartments Pump Station

The Westfall Senior Apartments Pump Station serves the Westfall Senior Apartment Building Complex. The pump station was commissioned in 2017, containing duplex 2 HP Hydromatic pumps with design pumping rate of 42 gpm, or 60,480 gpd.





#### MUNICIPAL AUTHORITY OF THE TOWNSHIP OF WESTFALL - 2021 CHAPTER 94 WASTELOAD MANAGEMENT REPORT SEWAGE SLUDGE MANAGEMENT INVENTORY LIQUID SEWAGE SLUDGE HAULED OFF-SITE

Month	Average Annual Flow (MGD)	Average Influent BOD₅ (mg/L)	Average Effluent CBOD₅ (mg/L)	MLSS (mg/L)	Liquid Sludge(Gal)	Average Total Solids (%)	Dry Tons
January	0.0614	440	4.0		38,000	3.0	4.75
February	0.0611	399	4.3		0	3.0	0.00
March	0.0705	434	7.5		35,000	3.0	4.38
April	0.0710	389	4.0		36,000	3.0	4.50
Мау	0.0785	456	4.0		37,000	3.0	4.63
June	0.0803	360	4.0		42,000	3.0	5.25
July	0.0857	349	3.6		0	3.0	0.00
August	0.0864	343	3.0		0	3.0	0.00
September	0.0854	302	3.0		0	3.0	0.00
October	0.0815	345	3.3		58,000	3.0	7.26
November	0.1115	364	3.0		35,000	3.0	4.38
December	0.0936	339	38.9		0	3.0	0.00
Total	-	-	-	-	281,000	-	35.153
Average	0.0806	377	6.9		-	3.0	-
Minimum	0.0611	302	3.0	0	-	3.0	-
Maximum	0.1115	456	38.9	0	-	3.0	-







WASTEWATER TREATEMENT PLANT OUTFALL CAPACITY - 374,000 GPD **RENT ADF - 73.00** 

# LEGEND



• Authority Pump Station • Private Pump Station PVC Pipe 4" or Less 6" PVC Pipe 3"PVC Pipe

**SCALE:** 1" = 500' JOB#: 003054.9999 DATE: MARCH 2020



369 East Park Drive Harrisburg, PA 17111 (717) 564 -1121 Fax (717) 564 -1158 hrg@hrg-inc.com www.hrg-inc.com



P.O. Box 504 Clarks Summit, PA 18411 (570) 851-2804 www.hrg-inc.com

	MARCH 2020
WASTELOAD CALE MUNICIPA	CHAPTER 94 MANAGEMENT REPORT FOR ENDAR YEAR 2019
TOWN PIKE CO	ISHIP OF WESTFALL UNTY, PENNSYLVANIA
HRG Proje	ect No. 003054.0440, Phase 12

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	Attachment F – Constructed Sewer Extensions



#### **EXECUTIVE SUMMARY**

#### **General Information**

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In 2018, there was 1 new EDU connected to the treatment and conveyance systems.

Total number of EDUs connected at the end of 2018 was 992 EDUs.

#### Hydraulic and Organic Loadings

Per the analyses completed in conjunction with this Report, no hydraulic or organic overloads are expected for the Authority's system for the next five years. There were no sewer overflows in 2019.

#### **Industrial Wastes**

No industrial wastes are presently discharged to the Westfall Township sewer system. Article IX of the Authority's Rules and Regulations governs the admission of industrial wastes into the sewer system. The most recent adoption of the Rules and Regulations was November 1, 2012.





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

# CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

#### For Calendar Year: 2019

Permittee is owner and/or operator of a POTW or other sewage treatment facility

Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION						
Permittee Name:	Municipal Authority of the Township of Westfall	Permit No.:	PA0061611			
Mailing Address:	155 Westfall Town Drive, P.O. Box 525	Effective Date:	September 1, 2019			
City, State, Zip:	Matamoras, PA 18336	Expiration Date:	August 31, 2024			
Contact Person:	A. William Schneider	Renewal Due Date:	March 4, 2024			
Title:	Chairman	Municipality:	Westfall Township			
Phone:	570.491.2488	County:	Pike County			
Email:	wmaplant@verizon.net	Consultant Name:	Herbert, Rowland & Grubic, Inc.			

#### CHAPTER 94 REPORT COMPONENTS

 Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (25 Pa. Code § 94.12(a)(1))

#### Check the appropriate boxes:

- Line graph for flows attached (Attachment A)
- DEP Chapter 94 Spreadsheet used (Attachment A)
- Section 1 is not applicable (report is for a collection system).

 Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (25 Pa. Code § 94.12(a)(2))

#### Check the appropriate boxes:

- Line graph for organic loads attached (Attachment A)
- DEP Chapter 94 Spreadsheet used (Attachment A)
  - Section 2 is not applicable (report is for a collection system).

3.	If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))
	The projected hydraulic and organic loadings for the next five years are included in this report as Attachment A. As is evident from the DEP Chapter 94 spreadsheet and graphs, no overloads are expected at the Municpal Authority of the Township of Westfall's (MATW) wastewater treatment plant.
4.	Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4)) Check the appropriate boxes: Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (Attachment F) List summarizing each extension or project attached (Attachment ) Schedules describing how each project will be completed over time and effects attached (Attachment ) Comments:
5.	Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))
Th Pol	e Authority's wastewater collection, conveyance and treatment facilities are operated and maintained by Camo llution Control Inc. (Camo).
Sta oil, vio	undard preventative maintenance was completed by Camo on the treatment plant facilities, including changing , air filters, and greasing the motors on all blowers. The traveling bridge sand filter was greasted and the ultra det lamps were replaced.
All	other maintenance work on the collection system and at the WWTP was considered routine in nature.

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6.	Discuss the condition of the sewer system including portions of the system where conveyance capacity is being exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6))									
	Check the appropriate boxes:									
	<ul> <li>System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event.</li> <li>System did not experience capacity-related bypassing, SSOs or surcharging during the report year.</li> </ul>									
	Comments:									
	No SSOs, capacity-related bypassing, or surcharging occurred during 2019.									
7.	Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7))									
	Check the appropriate boxes:									
	The collection system does not contain pump stations									
	The collection system does contain pump stations (Number – 5)									
	Discussion of condition of each pump station attached ( <b>Attachment B</b> )									
8.	If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. ( <u>25 Pa. Code § 94.12(a)(8)</u> )									
	a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted.									
	b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year.									
	c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers.									
	Check the appropriate boxes:									
	Industrial waste report as described in 8 a., b. and c. attached (Attachment )									
	Industrial pretreatment report as required in an NPDES permit attached (Attachment)									

9. E	xisting or Projected Overload.	
	<ul> <li>Check the appropriate boxes:</li> <li>This report demonstrates an existing hydraulic overload</li> <li>This report demonstrates a projected hydraulic overload</li> <li>This report demonstrates an existing organic overload</li> <li>This report demonstrates a projected organic overload</li> </ul>	ad condition. ad condition. condition. d condition.
ן כ (	f one or more boxes above have been checked, attach a or projected overloaded conditions under §§ 94.21 and/or 25 Pa. Code § 94.12(a)(9))	Corrective Action Plan (CAP) to reduce or eliminate present 94.22 (relating to existing overload and projected overload).
1		
10. V	Where required by the NPDES permit, attach a Sewage palance of solids coming in and leaving the facility over the	Sludge Management inventory that demonstrates a mass previous calendar year.
[	Sewage Sludge Management Inventory attached (Atta	achment C)
11. F	For facilities with CSOs and where required by the NPDE combined sewer systems).	S permit, attach an Annual CSO Report (including satellite
[	Annual CSO Report attached (Attachment )	
12. F	For POTWs, attach a calibration report documenting that fleatibrated annually. (25 Pa. Code § 94.13(b))	ow measuring, indicating and recording equipment has been
[	Flow calibration report attached (Attachment D)	
	RESPONSIBLE OFFIC	IAL CERTIFICATION
I cer acco subr for g com and	tify under penalty of law that this document and all attack rdance with a system designed to assure that qualified nitted. Based on my inquiry of the person or persons wh athering the information, the information submitted is, to plete. I am aware that there are significant penalties for imprisonment for knowledge of violations. See 18 Pa. C.S	nments were prepared under my direction or supervision in personnel properly gathered and evaluated the information o manage the system or those persons directly responsible o the best of my knowledge and belief, true, accurate, and submitting false information, including the possibility of fine b. § 4904 (relating to unsworn falsification).
A. W	liliam Schneider	a- hillen Schneilen
Nam	e of Responsible Official	Signature
914-	443-2664	3-19-2020
Tele	phone No.	Date
Ļ		

#### PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. 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 knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Name of Preparer

Signature

**570.851.2804** Telephone No. 03/24/2020

Date



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

# CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT INSTRUCTIONS

This form has been developed to promote consistency in the development of annual municipal wasteload management reports ("Chapter 94 reports") required by 25 Pa. Code § 94.12. At least two copies of the complete report must be submitted to the appropriate regional office of the Department of Environmental Protection (DEP) by March 31.

Enter the calendar year that the report covers at the top of the form. Check the appropriate box to indicate whether the permittee is the owner/operator of a publicly owned treatment works (POTW) or other sewage treatment facility, or is the owner/operator of a sewage collection system that is tributary to a POTW owned/operated by a different entity.

#### **General Information**

Record the name of the permittee, the permittee's full mailing address, the permittee's contact person and this person's title, phone number and email address. Also record the permit number (NPDES or WQM), the effective date of permit coverage, the expiration date of permit coverage (if applicable), the date by which an application or NOI is due for reissuance (renewal) (if applicable), the municipality and county where the sewage treatment facility or collection system is located, and the name of the consultant (company name), if any, who assisted in the preparation of the form.

#### Chapter 94 Report Components

This section requests responses to 12 questions that, if applicable, must be addressed for a complete Chapter 94 report. Questions 1 - 9 and 12 come directly from the Chapter 94 regulations, i.e., 25 Pa. Code §§ 94.12(a)(1) - 94.12(a)(9) and 94.13(b). Some questions request that you check an appropriate box, attach the information requested, and specify the attachment number, while responses to other questions may be entered directly on the form.

For Questions 1 and 2, permittees may use DEP's Chapter 94 Spreadsheet to satisfy 25 Pa. Code §§ 94.12(a)(1) and 94.12(a)(2), respectively. DEP encourages use of the Chapter 94 Spreadsheet to provide consistency in the format and calculations associated with hydraulic and organic load evaluations (see <u>www.depweb.state.pa.us/chapter94</u>). If the Chapter 94 Spreadsheet was used, check the appropriate box(es) and attach printouts of the data and graphs to the Chapter 94 report. If this report is being used for a collection system only, these graphs are not needed.

For Question 6, if the permittee checks the box that there were capacity-related bypasses or SSOs during the report year, in general the box for existing hydraulic overload in Question 9 should be checked. If the permittee checks the box in Question 6 because surcharging occurred during the report year, in general the box for projected hydraulic overload in Question 9 should be checked.

For Question 8, if the permittee has an EPA-approved pretreatment program, attachment of an annual pretreatment report as required in an NPDES permit will satisfy the requirement for an industrial waste report.

For Question 10, if a permit requires a "Sewage Sludge Management" inventory, check the appropriate box if the inventory is attached to the Chapter 94 report.

For Question 11, if an NPDES permit (individual permit or, for satellite collection systems, PAG-06 General NPDES permit coverage) requires an Annual CSO (Status) report, attach the CSO report to the Chapter 94 report and check the appropriate box.

#### **Certification**

In accordance with 25 Pa. Code § 94.12(a), both the individual who prepared the report and (a responsible official of) the permittee must sign the report. The term "responsible official" for a municipality is a principal executive officer or ranking elected official.

Questions on the completion of Chapter 94 reports may be directed to DEP's Bureau of Point and Non-Point Source Management at (717) 787-8184 or to the appropriate DEP regional office (contact information available by visiting DEP's website, <u>www.depweb.state.pa.us</u>, and selecting Regional Resources).



penn	sylvania	a				P	ADEP Cha	pter 94 Sp	orea		
DEPARTME	NT OF ENVIRON	MENTAL					Sewa	ge Treatm	ent F	eporting Year:	2019
Facility Name:	Municipal Aut	hority fo the To	wnship of We	stfall		Permit No.: P	A0061611	1		Persons/EDU:	3.5
								·			
Existing Hydraulic	Existing Hydraulic Design Capacity: 0.374 MGD Existing Organic Design Cap			sign Capacit	y:	625	lbs BOD5/day				
Upgrade Planned i	n Next 5 Years	5?	NO	Year:		Upgrade Planned in	Next 5 Years	s?	NO	Year:	
Future Hydraulic D	esign Capacit	acity: MGD Future		Future Organic Des	gn Capacity:			lbs BOD5/day			
	Mor	thly Average	Flows for Pas	st Five Years (N	<u>IGD)</u>		Monthly	Average BOD	5 Loads for	Past Five Years	(lbs/day)
Month	2015	2016	2017	2018	2019	Month	2015	2016	2017	2018	2019
January	0.068	0.0613	0.0691	0.0783	0.0646	January	253	343	177	212	288
February	0.0753	0.0651	0.0743	0.0783	0.0688	February	223	338	162	235	317
March	0.0804	0.0614	0.0724	0.0865	0.0721	March	247	186	252	252	270
April	0.0737	0.0695	0.0816	0.0824	0.0718	April	313	254	288	241	321
May	0.0848	0.0781	0.0816	0.086	0.0738	May	193	245	347	246	313
June	0.0826	0.0807	0.089	0.0905	0.0796	June	311	246	297	288	311
July	0.0871	0.0869	0.0906	0.093	0.0826	July	440	292	257	266	285
August	0.0814	0.0879	0.0875	0.0897	0.0788	August	295	235	278	290	535
September	0.0809	0.0795	0.084	0.0852	0.0778	September	273	217	322	332	343
October	0.0756	0.0794	0.0843	0.0725	0.0773	October	260	276	298	278	311
November	0.0682	0.0752	0.0739	0.0768	0.0713	November	174	211	281	259	244
December	0.065	0.0714	0.0722	0.068	0.0715	December	212	197	239	198	244
Annual Avg	0.0769	0.0747	0.08	0.0823	0.0742	Annual Avg	266	253	267	258	315
Max 3-Mo Avg	0.0848	0.0852	0.089	0.0911	0.0803	Max Mo Avg	440	343	347	332	535
Max : Avg Ratio	1.10	1.14	1.11	1.11	1.08	Max : Avg Ratio	1.65	1.35	1.30	1.29	1.70
Existing EDUs	958.0	969.0	980.5	992.0	993.0	Existing EDUs	958	969	981	992	993
Flow/EDU (GPD)	80.3	77.1	81.6	83.0	74.7	Load/EDU	0.278	0.261	0.272	0.260	0.317
Flow/Capita (GPD)	22.9	22.0	23.3	23.7	21.3	Load/Capita	0.079	0.075	0.078	0.074	0.091
Exist. Overload?	NO	NO	NO	NO	NO	Exist. Overload?	NO	NO	NO	NO	NO
		Projected Flo	ws for Next Fi	ve Years (MGE	<u>))</u>		Proje	ected BOD5 Lo	oads for Nex	t Five Years (Ibs	s/day)
	2020	2021	2022	2023	2024		2020	2021	2022	2023	2024
New EDUs	20.0	40.0	140.0	140.0	140.0	New EDUs	20	40	140	140	140
New EDU Flow	0.0016	0.0032	0.0111	0.0111	0.0111	New EDU Load	5.555	11.109	38.882	38.882	38.882
Proj. Annual Avg	0.0792	0.0824	0.0935	0.1046	0.1157	Proj. Annual Avg	277	289	327	366	405

#### Show Precipitation Data on Hydraulic Graph?

0.0878

NO

Proj. Max 3-Mo Avg

Proj. Overload?

	Total Monthly Precipitation for Past Five Years (Inches)						
Month	2015	2016	2017	2018	2019		
January							
February							
March							
April							
May							
June							
July							
August							
September							
October							
November							
December							

0.0914

NO

0.1037

NO

0.116

NO

0.1283

NO

Proj. Max Avg

Proj. Overload?

405

NO

421

NO

478

NO

534

NO

591

NO







#### **Condition of Existing Pump Stations**

During 2019, the Authority monitored and recorded wastewater flows conveyed through three of the six pump stations. Based on the flow metering results, the maximum monthly flows were determined. Table 1 displays the flow metering results for each of the five (5) pumping stations. The monitored pump stations operated within the design capacity during 2019 and are able to handle projected flows.

#### Westfall #1 Pump Station

The Westfall #1 Pump Station is located on Westfall Town Drive and conveys flow directly to the Authority's WWTP. The original pump station was decommissioned in 2012 and a newly constructed pump station was commissioned in April 2013. The new pump station has variable speed pumps with a design pumping rate of 250 to 840 gpm or 360,000 to 1,209,600 gpd. There was one direct connection to the Westfall #1 Pump Station in 2018. There are currently 747.5 EDUs directly connected to the pump station. There are 32 EDUs projected to connect to the direct service area of this station in 2019, respectively. Please note that all other Authority owned pump stations are tributary to this station so any EDUs connected to those stations will increase the flow through the Westfall #1 Pump Station.

#### Westfall #2 Pump Station

The Westfall #2 Pump Station is located along US Route 6/209 in the south branch collection system. The pump station was commissioned in the late 1980s/early 1990s and has a design pumping rate of 210 gpm or 302,400 gpd. Average Daily Flows are unavailable at the pump station due to lack of sewage metering at the station. There are currently 314 EDUs connected to the pump station. No EDUs are expected to be added to this pump station in 2020.

#### River's Edge Pump Station

The River's Edge Pump Station serves the River's Edge residential development. The pump station was commissioned in 2008 and had a design pumping rate of 60 gpm, or 86,400 gpd. In 2012, one pump at the station was replaced. Due to the old pump being discontinued, the new pump has a capacity of 98 gpm or 141,120 gpd. There were no EDUs connected to the River's Edge Pump Station in 2019. There are currently 208 EDUs connected to the pump station.

#### Rosetown Pump Station

The Rosetown Pump Station was designed to serve the Katz Rosetown Estate property. The pump station was constructed in 2007 and has a design pumping rate of 752.7 gpm or 1,083,888 gpd. The pump station has been offline since construction in 2007 due to lack of development in the pump station service area and will continue to be in-operational until the Katz property is developed. No EDUs were added to this pump station in 2019.

#### Katz Commercial Pump Station

The Katz Commercial Pump Station was designed to serve the Katz Commercial property. The pump station was constructed in 2011 and has variable speed pumps with a design pumping rate of 160 to 300 gpm or 230,400 to 432,000 gpd. The pump station has been offline since construction in 2011 due to lack

of development in the pump station service area and will continue to be in-operational until the Katz commercial property is developed. No EDUs are expected to be added to this pump station's service area in 2020.

#### Westfall Sr. Apartments Pump Station

The Westfall Senior Apartments Pump Station serves the Westfall Senior Apartment Building Complex. The pump station was commissioned in 2017, containing duplex 2 HP Hydromatic pumps with design pumping rate of 42 gpm, or 60,480 gpd. 11.5 EDUs were connected to the Pump Station in 2017. There are currently 11.5 EDUs connected to the pump station. It is anticipated that no EDUs will be added to the pump station's service area in 2020.

# TABLE 1MUNICIPAL AUTHORITY OF THE TOWNSHIP OF WESTFALL2018 PUMP STATION AVERAGE MONTHLY FLOWS

MONTH	Westfall Pump Station #1 <sup>(4)</sup>	Westfall Pump Station #2 <sup>(1)</sup>	River's Edge Pump Station	Katz Pump Station <sup>(2)</sup>	Rosetown Pump Station <sup>(2)</sup>	Westfall Sr. Apartments Pump Station
	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)	(GPD)
January		N/A		N/A	N/A	
February		N/A		N/A	N/A	
March		N/A		N/A	N/A	
April		N/A		N/A	N/A	
May		N/A		N/A	N/A	
June		N/A		N/A	N/A	
July		N/A		N/A	N/A	
August		N/A		N/A	N/A	
September		N/A		N/A	N/A	
October		N/A		N/A	N/A	
November		N/A		N/A	N/A	
December		N/A		N/A	N/A	
Average	79,944	N/A	7,272	N/A	N/A	5,617
Max Month	0	N/A	0	N/A	N/A	0
PROJ. 2019 MAX FLOWS	122,538	N/A	8,609	N/A	N/A	N/A
PS CAPACITY (GPD)	777,600	302,400	141,120	432,000	1,083,888	60,480

Note: 1. Hourly readings are not recorded at Westfall Pump Station #2

2. Katz and Rosetown Pump Station have been offline since their construction in 2011 and 2007, respectfully.

3. West Fall #1 went online on April 16, 2013.





#### MUNICIPAL AUTHORITY OF THE TOWNSHIP OF WESTFALL - 2019 CHAPTER 94 WASTELOAD MANAGEMENT REPORT SEWAGE SLUDGE MANAGEMENT INVENTORY LIQUID SEWAGE SLUDGE HAULED OFF-SITE

Month	Average Annual Flow (MGD)	Average Influent BOD₅ (mg/L)	Average Effluent CBOD₅ (mg/L)	MLSS (mg/L)	Liquid Sludge(Gal)	Average Total Solids (%)	Dry Tons
January	0.0646	288	3.0		38,000	3.0	4.75
February	0.0688	317	3.0		35,000	3.0	4.38
March	0.0721	270	3.1		44,200	3.0	5.53
April	0.0718	321	3.0		52,000	3.0	6.51
Мау	0.0738	313	3.0		79,000	3.0	9.88
June	0.0796	311	3.0		0	3.0	0.00
July	0.0826	285	3.0		40,000	3.0	5.00
August	0.0788	535	4.0		76,000	3.0	9.51
September	0.0778	343	3.0		0	3.0	0.00
October	0.0773	311	3.0		36,000	3.0	4.50
November	0.0713	244	3.0		85,000	3.0	10.63
December	0.0715	244	3.1		42,000	3.0	5.25
Total	-	-	-	-	527,200	-	65.953
Average	0.0742	315	3.1		-	3.0	-
Minimum	0.0646	244	3.0	0	-	3.0	-
Maximum	0.0826	535	4.0	0	-	3.0	-



page 5

#### PID CONTROLS (973) 702-3354

#### CALIBRATION REPORT

CUSTOMER	Westfall MUA	INSTRUMENT
	Wastewater plant	MFGR.
_	Matamoras, PA	SERVICE
CAL. DATE	10-23-2019	RANGE
P.O. NO.	VerbalJoe N.	CAL BY

T. 14	SIROMENI	UILIASONIC FIOW MELET
й Л —	MFGR.	E&H Prosonic FMU861
	SERVICE	Effluent Flow
	RANGE	0 - 1 MGD

- 4 -

AL. BY Paul Lindner

INPUT	DESIRED OUTPUT	AS FOUND	AS LEFT In tolerance		
Head of Water	Readouts MGD / GPM	In tolerance			
3.6"	.033 / 23 GPM	<b>N</b>	.032 / 22 GPM		
9.0"	.326 / 226 GPM		.324 / 224 GPM		
Primary elemen	nt is 45 deg. V-Noto	h weir			
Depth reading	s taken with standar	d yardstick as con	ditions permitted		
Plant at no-f.	low condition, pumps	started to general	te flow.		

COMMENTS Prosonic reads .0xx MGD, Recorder reads GPM rate, GPDx1000 total

Recorder is Chessell 392. Pen travel and display correct over span.

Totalizer checked over 1 and 2 minute intervals, reads correctly.

Depth at weir for max. flow = 14.1"

	CALIBRATION STANDARD	NIST Cert. Date
FG./MODEL	Extech CMM-15 Process Calibrator	8-2018







WASTEWATER TREATEMENT PLANT OUTFALL CAPACITY - 374,000 GPD **RENT ADF - 73.00** 

# LEGEND



• Authority Pump Station • Private Pump Station PVC Pipe 4" or Less 6" PVC Pipe 3"PVC Pipe

**SCALE:** 1" = 500' JOB#: 003054.9999 DATE: MARCH 2020



369 East Park Drive Harrisburg, PA 17111 (717) 564 -1121 Fax (717) 564 -1158 hrg@hrg-inc.com www.hrg-inc.com





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	2012	2013	
Ordinary Income/Expense			
Income			
Inspection Fees Receivable			
Processing Fees-Commercial			
4000 · Wastewater Processing	443,000	441,000	· · · ·
Reserved Capacity Pre Paid Gall			
Sewage Charges			,
4010 · Residential Charges	120,000	137,000	
4020 · Utilized Reserve Capacity 4030 · Operator Fees	15,000	17,000	
4040 · Finance Charges			· · · · · · · · · · · · · · · · ·
Commercial Finance Charges	· · · · ·		 
Finance Charge Residential			
Returned Check Charges			
Total 4040 · Finance Charges	0	0	
4050 · Uncategorized Income			
Total Income	578,000	595,000	

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MESLEALL MUNICIPAL AUTHORITY

Page 1 of 4

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-	2012	2013	
Evnence			
Legislative Body			· · · · · · · · · · · · · · · · · · ·
5200 · Audit Fees	5,500	5.800	Contract + Audit
5201 · Bookkeeping Services	3,500	3.500	
5300 · Advertising	400	700	
5305 · Association Dues	706	706	n an
5328 · AutoFuel	1,350	1,500	
5310 · Education	500	500	
5315 · Engineering Services	15,000	20,000	Contract Plus
5330 · Insurance			
5210 · Bond Insurance for Employ	426	426	
5215 · Public Officials	1,999	2,475	
5335 · Workman's Compensation	470	500	
5330 · Insurance - Other			
Total 5330 · Insurance	2,895	3,401	
5340 · Legal Fees			
5345 · Inspection Fees			Will be offset by Fees Charged
5340 · Legal Fees -Other	11,500	18,500	Топу
Total 5340 · Legal Fees	11,500	18,500	
5350 · Mileage	300	100	
5355 · Office Expense	1,500	1,500	
5360 · Office equipment		500	Scanner & Back Up System
5365 · Office supplies	1,000	1,500	
5370 · Postage and Delivery	900	900	
5380 · Telephone	1,000	1,000	
5400 · Payroll Expenses			
5402 · Meeting Allowance	10,560	15,000	440X 24 + 4,440
5403 · Office Wages	20,800	17,000	
5405 · Payroll Taxes	2,500	2,500	
5400 · Payroll Expenses - Other			
Total 5400 · Payroll Expenses	33,860	34,500	
	<b>7</b> 0 011		
Total Legislative Body	79,911	94,607	

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Page 2 of 4

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-	2012	2013	
5205 Donation	1,000	1,000	Scholarship
5245 · Travel & Ent			
5250 · Meals			
3245 · Havel & Eht - Other	· · · ·		
Total 5245 · Travel & Ent	0	0	
Pump Stations & Lines			
Repairs-Lines	0	2,500	
Repairs-Pump Stations	0	4,000	
Electric-Pump Stations	1,160	1,185	
Total Pump Stations & Lines	1,160	7,685	
5480 · Plant Onertations			
5490 · Fuel Oil-Generator	1 000	750	· ···
5495 · Propane	2,600	2 500	· · · · · · · · · · · · · · · · · · ·
5500 · Electric-Plant	45,000	35.000	
5505 · Equipment Repairs	5,000	6.000	
5506 · Building Repairs	500	1,000	
5510 · Equipment Replacement	7,400	7,500	· · · · · · · · · · · · · · · · · · ·
5515 · Laboratory Fees	8,320	8,008	154x52
5525 · Operating Materials	25,000	28,000	
5530 · PA One Call Fees	0	0	
5535 · Plant Operator Fees	79,260	83,000	САМО
5545 · Sludge Removal	45,000	40,000	
5550 · Snow Removal	100	100	Sand for Driveway
5555 · Telephone	3,900	4,050	4 - Lines
5560 · Waste Removal	600	600	
5505 · Insurance-Plant	30,000	30,000	
5579 Miscellameous	1,000	1,000	
Total 5480 · Plant Opertations	254,680	247,508	·
6120 · Bank Service Charges	300	200	15v11 Canpage For
5225 · Mortgage Interest	83 400	135,000	25x12 Scanner Fee
6600 · Misc	00,400	100,000	
6800 · Depreciation Expense	205.339	200,000	
	605 700	200,000	
1 otal Expense	625,790	086,100	
Net Ordinary Income		-91,100	
Other Income/Expense			
7010 · Interest Income	200	200	
Net Income(Loss)	-47,590	-90,900	

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Page 3 of 4

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	2012	2013	-
Net Income(Loss)		-90,900	
	·	· ·	
Reverse Depreciation	205.339	200.000	
Mortgage Principal Payments	0	60,000	·
Mortgage New Borrow			
Grant Funds Receivable		678,250	
		070,209	··
Beng Lang		813,669	·
Kotz Commercial D		238,757	
<u>Natz Commercial Pump Station</u>			
Total Engineering-Projects	0	1,052,426	· ·
, <u> </u>	<u> </u>		
CASH INCREASE/(SHORTAGE)	157,749	49,100	

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MESTFALL MUNICIPAL AUTHORITY

Page 4 of 4

#### THE MUNCIPAL AUTHORITY OF THE TOWNSHIP OF WESTFALL STATEMENT OF NET POSITION FOR THE YEAR ENDED DECEMBER 31, 2018

Current Appets	
Cash and cash equivalents Accounts receivable	\$ 568,415 281,315
Prepaid insurance	164,453
Total Current Assets	1,033,473
Fixed Assets Equipment and furniture Sewage treatment plant Pump station Plant expansion - phase I Plant expansion - phase II Construction in progress	128,973 4,491,835 490,995 3,038,843 2,021,155 202,545 10,374,346
Less: accumulated depreciation	3,236,370
Total Fixed Assets	7,137,976
Total Assets	\$ 8,171,449
LIABILITIES AND NET POSIT	ION
Current Linkilling	
Accounts payable Payroll withholding taxes payable Unearned revenue Reserved capacity Current portion of long term debt Other liabilities	\$ 10,615 2,009 1,627 237,896 109,851 90
Total Current Liabilities	362,088
Long-Term Liabilities Note payable, net of current portion Total Liabilities	<u>4,281,064</u> 4,643,152
NET POSITION	
Invested in capital assets, net of related debt	2,747,061
Unrestricted	781,236
I UTAI IVEL FUSILION	3,528,297
Total Liabilities and Net Posiiton	\$ 8,171,449

The accompanying notes are an integral part of the financial statements.

#### THE MUNICIPAL AUTHORITY OF THE TOWNSHIP OF WESTFALL STATEMENT OF REVENUES, EXPENSES AND CHANGES IN NET POSITION FOR THE YEAR ENDED DECEMBER 31, 2018

Operating Revenues		
Consumer revenues	\$	619,638
Operating Expenses		
Accounting fees		8 554
Advertising		1 063
Bank charges		306
Depreciation expense		296 916
Donations		3,000
Dues		724
Employee benefits		8 682
Engineering		15 365
Equipment repairs		4 217
Insurance		39 397
Laboratory fees		8 338
Legal fees		12,880
Offsite collection expense		28 129
Office supplies		3.173
Operator fees		91,942
Operating materials		28,546
Payroll tax expense		2,872
Permits		1,118
Postage		1,141
Project expenses		6,530
Utilities		39,991
Repairs and maintenance - general		1,719
Wages and salaries		34,013
Sludge removal		54,120
Telephone		7,021
Vehicle expenses		1,017
Total Operating Expenses		700,774
Net Operating (Loss) Before Other Revenue and (Expenses)		(81,136)
Other Revenues and (Expenses)		
Interest income		4,219
Interest expense		(98.840)
Total Other Revenue and (Expenses)	- 	(94,621)
Change in Net Position		(175 757)
Net Position at Beginning of Year	3	704 054
Net Position at End of Year	\$ 3	.528,297
		and the second

The accompanying notes are an integral part of the financial statements.

#### THE MUNICIPAL AUTHORITY OF THE TOWNSHIP OF WESTFALL STATEMENT OF CASH FLOWS FOR THE YEAR ENDING DECEMBER 31, 2018

Cash Flows From Operating Activities		* <u>2</u> ;
Cash received from customers and grants	¢	100 200
Cash naid for operating expenses	φ	496,392
Cash paid for employment		(349,969)
Net Cash Provided by Operating Activities	1	(36,885)
Net Cash Fronded by Operating Activities		109,538
Cash Flows From Investing Activities		
Interest earned on bank balances		4,219
Net Cash Provided by Investing Activities		4,219
Cash Flows From Capital and Related Financing Activities		
Acquisition of fixed assets		(67,248)
Repayment portion of long-term debt		(94,674)
Interest paid		(98,840)
Net Cash (Used in) Capital and Related Financing Activities		(260,762)
Net (Decrease) in Cash		(147 005)
Cash and cash equivalents - January 1		715,420
Cash and cash equivalents - December 31	\$	568,415
Reconciliation of operating (loss) to net cash provided by operating activities:		
Operating (loss)	\$	(81,136)
Adjustments to reconcile operating (loss) to net cash provided by operating activities:		
Depreciation expense		296,916
(Increase) decrease in current assets:		
Accounts receivable		(123,246)
Loan receivable - Westfall Township		(164,453)
Prepaid insurance		(19,290)
Increase (decrease) in current liabilities:		
Accounts payable		5 015
Payroll withholding taxes payable		(329)
Unearned revenue		(325)
Reserved capacity		196 296
Other current liabilities		90
Total adjustments		190 674
Net cash provided by operating activities	\$	109,538

The accompanying notes are an integral part of the financial statements.

	2019	2020	
Ordinary Income/Expense			
Income			
Inspection Fees Receivable			
Processing Fees-Commercial			
4000 · Wastewater Processing	465.000	470,000	
Reserved Capacity Pre Paid Gallons			
Sewage Charges			
4010 · Residential Charges	157,000	158,000	
4020 · Utilized Reserve Capacity			
4030 · Operator Fees			and a second s
4040 · Finance Charges			
Commercial Finance Charges			
Finance Charge Residential			
Returned Check Charges			
Total 4040 · Finance Charges	0	0	
4050 · Uncategorized Income			n D
Total Income	622,000	628,000	

	2019	2020	
Expense			
Legislative Body			
5200 · Audit Fees	4.200	4 700	· · · · · · · · · · · · · · · · · · ·
5201 · Bookkeeping Services	4.200	4,200	
5300 · Advertising	900	1,200	
5305 · Association Dues	720	725	
5328 · Auto Fuel & Maint.	1,200	1.200	
5310 · Education	500	500	
5315 · Engineering Services	5,000	10.000	
5330 · Insurance			Contraction of Contra
5210 · Bond Insurance for Employ	275	275	
5215 · Public Officials	2,000	2.000	
5335 · Workman's Compensation	550	550	
5330 · Insurance -Health	8,200	9,500	
Total 5330 · Insurance	11,025	12.325	
5340 · Legal Fees			
5345 · Inspection Fees			Will be offset by Fees Charged
5340 · Legal Fees -Other	6,500	6,500	Tony
Total 5340 · Legal Fees	6,500	6,500	
5350 · Mileage	100	100	
5355 · Office Expense	2.000	2.000	
5360 · Office Equipment	750	2,500	Computer
5365 · Office Supplies	1,250	1.250	
5370 · Postage and Delivery	1,000	1,200	
5380 · Telephone	1,800	1,700	
5400 · Payroll Expenses		6	
5402 · Meeting Allowance	13.800	13,800	575 X 24
5403 · Office Wages	30.000	32.000	
5404 · Inspector Wages			
5405 · Payroll Taxes	3,200	3,400	
5400 · Payroll Expenses - Other			
Total 5400 · Payroll Expenses	47,000	49,200	
Fotal Legislative Body	88,145	99,200	

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# The Municipal Authority of the Township of Westfall 2020 FINAL BUDGET

	2019	2020		
5205 · Donation				
S205 Donation	1,500	1,500	Scholarship & Fire Depts	
5245 · Travel & Ent				
5250 · Meals				
5245 · Travel & Ent - Other				
Total 5245 · Travel & Ent		0		
Pump Stations & Lines	0	0		
Repairs-Lines	F 000	5 000		
Repairs & Insurance-Pump Stations	3,000	5,000		
Electric-Pump Stations	27,500	13,000		
Total Pump Stations & Lines	3,500	5,500		
	38,000	23,500		
5480 · Plant Operations				
5490 · Fuel Oil-Generator	500	600		
5495 · Propane	2,500	2,500		
5500 · Electric-Plant	32,000	34,000		
5505 · Equipment Repairs	4,000	4,000		
5506 · Building Repairs	4,000	4,000		
5510 · Equipment Replacement	5,000	5,000		
5515 · Laboratory Fees	8,500	9,000		
5520 · Landscaping	3,000	3,000		
5525 · Operating Materials	26,000	30,000		
5545 · Sludge Removal	91,400	95,000	CAMO + Diane Burger	
5550 · Snow Removal	55,000	55,000	Need Extra for Emergencies	
5555 · Telephone	5 500	100	Sand for Driveway	
5560 · Waste Removal	3,500	5,700	4 - Lines	
5565 · Insurance-Plant	38,000	1,500		
5567 · Plant Permits	1 650	40,500		
5579 · Miscellaneous	500	500		
Total 5480 · Plant Operations	278,950	291,600		
6120 · Bank Service Charges	350	350	25x12 Scanner Fee	
5225 · Mortgage Interest	113,000	120,500		
6600 · Misc.				
0800 · Depreciation Expense	299,000	299,000		
Total Expense	818,945	835,650		
Net Ordinary Income	-196,945	-207,650		
Other Income/Expense				
7010 · Interest Income	6,700	9,000		
Net Income(Loss)	-190,245	-198,650		

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	2019	2020	
Net Income(Loss)	-190 245	109 650	
	-190,243	-198,050	
Levelse Depreciation	299,000	299,000	)
Mortgage Principal Payments	97,377	89,300	)
Mortgage New Borrow			
Grant Funds Receivable			
Net Cash Flow Before Projects	11 378	11.050	
		11,050	
Projects			
Mae Lane	5,000		
SBR PLC	30,000		
Bertha Street	110,000		
537 Plan	40,000	46,000	SURVEY
rencing	0	16,000	32K OVER 2 YEARS
Fotal Engineering-Projects	185,000	62,000	
CASH INCREASE/(SHORTAGE)	172 600		