

**Application of Pennsylvania-American Water Company for Acquisition of
the Wastewater Assets of Royersford Borough
66 Pa. C.S. §1329
Application Filing Checklist – Water/Wastewater
Docket No. A-2020-3019634**

20. Proof of Compliance - provide proof of compliance with applicable design, construction and operation standards of DEP or of the county health department, or both, including:
- c. For **wastewater** system acquisitions, provide a copy of the Chapter 94 Municipal Wasteload Management Report that was most recently submitted to DEP.

AMENDED RESPONSE:

- c. Attached is the 2019 Chapter 94 Municipal Wasteload Management Report that was most recently submitted to DEP by Royersford Borough for the Borough's Wastewater Treatment Plant which is located on South First Avenue in Upper Providence Township, Montgomery County. This report is attached as **Amended Appendix A-20-c**.

**ROYERSFORD BOROUGH
MONTGOMERY COUNTY, PENNSYLVANIA**



**2019 MUNICIPAL WASTELOAD MANAGEMENT
ANNUAL CHAPTER 94 REPORT**

Submitted March 2020

Project 11045.06

Prepared By:



ARRO Consulting, Inc.
50 Berkshire Court, Suite 209
Wyomissing, Pennsylvania 19610

**2019 MUNICIPAL WASTELOAD
MANAGEMENT ANNUAL REPORT**


**ROYERSFORD BOROUGH
MONTGOMERY COUNTY, PENNSYLVANIA**

Project 11045.06

Preparer: ARRO Consulting, Inc.
50 Berkshire Court, Suite 209
Wyomissing, PA 19610

Douglas Kopp, E.I.T.

Permittee: Royersford Borough
300 Maint Street
Royersford, PA 19468



Michael A. Leonard
Public Works Director

TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1
2.0 DESCRIPTION OF TREATMENT PLANT	1
3.0 GENERAL DISCUSSION OF HYDRAULIC AND ORGANIC LOADINGS.....	3
4.0 EXTENSIONS AND CONNECTIONS TO THE SEWER SYSTEM.....	4
5.0 OPERATION AND MAINTENANCE PROGRAM.....	4
6.0 CONDITION AND CAPACITY OF THE SEWER SYSTEM.....	5
7.0 PUMP STATIONS	5
8.0 SOLIDS MANAGEMENT INVENTORY	6
9.0 INDUSTRIAL WASTE REPORT	6

ATTACHMENTS

- A. PaDEP Chapter 94 Report Form
- B. PaDEP Chapter 94 Spreadsheet
- C. Hydraulic & Organic Loading Graphs
- D. Projected EDUs
- E. Flow Meter Calibration Reports

1.0 INTRODUCTION

Chapter 94 of the Pennsylvania Department of Environmental Protection (PaDEP) Rules and Regulations stipulates that each municipality that utilizes a wastewater treatment plant shall submit a Municipal Wasteload Management Report to PaDEP on or before March 31 of each year for the previous calendar year.

The purpose of this report, as defined by PaDEP, is to require owners and operators of sewerage facilities to manage wasteloads discharged to the sewerage facilities in order to accomplish the following objectives:

1. Prevent the occurrence of overloaded sewerage facilities.
2. Limit additional extensions and connections to an overloaded sewer system or a sewer system tributary to an overloaded plant.

This report for the Borough of Myerstown has been prepared in accordance with the rules and regulations outlined in Chapter 94.

2.0 DESCRIPTION OF TREATMENT PLANT

Royersford Borough (Royersford) owns and operates the wastewater treatment and conveyance system that serves Royersford Borough, Montgomery County, Pennsylvania. In addition, Royersford maintains a sewer service agreement with Limerick Township, Montgomery County to receive and treat wastewater from a small portion of Limerick Township on the northeast corner of Royersford. There are also sixteen (16) connections in Upper Providence Township, Montgomery County on the southeast border with Royersford that are directly connected to Royersford's sewer system rather than being treated at the Lower Perkiomen Valley Regional Sewer Authority Oaks WWTP.

The Royersford wastewater treatment plant (WWTP) is located at 600 South First Avenue in Upper Providence Township, Montgomery County. The WWTP was originally constructed in 1948 and most recently completed an upgrade in 2010. The recent upgrade

Amended Appendix A-20-c

and expansion project included a new influent screen, new primary, secondary, and final effluent distribution boxes, conversion of one final settling tank to a primary clarifier, two new final clarifiers, new secondary pump station, replacement of pumps in the raw pump station, and modifications to yard piping and pumping systems. Subsequently, a new 3,000 gallon polyaluminum chloride storage tank was installed in 2011 for phosphorus removal.

Treatment unit processes consist of raw influent screening and pumping, primary clarification, primary and secondary trickling filtration, final clarification, chlorination and dechlorination. The effluent is discharged to the Schuylkill River.

The Borough received a renewed NPDES Permit in 2018. The permit became effective on January 1, 2018, and expires on December 31, 2022. The existing permit effluent parameters are as follows:

<u>Parameters</u>	<u>Average Monthly Limits</u>
Flow	1,000,000 GPD
CBOD ₅	20 mg/L
Suspended Solids	20 mg/L
Fecal Coliform	200/100 ml
Ammonia Nitrogen	6.0 mg/L
Total Nitrogen	Report
Total Phosphorus	2.0 mg/L
Dissolved Oxygen	5.0 mg/L min.
pH	6.0 to 9.0
Total Dissolved Solids	1,000 mg/L
Total Residual Chlorine	0.5 mg/L
PCBs Dry Weather Analysis	Report Daily Max

The plant has been consistently producing a high quality effluent in compliance with the NPDES Permit.

Sludge is digested anaerobically and is transported offsite to other wastewater treatment facilities for dewatering and disposal. During 2019, approximately 344,500 gallons or 31.24 dry tons of anaerobically digested sludge at an average percent Total Solids content of 2.39% from the WWTP was transported to the Pottstown WWTP for dewatering and offsite disposal.

3.0 GENERAL DISCUSSION OF HYDRAULIC AND ORGANIC LOADINGS

The current NPDES Permit for the Royersford WWTP became effective January 1, 2018 and expires on December 31, 2022. The permitted hydraulic capacity is 1.0 MGD and the permitted organic capacity is 1,751 lbs BOD5 per day. The effluent limitations for Outfall 001 were determined using an effluent discharge reate of 0.7 MGD.

Using the PaDEP spreadsheets, the monthly average hydraulic loadings on the Royersford Borough WWTP for the years 2015 through 2019 are shown in the Hydraulic Loading graph in the Appendix. The hydraulic annual average flow for 2019 was 0.35 MGD. The maximum three-month average flow for 2019 was 0.556 MGD. The maximum three-month average flow was calculated from November 2018, December 2018, and January 2019. The projections indicate an overload condition is not expected to occur within the next five years.

Monthly average influent organic loadings to the WWTP for the years 2015 through 2019 are shown in the Organic Loading graph. The average annual influent organic loading for 2019 was 429 lbs/day of BOD5. The peak monthly influent loading was 676 lbs/day and occurred in January 2019. The observed data is well within the design parameters for the existing WWTF.

The hydraulic and organic loading projections are based on anticipated sewer connections in Royersford and the contributing municipalities. The anticipated connection schedule and hydraulic and organic loading projections for the next five years for the Borough of Royersford and the contributing municipalities are displayed in the PaDEP Chapter 94 spreadsheet and the Hydraulic Load and Organic Load graphs in the Appendix.

4.0 EXTENSIONS AND CONNECTIONS TO THE SEWER SYSTEM

There were no sewer extensions constructed in 2019. There are no known projects within that will require future extension to the existing sewer system. There were no new connections added to the sewer system in 2019.

A map of Royersford's collection and conveyance system was included in the 2018 Chapter 94 Report. No changes were made in 2019.

5.0 OPERATION AND MAINTENANCE PROGRAM

Operation

Operation and maintenance activities for the treatment plant and collection system are performed by the treatment plant operators. There are two full-time operators, one of which is certified. Major repairs and/or maintenance items at the Royersford WWTP during 2019 include:

- a. Drained, cleaned, and adjusted the flight chains in Secondary Filtration Tanks 1, 2, and 3.
- b. Concrete repairs were made to Primary Filtration Tanks 1, 2, 3, and Secondary Filtration Tank 1.

Suburban Testing Laboratories, Inc. performs the analysis of the WWTP's influent, effluent, and sludge. Plant operators routinely perform the laboratory analyses for DO, PH, and TRC. Results of the analyses are recorded on a weekly and monthly log. One copy is forwarded to the appropriate agencies required by the facility's NPDES discharge permit.

Suburban Testing Laboratories, Inc. also performed the sampling and analysis for PCBs in Royersford Borough's wastewater system.

Royersford Borough maintains an Infiltration/Inflow (I/I) program and has a Corrective Action Plan in place that was approved by the DEP in 2005.

Investigation and rehabilitation is performed as needed. The collections system maintenance program consists of systematic checks on manholes throughout the collection system.

6.0 CONDITION AND CAPACITY OF THE SEWER SYSTEM

The overall condition of the Royersford Borough sewerage collection system is consistent with a system with sections originally constructed in 1935. The majority of the system consists of 8-inch clay pipe and brick manholes. The sewer mains on Main Street and First Avenue are 15-inch clay pipe. New sewer mains are typically constructed of PVC pipe and precast manholes.

Royersford maintains an Infiltration/Inflow program for the sewer collection system and has a Corrective Action Plan in place that was initially approved by DEP in 2005 to address wet weather flows. Investigation and rehabilitation is implemented as needed.

7.0 PUMP STATIONS

Royersford Borough owns and operates two (2) pump stations in their sewer service area; the Green Street Pump Station and the 10th Avenue Pump Station. Each station has two (2) pumps with rated capacities allowing for one pump to be in standby mode. The following flow information is estimated based on each station's rated capacity and the pump runtimes that are recorded daily.

The Green Street Pump Station has a capacity of 350 gpm or 504,000 gpd. The average daily flow for this station was 9,015 gpd in 2019 with a maximum month flow of 13,548 gpd in March 2019. The 2-year projected maximum monthly flow is 14,225 gpd based on a 5 percent increase in flow.

The 10th Avenue Pump Station has a capacity of 450 gpm or 648,000 gpd. The average daily flow for this station was 21,157 gpd in 2019 with a maximum month flow of 27,872 gpd in January of 2019. The 2-year projected maximum monthly flow is 29,266 gpd based on a 5 percent increase in flow.

Maintenance performed and improvements made to the pumping stations consisted of the following in 2019:

Green Street Pump Station

- a. Existing pump controls were relocated from inside the dry well to a new control panel located outside of the dry well above the ground level.
- b. Replaced the fuel injectors on the backup generator.

10th Avenue Pump Station

- a. Replaced rubber check valve for Pump #2.

8.0 SOLIDS MANAGEMENT INVENTORY

Sludge is digested anaerobically and is transported offsite to other wastewater treatment facilities for dewatering and disposal. During 2019, 344,571 gallons or 31.24 dry tons of anaerobically digested sludge was taken from the WWTP and transported to the Pottstown WWTP for dewatering and offsite disposal.

9.0 INDUSTRIAL WASTE REPORT

There are no industrial dischargers in Royersford's sewer service area that are known to discharge any industrial process wastewater to the Royersford WWTP.

ATTACHMENT A

PaDEP Chapter 94 Report Form



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:	Royersford Borough	Permit No.:	PA0021512
Mailing Address:	300 Main Street	Effective Date:	January 1, 2018
City, State, Zip:	Royersford, PA 19468	Expiration Date:	December 31, 2022
Contact Person:	Michael A. Leonard	Renewal Due Date:	July 1, 2022
Title:	Borough Manager	Municipality:	Royersford Borough
Phone:	610.948-3737	County:	Montgomery
Email:	mleonard@royersfordborough.org	Consultant Name:	ARRO Consulting, Inc.
CHAPTER 94 REPORT COMPONENTS			
<p>1. 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))</p> <p>Check the appropriate boxes:</p> <p><input checked="" type="checkbox"/> Line graph for flows attached (See Chapter 94 Report) <input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment B) <input type="checkbox"/> Section 1 is not applicable (report is for a collection system).</p>			
<p>2. 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))</p> <p>Check the appropriate boxes:</p> <p><input checked="" type="checkbox"/> Line graph for organic loads attached (See Chapter 94 Report) <input checked="" type="checkbox"/> DEP Chapter 94 Spreadsheet used (Attachment B) <input type="checkbox"/> Section 2 is not applicable (report is for a collection system).</p>			
<p>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))</p>			

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 extensions of the sewer system were constructed in 2019, and no new connections were added to the system.

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))

See Chapter 94 Report.

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:

- 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.
- System did not experience capacity-related bypassing, SSOs or surcharging during the report year.

Comments:

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.
- Discussion of condition of each pump station attached (See Chapter 94 Report)

8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8))

- 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 (See Attachment)
- Industrial pretreatment report as required in an NPDES permit attached (See 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 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 (See Attachment)

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**)

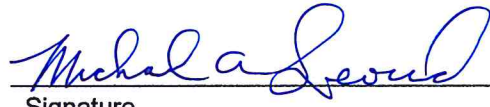
12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))

Flow calibration report attached (**See Attachment E**)

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).

Michael A. Leonard, Borough Manager



Name of Responsible Official

Signature

610.948.3737

MARCH 25, 2020

Telephone No.

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).

Douglas Kopp

Name of Preparer

Signature

484-525-4553

Telephone No.

Date

ATTACHMENT B

PaDEP Chapter 94 Spreadsheet



**PADEP Chapter 94 Spreadsheet
Sewage Treatment Plants**

Reporting Year:

Persons/EDU:

Permit No.:

Facility Name:

Existing Organic Design Capacity:

Upgrade Planned in Next 5 Years?

Future Organic Design Capacity:

Existing Hydraulic Design Capacity:

Upgrade Planned in Next 5 Years?

Future Hydraulic Design Capacity:

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

Month	2015	2016	2017	2018	2019
January	521	819	677	521	676
February	835	725	638	438	582
March	557	782	695	348	597
April	670	574	435	653	413
May	866	602	420	328	374
June	498	478	447	354	270
July	640	445	321	364	308
August	644	364	467	342	242
September	549	310	346	465	264
October	732	438	700	435	348
November	766	515	468	587	536
December	613	648	509	416	542

Monthly Average Flows for Past Five Years (MGD)

Month	2015	2016	2017	2018	2019
January	0.447	0.455	0.406	0.445	0.575
February	0.439	0.646	0.331	0.568	0.528
March	0.533	0.339	0.365	0.493	0.516
April	0.434	0.294	0.348	0.341	0.305
May	0.39	0.31	0.28	0.345	0.312
June	0.435	0.235	0.273	0.341	0.245
July	0.452	0.25	0.283	0.353	0.275
August	0.37	0.223	0.274	0.436	0.226
September	0.331	0.238	0.234	0.419	0.182
October	0.412	0.251	0.247	0.321	0.254
November	0.394	0.258	0.303	0.572	0.341
December	0.381	0.388	0.354	0.522	0.444

Annual Avg 658 558 510 438 429
 Max 3-Mo Avg 866 819 700 653 676
 Max : Avg Ratio 1.32 1.47 1.37 1.49 1.57
 Existing EDUs 1,714 1,714 1,716 1,716 1,716
 Load/EDU 0.384 0.326 0.297 0.255 0.250
 Flow/Capita (GPD) 0.151 0.128 0.117 0.100 0.099
 Exist. Overload? NO NO NO NO NO

Annual Avg 0.418 0.324 0.308 0.43 0.35
 Max 3-Mo Avg 0.473 0.494 0.375 0.502 0.556
 Max : Avg Ratio 1.13 1.52 1.22 1.17 1.59
 Existing EDUs 1,714.0 1,714.0 1,716.0 1,716.0 1,716.0
 Flow/EDU (GPD) 243.9 189.0 179.5 250.6 204.0
 Flow/Capita (GPD) 96.0 74.4 70.7 98.7 80.3
 Exist. Overload? NO NO NO NO NO

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

Year	2020	2021	2022	2023	2024
New EDUs	3	3	1	1	3
New EDU Load	0.907	0.907	0.302	0.302	0.907
Proj. Annual Avg	520	520	521	521	522
Proj. Max Avg	750	752	752	753	754
Proj. Overload?	NO	NO	NO	NO	NO

Projected Flows for Next Five Years (MGD)

Year	2020	2021	2022	2023	2024
New EDUs	3.0	3.0	1.0	1.0	3.0
New EDU Flow	0.0006	0.0006	0.0002	0.0002	0.0008
Proj. Annual Avg	0.367	0.3676	0.3678	0.368	0.3666
Proj. Max 3-Mo Avg	0.487	0.487	0.488	0.488	0.489
Proj. Overload?	NO	NO	NO	NO	NO

Show Precipitation Data on Hydraulic Graph?

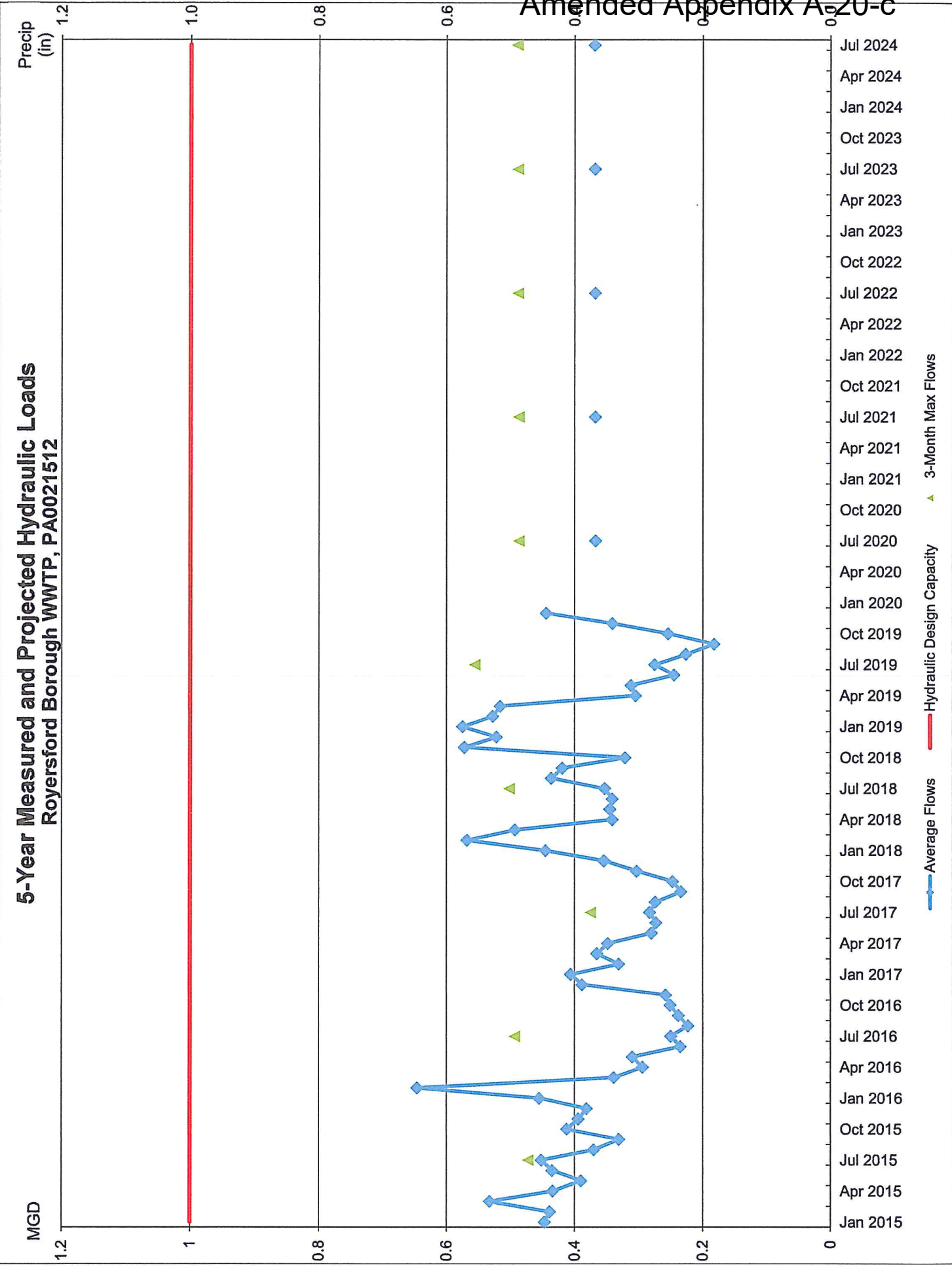
Total Monthly Precipitation for Past Five Years (Inches)

Month	2015	2016	2017	2018	2019
January	3.15	25.55	5.2	2.8	3.3
February	1.43	9.13	3.6	6.35	1.5
March	8.05	156.0	2.95	2.3	2.5
April	1.95	1.78	2.96	2.0	3.7
May	0.1	3.64	5.75	6.39	5.34
June	7.6	1.7	5.2	6.41	4.6
July	5.4	5.2	7.6	10.11	6.95
August	2.5	1.7	6.45	8.67	4.05
September	3.6	4.35	2.85	8.21	1.8
October	4.6	1.42	5.45	2.87	7.7
November	1.61	3.25	2.2	13.05	1.4
December	4.81	3.15	2.45	5.25	5.3

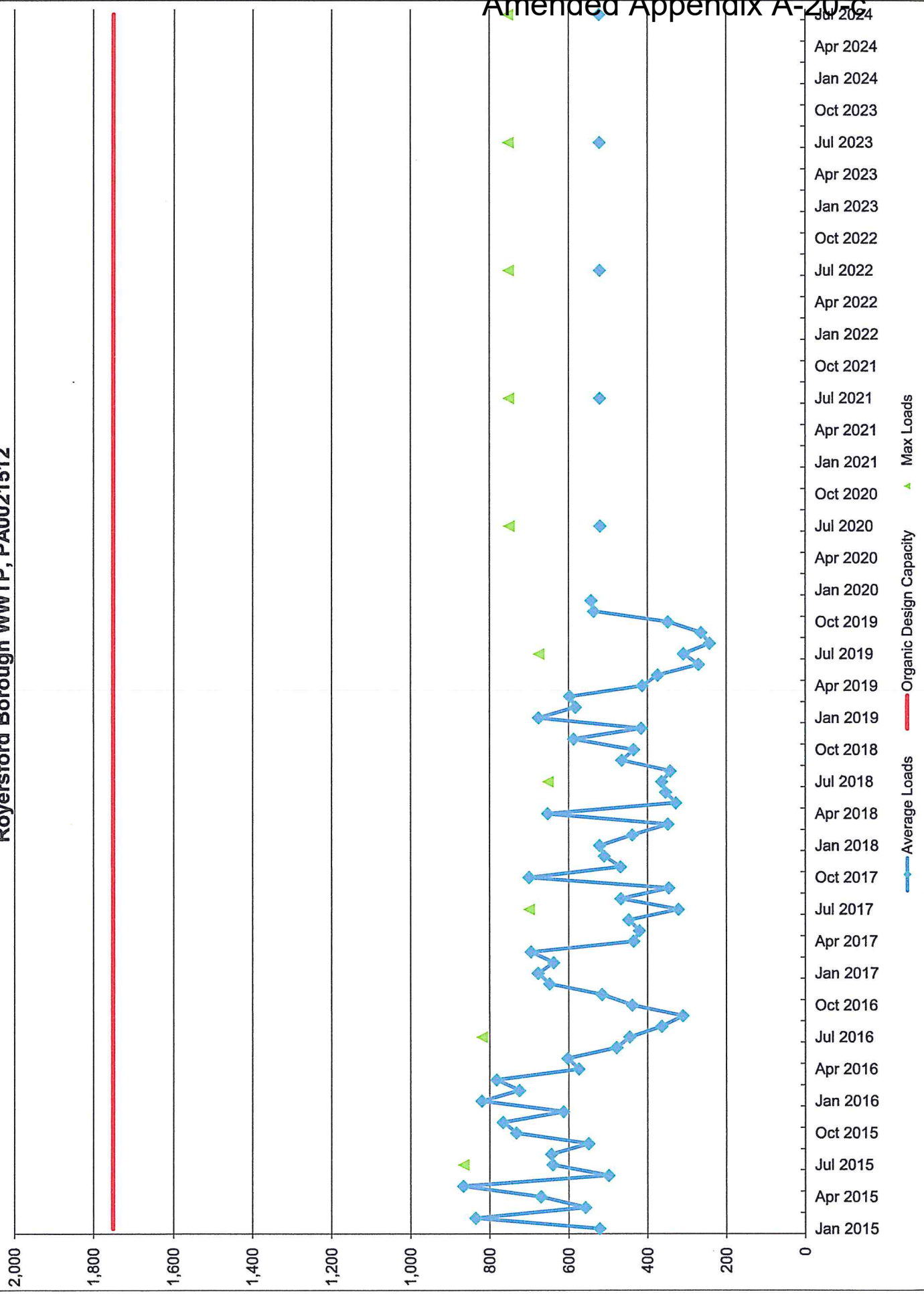
ATTACHMENT C

Hydraulic & Organic Loading Graphs

**5-Year Measured and Projected Hydraulic Loads
Royersford Borough WWTP, PA0021512**



**5-Year Measured and Projected Organic Loads
Royersford Borough WWTP, PA0021512**



ATTACHMENT D

Projected EDUs

Amended Appendix A-20-c
BOROUGH OF ROYERSFORD
PROJECTED EDUS

Year	2019	2020	2021	2022	2023	2024
600 Arch Street		2	2	0	0	0
Misc. Connection		1	1	1	1	3
Total Additional EDUs		3	3	1	1	3
Cumulative EDUs	1716	1719	1722	1723	1724	1727

ATTACHMENT E

Flow Meter Calibration Report

FlowTech, LLC

P.O. Box 304
Flourtown, PA 19031

Amended Appendix A-20-c

Phone 484 685-6676
Fax 215 836-2710

SERVICE REPORT

Royersford Borough
300 Main Street
Royersford, PA 19468

Contact Person: Jack Huzzard

Contract: Annual
Date of service: 12/24/2019
Location: Wastewater Treatment Plant
Meter: Effluent
Manufacturer: Eastech / Chessell
Serial#: 15218 / 9802-80505-C05
Transmitter: 2220
Recorder: 392
Primary: (Two) 3' Three Foot Rectangular With End Contractions
Maximum Capacity: 2 MGD

Completed Work

Calibration of Transmitter

Tested: Simulated Head Rises & Flow
Measurements
Error: $\frac{1\%}{\pm 1\%}$
Tolerance: $\pm 1\%$

Calibration of Totalizer

Tested at: 0, 50 & 100%
Multiplier: X 100
Error: $\frac{0\%}{\pm 1\%}$
Tolerance: $\pm 1\%$

Calibration of Recorder

Tested at: 0, 50 & 100%
Multiplier: In %
Error: $\frac{0\%}{\pm 1\%}$
Tolerance: $\pm 1\%$

Notes: Cleaned primary and left equipment in working order.

Technician: kg