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.

RESPONSE:

c. Attached is the 2019 Chapter 94 Municipal Wasteload Management Report, that was most recently submitted to DEP by the 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 **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



TABLE OF CONTENTS

| | <u>Page</u> |
|-----|--|
| 1.0 | INTRODUCTION 1 |
| 2.0 | DESCRIPTION OF TREATMENT PLANT |
| 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 PROGRAM4 |
| 6.0 | CONDITION AND CAPACITY OF THE SEWER SYSTEM5 |
| 7.0 | PUMP STATIONS5 |
| 8.0 | SOLIDS MANAGEMENT INVENTORY |
| 9.0 | INDUSTRIAL WASTE REPORT |
| | |
| | |
| | <u>ATTACHMENTS</u> |
| | * |
| A. | PaDEP Chapter 94 Report Form |
| В. | PaDEP Chapter 94 Spreadsheet |
| C. | Hydraulic & Organic Loading Graphs |

D.

E.

Projected EDUs

Flow Meter Calibration Reports

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> | Average Monthly Limits | | | |
|---------------------------|-------------------------|--|--|--|
| 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. | | | |
| pН | 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.



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.



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.



3800-FM-BPNPSM0507 4/2014 Chapter 94 Report



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 | | | | | | |
| Pe | rmittee Name: | Royersford Borough | Permit No.: | PA0021512 | | | |
| Ma | ailing Address: | 300 Main Street | Effective Date: | January 1, 2018 | | | |
| Cit | y, State, Zip: | Royersford, PA 19468 | Expiration Date: | December 31, 2022 | | | |
| Co | ntact Person: | Michael A. Leonard | Renewal Due Date: | July 1, 2022 | | | |
| Tit | le: | Borough Manager | Municipality: | Royersford Borough | | | |
| Ph | one: | 610.948-3737 | County: | Montgomery | | | |
| En | nail: | mleonard@royersfordborough.org | Consultant Name: | ARRO Consulting, Inc. | | | |
| | | CHAPTER 94 REPORT | COMPONENTS | | | | |
| 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)) Check the appropriate boxes: Line graph for flows attached (See Chapter 94 Report) DEP Chapter 94 Spreadsheet used (Attachment B) Section 1 is not applicable (report is for a collection system). | | | | | | |
| 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)) Check the appropriate boxes: Line graph for organic loads attached (See Chapter 94 Report) DEP Chapter 94 Spreadsheet used (Attachment B) Section 2 is not applicable (report is for a collection system). | | | | | | |
| 3. | organic projections | r 94 Spreadsheet was not used to determent. In all cases, include a description of ssary, and data used to support the project (a)(3)) | the time needed to ex | xpand the plant to meet the load | | | |

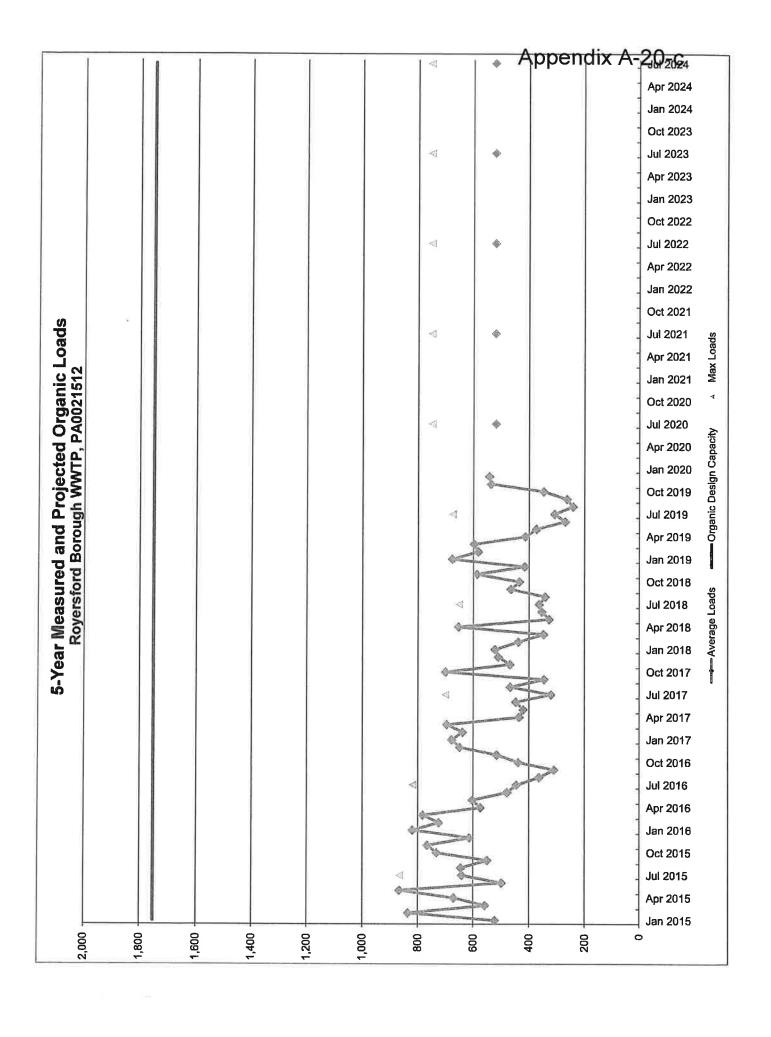
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|---|-----|---|
| ☑ The collection system does contain pump stations. ☑ Discussion of condition of each pump station attached (See Chapter 94 Report) 8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report will 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 commendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has previously been submitted. b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial 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 industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems discussion shall include a list of industries known to be discharging wastes which create problems in the plant in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may depollution 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 cause industrial waste dischargers. Check the appropriate boxes: 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 organic overload condition. This report demonstrates a projected hydraulic overload condition. This report demonstrates a projected organic overload condition. This report demonstrates a projected organic overload condition. This report demonstrates a projected organic overload condition. This report demonstr | | Check the appropriate boxes: |
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| | | Sewage Sludge Management Inventory attached (See Attachment) |

ATTACHMENT B

PaDEP Chapter 94 Spreadsheet

ATTACHMENT C

Hydraulic & Organic Loading Graphs



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 |

FlowTech, LLC

P.O. Box 304 Flourtown, PA 19081

Phone 484 685-6676 Fax 215 836-2710

SERVICE REPORT

Royersford Borough 300 Main Street Royersford, PA 19468

Centact Person: Jack Huzzard

Contract: Annual

Date of service: 12/24/2019

Location: Wastewater Treatment Plant

Meter: Effluent

Manufacturer: Eastech / Chasaell Serial#: 18218 / 9802-80505-C05

Transmitter: 2220 Resorder: 392

Primery: (Two) 3' Three Foot Rectangular With End Contractions Maximum Capacity: 2 MGD

Completed Work

Calibration of Transmitter

Tested: Simulated Head Rises & Flow

Measurements

Error:

Tolerance: 21% Calibration of Totalizer

Tested at: 0, 50 & 100%

Multiplier: X 100

Error:

0% 11% Tolerence:

Calibration of Recorder

Tested at: 0, 50 & 100%

Multiplier: In %

Error:

生1% Tolerance:

Notes: Cleaned primary and left equipment in working order.

Technician: kg