

Application Type Renewal  
 Facility Type Non-Municipal  
 Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0254118  
 APS ID 859915  
 Authorization ID 1292871

**Applicant and Facility Information**

|                           |   |                  |   |
|---------------------------|---|------------------|---|
| Applicant Name            | <u>Andrew Shroyer</u>                             | Facility Name    | <u>Shroyer SRSTP</u>                              |
| Applicant Address         | <u>146 Lee Street</u><br><u>Hyndman, PA 15545</u> | Facility Address | <u>146 Lee Street</u><br><u>Hyndman, PA 15545</u> |
| Applicant Contact         | <u>Andrew Shroyer</u>                             | Facility Contact | <u>Same</u>                                       |
| Applicant Phone           | <u>814-494-3787</u>                               | Facility Phone   | <u>same</u>                                       |
| Client ID                 | <u>316489</u>                                     | Site ID          | <u>719667</u>                                     |
| Ch 94 Load Status         | <u>Not Overloaded</u>                             | Municipality     | <u>Southampton Township</u>                       |
| Connection Status         | <u>No Limitations</u>                             | County           | <u>Somerset</u>                                   |
| Date Application Received | <u>October 21, 2019</u>                           | EPA Waived?      | <u>Yes</u>  |
| Date Application Accepted | <u>October 22, 2019</u>                           | If No, Reason    | <u></u>   |
| Purpose of Application    | <u>Renew NPDES permit.</u>                        |                  |   |

**Summary of Review**

The permittee requests to renew NPDES permit PA0254118. The NPDES permit was originally issued to Mr. Marvin Rodney. The previous permit was issued to Mr. Shroyer on May 7, 2015 and expired on May 31, 2020.

Discharge is to North Branch Jennings Run which is classified as a cold-water fishery. Secondary effluent limitations were previously imposed. It appears the original secondary limits were imposed because at that time they were considered appropriate for a SFTF discharge to a perennial stream.

The River Mile Index is not listed in Part A of the draft permit. It appears the RMI listed in the previous permit is incorrect. This permit writer was unsuccessful obtaining it through eMAPS and does not have office resources available to acquire it because the office is closed due to the Coronavirus pandemic.

The existing treatment process consists of a septic tank(s), Eco-Flo peat filter, and chlorination. This facility is not eligible for a general NPDES permit because a peat biofilter is utilized. The plant serves a 3-bedroom dwelling and is rated for a discharge flow of 0.0004 MGD. Part II Permit No. 5609404 authorized construction of the facility and was originally issued to Mr. Rodney on January 15, 2010. That permit was transferred to Mr. Shroyer on May 7, 2015.

The proposed effluent limits, which are more stringent, are consistent with the SOP New and Reissuance Individual SFTF NPDES Permits Revised May 17, 2019. They are to be established in all renewed permits unless site-specific considerations such as TMDLs or anti-degradation applies. For this permit, TMDLs or anti-degradation do not apply. In addition, the BOD5 and TSS limitations are now applicable because the facility was constructed after publication of the Small Flow Treatment Facilities Manual (362-0300-002). That manual was published on December 2, 2006 which is prior to the WQM permit being approved which as stated above was January 15, 2010. ECOFLO STB-650 Peat Biofilters are manufactured to meet tertiary TSS limitations. The previous permit required all the parameters to be monitored at least once every 6 months. The monitoring frequencies are being revised to be consistent with the SOP. For all the parameters, except TRC, monitoring is being reduced to 1/year. This writer feels reduced monitoring for these parameters is justified because the plant has no past compliance issues. TRC however is now required to be sampled monthly. This is a parameter that requires regular maintenance and monthly sampling will help ensure tablets are kept in the chlorinator. Therefore, this permit writer is recommending the sampling be increased from once every 6 months to monthly for TRC.

This writer researched Ecoflo® Biofilter systems and learned the life span of the filtering media is typically around 8-years. If not replaced, the condition of the peat media may reduce the treatment performance of the system. An analysis of the filter

**Summary of Review**

condition can be done, upon demand from the owner or licensed service provider, by Premier Tech Aqua (PTA). PTA can do the filter media assessment for free if it has annual reports and pictures coming from the maintenance program in its possession. The analysis can apparently be done by assessing and comparing the evolution of the filter media condition every year. The permittee was also reminded that the effluent filter must be cleaned every time the septic tank is pumped, or as per manufacturer's specifications or local jurisdiction requirements. PTA recommends that the effluent filter be inspected at least once a year and, if required, cleaned before being put back in place. The permittee was made aware of this information in the permit cover letters. If these steps are taken, the permittee should consistently comply with the more stringent effluent limitations.

This draft permit is approved during the Coronavirus pandemic requiring DEP employees to telework. Electronic signatures are considered appropriate for the permit documents. An electronic copy of the communication that transmitted approval of the draft permit documents has been saved and is included with the file. Mr. Shroyer was asked in the draft permit cover letter to confirm that he will have no issue with DEP issuing the final permit documents electronically should the office still be closed.

The permittee complied with Act 14 requirements.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

| Approve | Deny | Signatures  | Date          |
|---------|------|---|---------------|
| x       |      | <i>David R. Ponchione</i><br>David R. Ponchione / Project Manager   | July 20, 2020 |
| x       |      | <i>Christopher Kriley</i><br>Christopher Kriley, P.E. / Program Manager for Donald J. Leone,<br>P.E. / Environmental Engineer Manager | July 21, 2020 |

**Discharge, Receiving Waters and Water Supply Information**

|   |                                 |                              |                  |
|---|---------------------------------|------------------------------|------------------|
| Outfall No.                             | 001                             | Design Flow (MGD)            | .0004            |
| Latitude                                | 39° 43' 45"                     | Longitude                    | -78° 52' 06"     |
| Quad Name                               | Cumberland                      | Quad Code                    | 2115             |
| Wastewater Description: Sewage Effluent |                                 |                              |                  |
| Receiving Waters                        | North Branch Jennings Run (CWF) | Stream Code                  | 61880            |
| NHD Com ID                              | 45644283                        | RMI                          | To be determined |
| Drainage Area                           | 2.7 mi <sup>2</sup>             | Yield (cfs/mi <sup>2</sup> ) | NA               |
| Q <sub>7-10</sub> Flow (cfs)            | NA                              | Q <sub>7-10</sub> Basis      | NA               |
| Watershed No.                           | 13-A                            | Chapter 93 Class.            | CWF              |
| Exceptions to Use                       | None                            | Exceptions to Criteria       |                  |
| Assessment Status                       | Attaining Use(s)                |                              |                  |

Changes Since Last Permit Issuance: None

| Treatment Facility Summary                     |                                   |                         |                            |                               |
|--|-----------------------------------|-------------------------|----------------------------|-------------------------------|
| <b>Treatment Facility Name:</b> Shroyer Andrew |                                   |                         |                            |                               |
| <b>WQM Permit No.</b>                          |                                   | <b>Issuance Date</b>    |                            |                               |
| 5609404  |                                   | January 15, 2010        |                            |                               |
| <b>Waste Type</b>                              | <b>Degree of Treatment</b>        | <b>Process Type</b>     | <b>Disinfection</b>        | <b>Avg Annual Flow (MGD)</b>  |
| Sewage   | Secondary                         | Septic Tank Sand Filter | Chlorine                   | < 0.0004                      |
| <b>Hydraulic Capacity (MGD)</b>                | <b>Organic Capacity (lbs/day)</b> | <b>Load Status</b>      | <b>Biosolids Treatment</b> | <b>Biosolids Use/Disposal</b> |
| 0.0004   | NA                                | Not Overloaded          | Septic Tank                | Haul to Municipal Plant       |

Changes Since Last Permit Issuance: None

**Compliance History**

**Operations Compliance Check Summary Report**

**Facility:** Schroyer STP

**NPDES Permit No.:** PA0254118

**Compliance Review Period:** 7/2015 – 7/2020

**Inspection Summary:**

| <b>INSP ID</b> | <b>INSPECTED DATE</b> | <b>INSP TYPE</b>      | <b>AGENCY</b>                       | <b>INSPECTION RESULT DESC</b> |
|----------------|-----------------------|-----------------------|-------------------------------------|-------------------------------|
| 2501663        | 07/13/2016            | Compliance Evaluation | PA Dept of Environmental Protection | No Violations Noted           |

**Violation Summary:** No violations

**Open Violations by Client ID:** No open violations for Client ID 316489

**Enforcement Summary:** No enforcements

**DMR Violation Summary:** No DMR exceedances.

**Compliance Status:** Permittee is in compliance.

**Completed by:** John Murphy

**Completed date:** 7/10/2020

**Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the “NPDES Permit Writer’s Manual” (362-0400-001), SOPs and/or BPJ.

**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

| Parameter                   | Effluent Limitations                |                |                       |                |         |                  | Monitoring Requirements                      |                      |
|-----------------------------|-------------------------------------|----------------|-----------------------|----------------|---------|------------------|--|----------------------|
|                             | Mass Units (lbs/day) <sup>(1)</sup> |                | Concentrations (mg/L) |                |         |                  | Minimum <sup>(2)</sup> Measurement Frequency | Required Sample Type |
|                             | Average Monthly                     | Average Weekly | Minimum               | Annual Average | Maximum | Instant. Maximum |  |                      |
| Flow (GPD)                  | Report Annl Avg                     | XXX            | XXX                   | XXX            | XXX     | XXX              | 1/year                                       | Estimate             |
| pH (S.U.)                   | XXX                                 | XXX            | 6.0 Inst Min          | XXX            | XXX     | 9.0              | 1/year                                       | Grab                 |
| TRC                         | XXX                                 | XXX            | Report Avg Mo         | XXX            | XXX     | Report           | 1/month                                      | Grab                 |
| BOD5                        | XXX                                 | XXX            | XXX                   | 10.0           | XXX     | 20.0             | 1/year                                       | Grab                 |
| TSS                         | XXX                                 | XXX            | XXX                   | 10.0           | XXX     | 20.0             | 1/year                                       | Grab                 |
| Fecal Coliform (No./100 ml) | XXX                                 | XXX            | XXX                   | 200            | XXX     | XXX              | 1/year                                       | Grab                 |

Other Comments:

- The units for Fecal Coliform are now “No./100 ml” in lieu of “CFU/100 ml”.
- Effluent limitations for pH are to be reported as “Instantaneous Minimum” in lieu of “Minimum”.
- To be consistent with the SOP, “Report” is required for the Flow parameter in lieu of the design flow.
- BOD5 is now required to be sampled in lieu of CBOD5.
- There are no longer seasonal Fecal Coliform limits.
- As explained above, tertiary limits for BOD5 and TSS are now required (10 mg/l each parameter) in lieu of secondary limits CBOD5 25 mg/l, TSS 30 mg/l.
- The sampling frequencies for each parameter were previously 1/6 months but are revised to be consistent with the SOP.