

Application Type New  
Wastewater Type Sewage  
Facility Type SRSTP

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SFTF/SRSTP**

Application No. PA0245453  
APS ID 1078553  
Authorization ID 1422659

**Applicant, Facility and Project Information**

|                           |   |                  |   |
|---------------------------|---|------------------|---|
| Applicant Name            | <u>Andrews Robert T</u>   | Facility Name    | <u>Andrews SRSTP</u>  |
| Applicant Address         | <u>2800 Quarry Road P O Box 280</u><br><u>Bryn Athyn, PA 19009-8006</u> | Facility Address | <u>2800 Quarry Road</u><br><u>Bryn Athyn, PA 19009-8006</u> |
| Applicant Contact         | <u>Rob Andrews</u>  | Facility Contact | <u>Andrews Robert</u>                                       |
| Applicant Phone           | <u></u>   | Facility Phone   | <u></u>   |
| Client ID                 | <u>374248</u>   | Site ID          | <u>841851</u>   |
| SIC Code                  | <u>8800</u>   | Municipality     | <u>Bryn Athyn Borough</u>                                   |
| SIC Description           | <u>Private Households</u>   | County           | <u>Montgomery</u>   |
| Date Application Received | <u>December 12, 2022</u>  | WQM Required     | <u></u>   |
| Date Application Accepted | <u></u>   | WQM App. No.     | <u>4622409</u>  |
| Project Description       | <u>New SRTSP</u>  |                  |   |

**Summary of Review**

The applicant requests approval for NPDES Permit to discharge treated sewage from a small flow package treatment plant serving a 7-bedroom single residence on 1.4 acres, located at 2800 Quarry Rd., Bryn Athyn located in Bryn Athyn Borough, Montgomery County. This system is to replace an existing on-lot system.

This project will generate 800 gallons of sewage per day to be treated by SFTF with a discharge to a tributary of Pennypack Creek.

The proposed treatment plant consists of the following treatment units:

1. Primary treatment via a 2500-gallons of septic tanks and secondary treatment via a coco filter and disinfection by a UV light. The treatment train starts with an existing single compartment septic tank followed by a 1500-gal two compartment septic tank containing a PL-122 effluent filter.
2. Effluent from the septic tank will enter an Ecoflo EC-7 1000 P-G coco filter via gravity.
3. Disinfection will be provided by SALCOR 3G UV UV Disinfection Unit.
4. The final discharge to the outfall will be via gravity to a 4" SCHED 40 pipe to an outfall within an easement on Cairn Run Homeowners Association property. The outfall will discharge to an unnamed tributary that flows through wetlands and into Pennypack Creek.

The design of the treatment doesn't comply with Small Flow Treatment Facilities Manual (Technical Guidance Number 362-0300-002) because of the use of coco filter, therefore, this facility doesn't qualify for coverage under general permit (WQG01) and required to submit an Individual WQM permit application. The Design Engineer's Report stated that the proposed treatment plant will be able to meet the effluent limitations applicable to Individual Single Residence Sewage Treatment Plants.

Act 537 Planning was approved on May 3, 2022 under DEP CODE No. 1-46922-020-3s.

| Approve | Deny | Signatures  | Date             |
|---------|------|---|------------------|
| x       |      | <i>Vasantha</i><br>Vasantha Palakurti / Environmental Engineering Specialist  | January 24, 2023 |
| X       |      | <i>Pravin Patel</i><br>Pravin C. Patel, P.E. / Environmental Engineer Manager | 01/26/2023       |

### Summary of Review

Operation and maintenance requirements for the proposed SFTF are provided through the Bryn Athyn Borough Sewage Management Ordinance, Ordinance No. 694, executed on September 14, 2020, and the Operation and Maintenance Agreement, executed on February 18, 2020, by and between Bryn Athyn Borough and Robert T. Andrews and Susan Andrews.

#### Act 14 Notices:

Bryn Athyn Borough – September 22, 2022  
Montgomery County Planning Commission - September 22, 2022

#### 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.

Discharge and Stream Data – 2 - Receiving Waters and PWS

| Discharge, Receiving Waters and Water Supply Information |   |                   |                       |
|--|---|-------------------|-----------------------|
| Outfall No.  | <u>001</u>  | Design Flow (MGD) | <u>.008</u>           |
| Latitude   | <u>40° 8' 16.29"</u>                                  | Longitude         | <u>-75° 4' 23.86"</u> |
| Quad Name  | <u></u>   | Quad Code         | <u></u>               |
| Wastewater Description: <u>Sewage Effluent</u>           |   |                   |                       |
| Receiving Waters   | <u>Unnamed Tributary to Pennypack Creek (TSF, MF)</u> | Stream Code       | <u>02447</u>          |
| NHD Com ID   | <u>25599735</u>                                       | RMI               | <u>0.0600</u>         |
| Watershed No.  | <u>3-J</u>  | Chapter 93 Class. | <u>TSF, MF</u>        |
| Assessment Status  | <u>Attaining Use(s)</u>                               |                   |                       |

Changes Since Last Permit Issuance: N/A New Permit

**Development of Effluent Limits:**

Flow, BOD5, TSS and Fecal Coliform:

Limits for above mentioned parameters are derived from Standard Operating Procedure for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BCW-PMT-003). Minimum measuring frequency for all permit parameters will be required once per year in accordance with the SOP.

pH:

pH (6 – 9 STD units) is added to the permit.

UV is used for disinfectant.

**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 (MGD)                  | Report Annl Avg                     | XXX            | XXX                   | XXX            | XXX     | XXX              | 1/year                                       | Estimate             |
| pH (S.U.)                   | XXX                                 | XXX            | 6.0<br>Inst Min       | XXX            | XXX     | 9                | 1/year                                       | Grab                 |
| BOD5                        | XXX                                 | XXX            | XXX                   | 10.0           | XXX     | 20               | 1/year                                       | Grab                 |
| TSS                         | XXX                                 | XXX            | XXX                   | 10.0           | XXX     | 20               | 1/year                                       | Grab                 |
| Fecal Coliform (No./100 ml) | XXX                                 | XXX            | XXX                   | 200            | XXX     | XXX              | 1/year                                       | Grab                 |