

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SRSTP

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

Application No. PA0262102  
APS ID 818103  
Authorization ID 1500693

**Applicant, Facility and Project Information**

|                           |  |                  |                                 |
|---------------------------|--|------------------|---------------------------------|
| Applicant Name            | <u>Jack A. Larkin</u>                    | Facility Name    | <u>275 Pilgert Street SRSTP</u> |
| Applicant Address         | <u>275 Pilgert Street</u>                | Facility Address | <u>275 Pilgert Street</u>       |
|                           | <u>Alburtis, PA 18011-2435</u>           |                  | <u>Alburtis, PA 18011-2435</u>  |
| Applicant Contact         | <u>Jack Larkin</u>                       | Facility Contact | <u>Jack Larkin</u>              |
| Applicant Phone           | <u>(484) 599-1988</u>                    | Facility Phone   | <u>(484) 599-1988</u>           |
| Client ID                 | <u>304334</u>                            | Site ID          | <u>772733</u>                   |
| SIC Code                  | <u>8811</u>                              | Municipality     | <u>Longswamp Township</u>       |
| SIC Description           | <u>Services - Private Households</u>     | County           | <u>Berks</u>                    |
| Date Application Received | <u>September 23, 2024</u>                | WQM Required     | <u>Already in possession</u>    |
| Date Application Accepted | <u>October 4, 2024</u>                   | WQM App. No.     | <u>0613404</u>                  |
| Project Description       | <u>Renewal of NPDES permit for SRSTP</u> |                  |                                 |

**Summary of Review**

The existing permit for this site was issued on March 13, 2020 with an expiration date of March 31, 2025. The permit was administratively extended past the stated expiration date. The individual NPDES permit is being renewed for the discharge of treated sewage from this single residence sewage treatment plant (SRSTP) located in Longswamp Township, Berks County. This permittee is not eligible for DEP's general permit for treated discharges from Small Flow Treatment Facilities, the PAG-04, because the discharge is to a stream classified as High Quality.

Delaware River Basin Commission (DRBC)

Because the discharge is to a stream within the Delaware River watershed, a copy of the draft permit and the Fact Sheet will be sent to the DRBC in accordance with State regulations and an interagency agreement. Any comments from DRBC will be considered. Note: There is no DRBC docket; the discharge is below DRBC's reviewable threshold.

Outstanding Violations

There are no outstanding violations for this client according to DEP's Client History Summary Report.

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>Bonnie Boylan</i><br>Bonnie Boylan / Environmental Engineering Specialist           | September 16, 2025 |
| x       |      | <i>Maria D. Bebenek</i> for<br>Daniel W. Martin, P.E. / Environmental Engineer Manager | September 18, 2025 |

| Discharge, Receiving Waters and Water Supply Information  |  |                              |   |
|---|--|------------------------------|---|
| Outfall No.   | 001 *  | Design Flow (MGD)            | 0.0004                                    |
| Latitude  | 40° 28' 8"<br>(per last permit & application)                              | Longitude                    | -75° 39' 19"<br>(per last permit & appl.) |
| Quad Name   |  | Quad Code                    |   |
| Wastewater Description:   | Sewage Effluent  |                              |   |
| Receiving Waters  | Unnamed Tributary to Little Lehigh Creek (HQ-CWF, MF)                      | Stream Code                  | UNT 03626 per eMapPA                      |
| NHD Com ID  | 26296961   | RMI                          | 1.98                                      |
| Drainage Area   | 0.11 sq.mi. (USGS Stream Stats)<br>Q7-10 not provided by USGS Stream Stats | Yield (cfs/mi <sup>2</sup> ) | Yield not provided by USGS Stream Stats   |
| Q <sub>7-10</sub> Flow (cfs)  |  | Q <sub>7-10</sub> Basis      |   |
| Elevation (ft)  | Approx. 920  | Slope (ft/ft)                |   |
| Watershed No.   | 2-C  | Chapter 93 Class.            | HQ-CWF, MF                                |
| Existing Use  |  | Existing Use Qualifier       |   |
| Exceptions to Use   | None   | Exceptions to Criteria       |   |
| Assessment Status   | Impaired (Assessment ID 16904)   |                              |   |
| Cause(s) of Impairment  | Pathogens  |                              |   |
| Source(s) of Impairment   | Source Unknown   |                              |   |
| TMDL Status   | none   | Name                         | Not applicable                            |
| Secondary Water:  |  |                              |   |
| UNT empties into Little Lehigh Creek (RMI 19.6, HQ, but impaired for aquatic life due to siltation and impaired for recreational use due to pathogens) which empties into the Lehigh River (at RMI 16, WWF) |  |                              |   |
| Background/Ambient Data – not available   |  | Data Source : not available  |   |
| Nearest Downstream Public Water Supply Intake   | Lehigh County Authority Allentown City Water System                        |                              |   |
| PWS Waters  | Little Lehigh Creek  | Flow at Intake (cfs)         |   |
| PWS RMI   |  | Distance from Outfall (mi)   | Approx. 20 miles                          |

Changes Since Last Permit Issuance:

For the first NPDES permit for this site, the 2013 Fact Sheet and draft permit's proposed limits table both identified the outfall as 001. The final NPDES permit issued 2013 and the final renewal permit in 2020 identified the outfall as 002, with no explanation for the change. However, there is only one outfall at this site and always has been. Using the 002 label is misleading. The draft renewal permit identifies the outfall as 001, which matches DEP's eFacts database: DP Sub-facility ID 1107172, Sub-facility name Outfall 001.

Other Comments:

The downstream Little Lehigh Creek is considered Trout Natural Reproduction.

| <b>Compliance History</b>      |  |
|--------------------------------|--|
| <b>Summary of AMRs:</b>        | Lab sampling results from 6/26/2021, 6/27/2022, 6/12/2023, and 7/26/2024 show TSS and Fecal Coliform consistently under NPDES permit limits while BOD concentrations were high for two out of four effluent samples: 12.6 mg/l and 21.1 mg/l. The 7/26/2024 sample produced a BOD result of 4.4 mg/l. (Permittee sampled and tested for BOD rather than for CBOD, the parameter shown in their permit.)  |
| <b>Summary of Inspections:</b> | The most recent inspection (per WMS database) was February 9, 2021 when an administrative inspection was conducted. Violations were noted: failure to collect representative samples. "As required by Part A.I.A of your NPDES permit, annual sample analysis by an accredited laboratory is required for CBOD5, TSS & Fecal Coliform. Results should be reported on AMR. If flow is not adequate for sample collection, samples should be collected at a later time."<br><br>Also, the AMR does not indicate UV maintenance or UV bulb changes. Please document such on AMRs. Please document tank pumping and provide with AMR submission.<br><br>DEP's eFacts database shows that the violations were corrected as of March 17, 2021. |

Other Comments:

SRSTPs are not required to report sampling results in DEP's eDMR system. The existing permit for this facility requires AMRs and does not require DMRs.

### Development of Effluent Limitations

Pumping receipts and Annual Maintenance Reports (AMRs) for the facility were reviewed in addition to the data summarized on the previous page.

The effluent limitations and monitoring requirements are derived from the Department's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BCW-PMT-003, Version 1.8)—except that an 'Annual Average' Statistical Base Code is included consistent with the WMS permit template for SRSTPs rather than a 'Geometric Mean' given that the minimum monitoring frequency is once per year. The limits in the draft renewal permit are the same as in the existing permit.

#### Class A Wild Trout Streams:

No Class A Wild Trout Fish streams are impacted by this discharge.

#### Impaired Streams:

eMapPA shows that the receiving stream has been assessed in the past as impaired for recreational use due to pathogens. Further downstream, the Little Lehigh Creek has been assessed in the past as impaired for recreational use due to pathogens and as impaired for aquatic life due to siltation. The proposed effluent limitations, specifically Fecal Coliform and Total Suspended Solids, have been established to control pollutants that would otherwise contribute to the impairment.

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The following from the 2013 Fact Sheet is carried forward for documentation purposes:

#### ***Anti-Degradation Requirements (25 Pa Code § 93.4a)***

*The site-specific anti-degradation analysis was prepared as part of Act 537 planning module. In accordance with 25 Pa Code § 93.4c.(b)(1)(i)(A) and (B), this analysis included possible non-discharge alternatives (i.e., on-site sewage disposal, individual residential spray irrigation, connection to public sewer). However, the applicant indicated that these alternatives are not environmentally sound and cost-effective due to unsuitable soils, season high water table, and unavailable local wastewater treatment facilities nearby the property.*

*The applicant, according to a social or economic justification (SEJ), determined that there is no other long term solution to the failure of the existing on-site sewage disposal system and the proposed facility is the best available and cost-effective technology to achieve water quality-based effluent limitations (WQBELs) specified in the Department's guidance, Water Quality Antidegradation Implementation Guidance-Appendix B (391-0300-002). The planning module with this SEJ and alternate analysis was approved by the Department.*

*A Point of First Surface Water Use survey was conducted on the receiving stream on December 3, 2012 by the DEP biologist. The survey included site-specific aquatic life and physical (habitat) conditions of the stream. The survey concluded that the point of first surface water use for this stream is at the proposed discharge point. The survey also documented the presence of benthic macroinvertebrate taxa, including one mayfly, one stonefly, and three caddisfly genera. Based on the review, the permit will contain WQBELs specified in the Department's guidance to maintain and protect the existing water quality of the receiving stream.*

**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 as needed and BPJ. Instantaneous Maximum (IMAX) limits are generally 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><br>Measurement Frequency | Required Sample Type |
|                             | Average Monthly                     | Average Weekly | Instant. Minimum      | Annual Average | Daily Maximum | Instant. Maximum |   |                      |
| Flow (MGD)                  | Report Annl Avg                     | XXX            | XXX                   | XXX            | XXX           | XXX              | 1/year  | Estimate             |
| CBOD5                       | 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                 |

Compliance Sampling Location: at outfall 001

Other Comments: UV disinfection is in use.

Map eFacts Query Advanced Query Filter Plant Source Search

ESRI Streets & Imagery Topographic National Geographic Streets Imagery

Locate Latitude and Longitude

Decimal Degrees DD/MM/SS

Latitude: 40 28 8  
Longitude: -75 39 19

Locate Close

PA Historic Streams (1 of 4)

Latitude: 40.468889

Zoom to

Name: Trib 03626 To Little Lehigh Creek  
Net Streams: 57964  
Shed: 02C  
Named: 0  
Rec No: 57964  
Seg ID: 3626\_0.5669\_1.9741  
Seg ID Old: 3626\_0.5669\_1.974  
From Node: 78956  
To Node: 78198  
Down River Mile: 0.56694  
Up River Mile: 1.974052  
WRDS: 3626  
Strahler: 1

0 0.5 1mi

Imagery: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community; ESRI Streets: Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

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