

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SRSTP

## NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0264199  
APS ID 1132897  
Authorization ID 1519240

### Applicant, Facility and Project Information

|  |  |
|--|--|
| Applicant Name <u>William E Reed</u>                         | Facility Name <u>133 Ames Rd SRSTP</u> |
| Applicant Address <u>133 Ames Road</u>                       | Facility Address <u>133 Ames Road</u>  |
| <u>Bentleyville, PA 15314-1930</u>                           | <u>Bentleyville, PA 15314-1930</u>     |
| Applicant Contact <u>William Reed</u>                        | Facility Contact <u>William Reed</u>   |
| Applicant Phone <u>(304) 641-0404</u>                        | Facility Phone <u>(304) 641-0404</u>   |
| Client ID <u>323240</u>                                      | Site ID <u>810979</u>                  |
| SIC Code <u>8811</u>   | Municipality <u>Somerset Township</u>  |
| SIC Description <u>Services - Private Households</u>         | County <u>Washington</u>               |
| Date Application Received <u>March 6, 2025</u>               | WQM Required <u></u>                   |
| Date Application Accepted <u></u>                            | WQM App. No. <u></u>                   |
| Project Description <u>NPDES permit renewal application.</u> |  |


### Summary of Review

The PA Department of Environmental Protection (PADEP/Department) received an NPDES permit renewal application from William E Reed (permittee) for permittee's 133 Ames Rd SRSTP (facility) on March 6, 2025. The treated effluent is discharge into an UNT to Pigeon Creek in state watershed 19-C. The current permit expired on January 31, 2021. Since the renewal application wasn't received at least 180 days prior to the expiration date, the terms and conditions of the current permit are administratively extended. Renewal NPDES permit application under Clean Water Program are not covered by PADEP's PDG per 021-2100-001. This fact sheet is developed in accordance with 40 CFR §124.56.

Changes in this permit: None

#### 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         |
|---------|------|--|--------------|
| √       |      | Reza H. Chowdhury, E.I.T. / Project Manager  | May 19, 2025 |
| X       |      | <b>Pravin Patel</b><br>Pravin C. Patel, P.E. / Environmental Engineer Manager  | 05/20/2025   |

Discharge and Stream Data – 2 - Receiving Waters and PWS

| Discharge, Receiving Waters and Water Supply Information |  |                            |                |
|--|--|----------------------------|----------------|
| Outfall No.  | 001  | Design Flow (MGD)          | .0004          |
| Latitude   | 40° 8' 7.44"   | Longitude                  | -80° 1' 18.37" |
| Quad Name  | Hackett  | Quad Code                  | 1705           |
| Wastewater Description: Sewage Effluent                  |  |                            |                |
| Receiving Waters   | Unnamed Tributary to North Branch Pigeon Creek (WWF) | Stream Code                | 39684          |
| NHD Com ID   | 99410224   | RMI                        | 0.39           |
| Watershed No.  | 19-C   | Chapter 93 Class.          | WWF            |
| Existing Use   |  | Existing Use Qualifier     |                |
| Exceptions to Use  |  | Exceptions to Criteria     |                |
| Assessment Status  | Attaining Use(s)                                     |                            |                |
| Nearest Downstream Public Water Supply Intake            | None before confluence with Monongahela River        |                            |                |
| PWS Waters   |  | Flow at Intake (cfs)       |                |
| PWS RMI  |  | Distance from Outfall (mi) |                |

Changes Since Last Permit Issuance: None

Other Comments:

Treatment Plant Summary

The 133 Ames Rd SRSTP is located in Somerset Township, Washington County. The treatment facility is a packaged Norweco Bio Green Wastewater Treatment System Model 960 with Bio Film Reactor and UV Disinfection. The treated effluent is discharged into an UNT to North Branch Pigeon Creek, which has a Ch. 93 classification of Warm Water Fishes (WWF). The facility has an Average Annual Design Flow and Hydraulic Design Capacity of 0.0004 MGD.

Compliance History

| Summary of DMRs:        | PARAMETER   |                   | MAXIMUM DAILY VALUE |            | AVERAGE MONTHLY VALUE |            |             |
|-------------------------|---|-------------------|---------------------|------------|-----------------------|------------|-------------|
|                         |   |                   | Value               | Units      | Value                 | Units      | No. Samples |
|                         |   |                   |                     |            |                       |            |             |
|                         | pH (Minimum)  |                   | 7.86                | S.U.       |                       |            |             |
|                         | pH (Maximum)  |                   | 7.86                | S.U.       |                       |            |             |
|                         | Biochemical Oxygen Demand (Report one)  | BOD <sub>5</sub>  | <12                 | mg/L       |                       | mg/L       |             |
|                         |   | CBOD <sub>5</sub> | 14.2                | mg/L       |                       | mg/L       |             |
|                         | Fecal Coliform  |                   | <5                  | No./100 mL |                       | No./100 mL |             |
|                         | Total Suspended Solids (TSS)  |                   | <5                  | mg/L       |                       | mg/L       |             |
|                         | Total Residual Chlorine (TRC)   |                   | NA                  | mg/L       |                       | mg/L       |             |
| Summary of Inspections: | No reports in WMS. An NOV was issued on February 2025 for not submitting the renewal application on time. |                   |                     |            |                       |            |             |

**Existing Limits**

The following limits were applied to Outfall 001 for the period February 1, 2016 through January 31, 2021:

| Parameter                   | Effluent Limitations |             |                       |                 |     |                  | Monitoring Requirements       |                      |
|-----------------------------|----------------------|-------------|-----------------------|-----------------|-----|------------------|-------------------------------|----------------------|
|                             | Mass Units (lbs/day) |             | Concentrations (mg/L) |                 |     |                  | Minimum Measurement Frequency | Required Sample Type |
|                             | Average Monthly      | Avg. Weekly | Minimum               | Average Monthly | Max | Instant. Maximum |                               |                      |
| Flow (MGD)                  | Report               | XXX         | XXX                   | XXX             | XXX | XXX              | 1/year                        | Estimated            |
| pH (S.U.)                   | XXX                  | XXX         | 6.0                   | XXX             | XXX | 9.0              | 1/year                        | Grab                 |
| CBOD5                       | XXX                  | XXX         | XXX                   | 10              | XXX | 20               | 1/year                        | Grab                 |
| Total Suspended Solids      | XXX                  | XXX         | XXX                   | 10              | XXX | 20               | 1/year                        | Grab                 |
| Fecal Coliform (CFU/100 ml) | XXX                  | XXX         | XXX                   | 200 Geo Mean    | XXX | 1,000            | 1/year                        | Grab                 |

**Development of effluent limitations**

The following effluent limitations and monitoring requirements, at a minimum, will be established in all new and renewed SRSTP permits based on the requirements of DEP's "Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Application" (SOP No. BCW-PMT-003, Version 1.8, Final, November 9, 2012, Revised November 9, 2023).

| Parameter                   | Avg   | IMAX | Sample Type                           | Frequency: SFTFs | Frequency: SRSTPs |
|-----------------------------|---|------|---------------------------------------|------------------|-------------------|
| Flow (GPD)                  | Report  | XXX  | Estimate (SRSTPs)<br>Measured (SFTFs) | 1/month          | 1/year            |
| CBOD5 (mg/L)                | 10  | 20   | Grab                                  | 1/month          | 1/year            |
| TSS (mg/L)                  | 10  | 20   | Grab                                  | 1/month          | 1/year            |
| TRC (mg/L) *                | Report for SRSTPs; Use TRC Spreadsheet to determine WQBELs or 0.02 mg/L for SFTFs |      | Grab                                  | 1/month          | 1/year            |
| Fecal Coliform (No./100 ml) | 200 Geometric Mean (SFTFs) / Average (SRSTPs)                                     |      | Grab                                  | 1/month          | 1/year            |

\* This is an SRSTP with UV disinfection. The facility will not be required to measure TRC nor will be required to report UV dosage/intensity/transmittance.

In addition to above limits, the following limit is in the existing permit and will be carried over:

pH:

The TBEL for pH is above 6.0 and below 9.0 S.U. (40 CFR §133.102(c) and Pa Code 25 §§ 95.2(1), 92a.47) which are existing limits and will be carried over.

**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><br>Measurement<br>Frequency | Required<br>Sample<br>Type |
|                             | Average<br>Monthly                  | Average<br>Weekly | Minimum               | Annual<br>Average | Maximum | Instant.<br>Maximum |  |                            |
| Flow (MGD)                  | Report<br>Annl Avg                  | XXX               | XXX                   | XXX               | XXX     | XXX                 | 1/year   | Estimate                   |
| pH (S.U.)                   | XXX                                 | XXX               | 6.0<br>Inst Min       | XXX               | XXX     | 9.0                 | 1/year   | 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     | 1000                | 1/year   | Grab                       |

Compliance Sampling Location: At Outfall 001

Other Comments: None