

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0265659
APS ID 1094947
Authorization ID 1451040

Applicant, Facility and Project Information

| | | | |
|---------------------------|--|------------------|--|
| Applicant Name | <u>Clyde Roberts</u> | Facility Name | <u>Clyde Roberts SRSTP</u> |
| Applicant Address | <u>1289 Mercer Grove City Road</u> <u>Mercer, PA 16137-6243</u> | Facility Address | <u>1289 Mercer Grove City Road</u> <u>Mercer, PA 16137-6243</u> |
| Applicant Contact | <u>Clyde Roberts</u> | Facility Contact | <u></u> |
| Applicant Phone | <u>(724) 372-0012</u> | Facility Phone | <u></u> |
| Client ID | <u>312716</u> | Site ID | <u>777849</u> |
| SIC Code | <u>4952,8800</u> | Municipality | <u>Findley Township</u> |
| SIC Description | <u>Private Households, Trans. & Utilities - Sewerage Systems</u> | County | <u>Mercer</u> |
| Date Application Received | <u>July 24, 2023</u> | WQM Required | <u>Yes – Permit Received</u> |
| Date Application Accepted | <u></u> | WQM App. No. | <u>4318401</u> |
| Project Description | <u>This is a renewal application for a Single Residence Sewage Treatment Plant (SRSTP) for an existing dwelling.</u> | | |

Summary of Review

This is an existing discharge which serves a 5-bedroom home. This facility has been pumped out and tested within the permit term.

Act 14 – Notification was submitted and received.

Treatment of this facility consists of (WQM Permit No. 4318401): A Bluewater ATULLC Model B-400 Aerobic Unit with UV Radiation Disinfection.

There are no open violations in WMS for the subject Client ID (312716) as of 8/22/2023. [8/28/2023 CWY](#)

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 | | Dustin Hargenrater Dustin Hargenrater / Civil Engineer Trainee | August 22, 2023 |
| X | | Chad W. Yurisc Chad W. Yurisc, P.E. / Environmental Engineer Manager | 8/28/2023 |

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>.0006</u> |
| Latitude | <u>41° 12' 12.76"</u> | Longitude | <u>-80° 10' 56.55"</u> |
| Quad Name | <u>Mercer</u> | Quad Code | <u>41080B2</u> |
| Wastewater Description: <u>Sewage Effluent</u> | | | |
| Receiving Waters | <u>Unnamed Tributary to Pine Run (TSF)</u> | Stream Code | <u>35656</u> |
| NHD Com ID | <u>130031594</u> | RMI | <u>0.8500</u> |
| Drainage Area | <u>0.25</u> | Yield (cfs/mi ²) | <u>0.00644</u> |
| Q ₇₋₁₀ Flow (cfs) | <u>0.00161</u> | Q ₇₋₁₀ Basis | <u>USGS - StreamStats</u> |
| Elevation (ft) | <u>1,373</u> | Slope (ft/ft) | <u>--</u> |
| Watershed No. | <u>20-A</u> | Chapter 93 Class. | <u>TSF</u> |
| Existing Use | <u></u> | Existing Use Qualifier | <u></u> |
| Exceptions to Use | <u></u> | Exceptions to Criteria | <u></u> |
| Assessment Status | <u>Attaining Use(s)</u> | | |
| Cause(s) of Impairment | <u></u> | | |
| Source(s) of Impairment | <u></u> | | |
| TMDL Status | <u></u> | Name | <u></u> |
| Background/Ambient Data | | Data Source | |
| pH (SU) | <u>7.0</u> | Default | <u></u> |
| Temperature (°F) | <u>68</u> | Default | <u></u> |
| Hardness (mg/L) | <u></u> | | <u></u> |
| Other: | <u></u> | | <u></u> |
| Nearest Downstream Public Water Supply Intake | <u>Beaver Falls Municipal Authority</u> | | |
| PWS Waters | <u>Beaver River</u> | Flow at Intake (cfs) | <u>561</u> |
| PWS RMI | <u>3.5</u> | Distance from Outfall (mi) | <u>45.3</u> |

Changes Since Last Permit Issuance: No changes since last permit issuance.

Other Comments: The permittee has had to do some trouble shooting for the facility to ensure he is in compliance. The system has had issues with the UV disinfection system which was believed to be leaking and not allowing the proper contact time for the effluent. He has also replaced the bulbs on more than one occasion due to faulty bulbs. He states that he has been in contact with the manufacturer of the system and they are working together to ensure that the facility is in good working order. The AMR submitted for this year included results of Total Suspended Solids at <5 mg/l, BOD5 at <7.68 mg/l, and Fecal Coliforms at 727 MPN/100 ml. The permittee believes that the high numbers of Fecal Coliform were due to the framework assembly leaking. After getting into contact with the manufacturer of the UV system they believe it is a faulty bulb and they sent the permittee a new bulb.

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) ⁽¹⁾ | | Concentrations (mg/L) | | | | Minimum ⁽²⁾ 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 Daily Min | XXX | 9.0 Daily Max | XXX | Upon Request | 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: Outfall 001, after disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids, and Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Attachment 1
eMap – Location and Receiving Stream Data

The screenshot shows a web-based GIS application interface. At the top, there are tabs for 'Map', 'eFacts Query', 'Advanced Query', and 'Filter Plant Source Search'. Below these are map style options: 'ESRI Streets & Imagery' (selected), 'Topographic', and 'National Geographic'. A toolbar contains various navigation icons like zoom in, zoom out, home, and pan. On the right, a 'Locate Latitude and Longitude' dialog box is open, showing input fields for Latitude (41, 12, 12.76) and Longitude (-80, 10, 56.55) in DD/MM/SS format, with 'Locate' and 'Close' buttons. The main map area shows a satellite-style view with a blue stream segment highlighted. A yellow 'X' marker is placed on the stream with the coordinates 'Latitude: 41.203544 - Longitude: -80.182375'. A popup window titled 'PA Historic Streams (1 of 6)' is open over the stream, displaying the following data:

| | |
|-------------------------|------------------------|
| Name: | Trib 35656 To Pine Run |
| Net Streams: | 117449 |
| Shed: | 20A |
| Named: | 0 |
| Rec No: | 117449 |
| Seg ID: | 35656_0_1.1777 |
| Seg ID Old: | 35656_0_1.1777 |
| From Node: | 43128 |
| To Node: | 43754 |
| Down River Mile: | 0 |
| Up River Mile: | 1.17766 |
| WRDS: | 35656 |
| Strahler: | 1 |

Below the popup, there is a 'Zoom to' link. The map also shows several roads: 'Mercer-Grove-City Rd', 'Cribbs Road Ext', 'ZH Contair Memorial Hwy', 'Silverbrook Ln', 'W Schiestle Rd', and 'Crill Rd'. A scale bar at the bottom left indicates 0, 0.1, and 0.2 miles. The Esri logo is visible in the bottom right corner.

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

Attachment 2
Google Earth – Site Imagery

