

Application Type New
Wastewater Type Sewage
Facility Type SFTF

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

Application No. PA0295507
APS ID 1100801
Authorization ID 1461650

Applicant, Facility and Project Information

| | | | |
|---------------------------|--|------------------|---|
| Applicant Name | <u>Renick Bros Construction Co.</u> | Facility Name | <u>Renick Bros Mech Construction SFTF</u> |
| Applicant Address | <u>434 Grove City Road PO Box 94</u> <u>Slippery Rock, PA 16057-2524</u> | Facility Address | <u>434 Grove City Road</u> <u>Slippery Rock, PA 16057-2524</u> |
| Applicant Contact | <u>Craig Beatty</u> | Facility Contact | <u></u> |
| Applicant Phone | <u>(724) 679-0741</u> | Facility Phone | <u></u> |
| Client ID | <u>62447</u> | Site ID | <u>866659</u> |
| SIC Code | <u>4952</u> | Municipality | <u>Slippery Rock Township</u> |
| SIC Description | <u>Trans. & Utilities - Sewerage Systems</u> | County | <u>Butler</u> |
| Date Application Received | <u>October 23, 2023</u> | WQM Required | <u>Yes – Application Received</u> |
| Date Application Accepted | <u></u> | WQM App. No. | <u>1023419</u> |
| Project Description | <u>This is a new application for a Small Flow Treatment Facility (SFTF) which will serve an existing business.</u> | | |

Summary of Review

This is a new discharge which will serve an existing warehouse with a total of 30 employees (35 GPD/person) and an office with a total of 50 employees (10 GPD/person). The existing structure has a malfunctioning on-lot sewage system that this facility will replace.

Act 14 – Notifications were submitted and received.

Treatment of this facility will consist of (WQM Permit No. 1023419): From the existing structure the sewage will flow to a new 2,000-gallon single compartment septic tank, then through a 1,000-gallon single compartment concrete septic tank in series. A Zabel A300 effluent filter and alarm will be installed at the outlet of the 1,000-gallon septic tank. From the 1,000-gallon tank the effluent will flow to a distribution box which then distributes the effluent to two, Premier Tech EC7-1050-P-PVD Coco Filters in parallel. From the coco filters the treated effluent will flow to a 1,000-gallon dual compartment concrete tank with a Norweco AT1500 UV unit in the second compartment.

There are no open violations in WMS for the subject Client ID (62447) as of 3/5/24.

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 | March 5, 2024 |
| | | Vacant / Environmental Engineer Manager | Okay to Draft JCD 3/11/2024 |

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>.00155</u> |
| Latitude | <u>41° 5' 39.97"</u> | Longitude | <u>-80° 3' 5.35"</u> |
| Quad Name | <u>Slippery Rock</u> | Quad Code | <u>41080A1</u> |
| Wastewater Description: <u>Sewage Effluent</u> | | | |
| Receiving Waters | <u>Unnamed Tributary to Wolf Creek (CWF)</u> | Stream Code | <u>34258</u> |
| NHD Com ID | <u>126222040</u> | RMI | <u>0.1700</u> |
| Drainage Area | <u>2.72</u> | Yield (cfs/mi ²) | <u>0.0109</u> |
| Q ₇₋₁₀ Flow (cfs) | <u>0.0296</u> | Q ₇₋₁₀ Basis | <u>USGS - StreamStats</u> |
| Elevation (ft) | <u>1,231</u> | Slope (ft/ft) | <u>--</u> |
| Watershed No. | <u>20-C</u> | Chapter 93 Class. | <u>CWF</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>60</u> | Default - CWF | <u></u> |
| Hardness (mg/L) | <u></u> | | <u></u> |
| Other: | <u></u> | | <u></u> |
| Nearest Downstream Public Water Supply Intake | <u>PA American Water Company - Ellport</u> | | |
| PWS Waters | <u>Slippery Rock Creek</u> | Flow at Intake (cfs) | <u>53.1</u> |
| PWS RMI | <u>.1</u> | Distance from Outfall (mi) | <u>28.3</u> |

Changes Since Last Permit Issuance: None – This is a new discharge (Planning was approved on October 16, 2023).

Other Comments: This SFTF was designed where applicable in accordance with the SFTF Manual, but it does not qualify for the PAG-04 General Permit due to the use of the EC7 Coco Filter system.

The Coco filter system is reportedly capable of meeting CBOD5 averages of 10 mg/l and TSS averages of 10 mg/l.

In accordance with the SOP, no water quality modeling was performed since this facility will use a UV Disinfection process.

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 | Average Monthly | Maximum | Instant. Maximum | | |
| Flow (GPD) | Report | XXX | XXX | XXX | XXX | XXX | 1/month | Measured |
| pH (S.U.) | XXX | XXX | 6.0 Inst Min | XXX | XXX | 9.0 | Upon Request | Grab |
| BOD5 | XXX | XXX | XXX | 10.0 | XXX | 20.0 | 1/month | Grab |
| TSS | XXX | XXX | XXX | 10.0 | XXX | 20.0 | 1/month | Grab |
| Fecal Coliform (No./100 ml) | XXX | XXX | XXX | 200 Geo Mean | XXX | XXX | 1/month | 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 displays a web-based GIS application interface. At the top, there are navigation tabs: "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 standard GIS navigation icons. A "Locate Latitude and Longitude" dialog box is open on the right, showing input fields for Latitude (41, 5, 40.1) and Longitude (-80, 3, 5.23) in DD/MM/SS format, with "Locate" and "Close" buttons. The main map area shows a stream network in blue on a tan background. A yellow 'X' marks a specific location on the stream, with a popup window titled "PA Historic Streams (1 of 6)" displaying the following data:

- Name: Trib 34258 To Wolf Creek
- Net Streams: 87695
- Shed: 20C
- Named: 0
- Rec No: 87695
- Seg ID: 34258_1.1295_1.7608
- Seg ID Old: 34258_1.1295_1.7608
- From Node: 48209
- To Node: 48561
- Down River Mile: 1.129548
- Up River Mile: 1.760788
- WRDS: 34258
- Strahler: 3

The popup also includes a "Zoom to" link. The map shows roads labeled "Reddick Ln", "Sankey Ln", and "Grove City Rd" (with a 173 shield). A scale bar at the bottom left indicates 0, 0.1, and 0.2 miles. The "esri" logo is 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

