

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0295477
APS ID 1100423
Authorization ID 1460906

Applicant, Facility and Project Information

Applicant Name	<u>Amy Bruno</u>	Facility Name	<u>Amy Bruno SRSTP</u>
Applicant Address	<u>522 Branchton Road</u> <u>Slippery Rock, PA 16057-3214</u>	Facility Address	<u>522 Branchton Road</u> <u>Slippery Rock, PA 16057-3214</u>
Applicant Contact	<u>Amy Bruno</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 556-1023</u>	Facility Phone	<u></u>
Applicant Email	<u>bruno.kyle@yahoo.com</u>		
Client ID	<u>380866</u>	Site ID	<u>866427</u>
SIC Code	<u>8800</u>	Municipality	<u>Slippery Rock Township</u>
SIC Description	<u>Private Households</u>	County	<u>Butler</u>
Date Application Received	<u>October 12, 2023</u>	WQM Required	<u>Yes</u>
Date Application Accepted	<u>January 12, 2024</u>	WQM App. No.	<u>1023418</u>
Project Description	<u>Installation of a new Single Residence Sewage Treatment Plant</u>		

Summary of Review

This is a new discharge for an existing 3 bedrooms dwelling with proposed construction of a single residence sewage treatment plant. The average daily flow is projected to be 400 GPD. *This project will repair/replace a malfunctioning on-lot sewage disposal system.* JCD

Proposed treatment will consist of (WQM Permit No. 1023418): A Premier Tech EC7-500-P-P Pack coco filter unit with an integrated DiUV unit and pump preinstalled by the manufacturer. The treated effluent will discharge on the owner's property into a drainage channel on the owner's property that flows to McDonald Run.

Act 14 – Proof of Notification was submitted and received.

Act 537 Sewage Facilities Planning Module Component 3s was approved by the department on October 12, 2023.

SPECIAL CONDITIONS: NONE

The EPA waiver is in effect.

There are NO open violations in WMS for the subject Client ID (380866) as of January 12, 2024.

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		Aeshah Shameseldin Aeshah Shameseldin / Civil Engineer	January 12, 2024
		Vacant / Environmental Engineer Manager	Okay to Draft JCD 1/16/2024

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>.0004</u>
Latitude	<u>41° 4' 20.71"</u>	Longitude	<u>-79° 59' 6.17"</u>
Quad Name	<u>West Sunbury</u>	Quad Code	<u>41079A8</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>McDonald Run (CWF)</u>	Stream Code	<u>34574</u>
NHD Com ID	<u>126223047</u>	RMI	<u>Confluence with McDonald Run 34574 is at 1.1 RMI</u>
Drainage Area	<u></u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u>0</u>	Q ₇₋₁₀ Basis	<u>Dry Channel</u>
Elevation (ft)	<u>1215</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>68</u>	Default	<u></u>
Hardness (mg/L)	<u>100</u>	Default	<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Beaver Falls Municipal Authority - Eastvale</u>		
PWS Waters	<u>Beaver River</u>	Flow at Intake (cfs)	<u>561</u>
PWS RMI	<u>5</u>	Distance from Outfall (mi)	<u>---</u>

Changes Since Last Permit Issuance: N/A -This is a proposed discharge (Planning was approved on October 12, 2023).

Other Comments: This SRSTP 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 a Premier Tech EC7-500-P-P Pack coco filter unit.

The Premier Tech EC7-500-P-P Pack coco filter unit is reportedly capable of meeting BOD5 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 is an SRSTP.

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 (GPD)	Report Annl Avg	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	Upon Request	Grab
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: Outfall 001, after UV disinfection.

Other Comments: Flow is monitor only based on Chapter 92a.61. The limits for BOD5, Total Suspended Solids are BPJ-based on the Department’s “Small Flow Treatment Facilities Manual.” Fecal Coliform are technology-based on Chapter 92a.47. The limits for pH are technology-based on Chapter 93.7.

Outfall Location - eMap with Aerial Imagery

Legend

- Regulated Facilities and Related Information
- Streams and Water Resources
 - Water Quality
 - Existing Use Streams
 - Cold Water Fish
 - Exceptional Value
 - High Quality
 - Trout Stocking
 - Warm Water Fish
 - Overlap
 - Designated Use Streams
 - Cold Water Fish
 - Exceptional Value
 - High Quality
 - Trout Stocking
 - Warm Water Fish
 - Overlap
 - Missing from CH93
 - Boundaries
 - County Boundaries
 - Municipalities

Map | eFacts Query | Advanced Query | Filter Plant Source Search

ESRI Streets & Imagery | Topographic | National Geographic

Latitude: 41.07419 Longitude: -79.985047

Designated Use Streams (1 of 3)

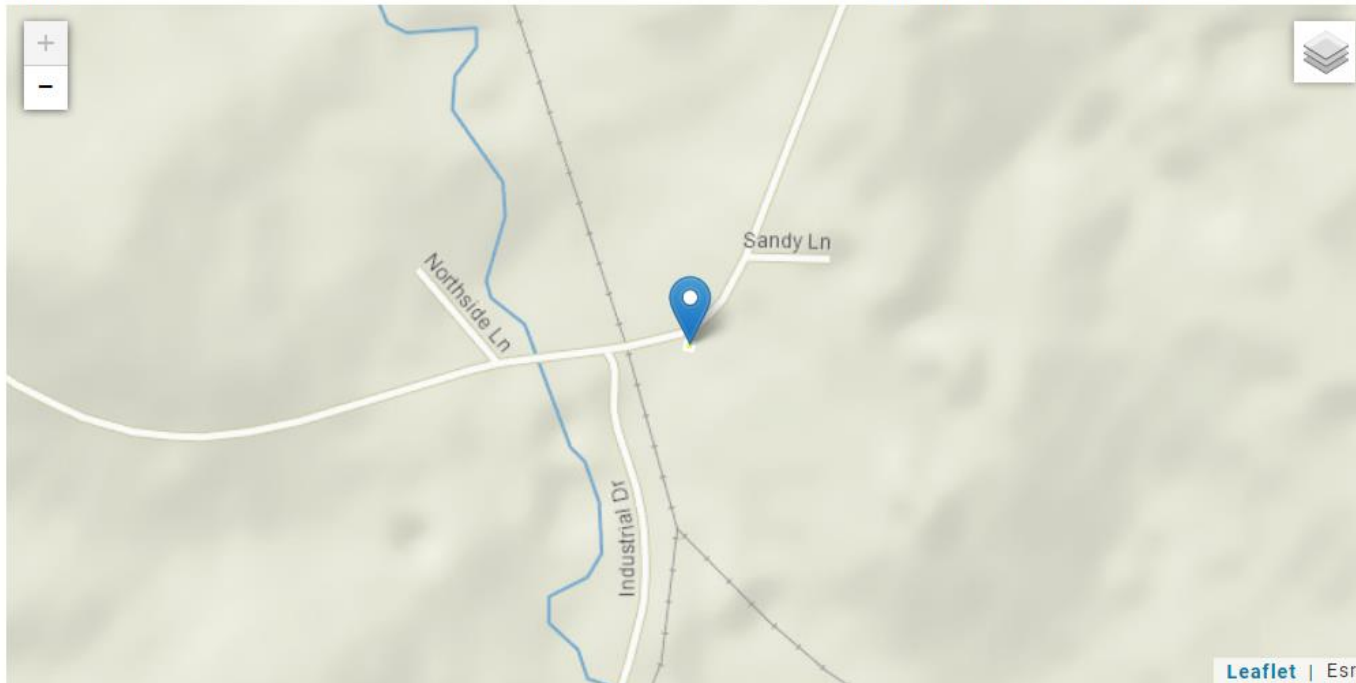
- Designated Use Gen ID: 58688
- GNIS Name: McDonald Run
- GNIS ID: 01180693
- ReachCode: 05030105000395
- COMID: 126223047
- Length Miles: 1.867
- Map Symbology: CWF
- Length Miles: 1.867
- Designated Use: 1
- DES Use ID: 1
- Use Description: CWF(COLD WATER FISHES)
- Migratory_Fish: N
- HUC: 05030105
- Basin: N
- Basin Narrative: Null
- Segment Narrative: Null
- Evaluation Date: Null
- Last Fdir Date: Null
- Zoom to

Imagery: undefined; 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

Drainage Area Location – StreamStats with Aerial Imagery

StreamStats Report

Region ID: PA
Workspace ID: PA20240112183816568000
Clicked Point (Latitude, Longitude): 41.07244, -79.98504
Time: 2024-01-12 13:38:45 -0500



⊕ Collapse All

➤ Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.0000386	square miles