

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

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

Application No. PA0295540
APS ID 1102441
Authorization ID 1464622

Applicant, Facility and Project Information

Applicant Name	<u>Melissa A Smith</u>	Facility Name	<u>Melissa A Smith SRSTP</u>
Applicant Address	<u>145 Pennsy Road</u> <u>Volant, PA 16156</u>	Facility Address	<u>145 Pennsy Road</u> <u>Volant, PA 16156-1627</u>
Applicant Contact	<u>Melissa Smith</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 421-9591</u>	Facility Phone	<u></u>
Client ID	<u>381442</u>	Site ID	<u>867143</u>
SIC Code	<u>8800</u>	Municipality	<u>Springfield Township</u>
SIC Description	<u>Private Households</u>	County	<u>Mercer</u>
Date Application Received	<u>November 21, 2023</u>	WQM Required	<u>Yes – Application Received</u>
Date Application Accepted	<u></u>	WQM App. No.	<u>4323418</u>

Project Description This is a new application for a Single Residence Sewage Treatment Plant (SRSTP) which will serve an existing dwelling.

Summary of Review

This is a new discharge which will serve an existing 3-bedroom home and replace an existing malfunctioning on-lot disposal system.

Act 14 – Notifications were submitted and received.

The proposed treatment system will consist of (WQM Permit No. 4323418): A Premier Tech EC7-500-P-P-PACK-DiUV Coco filter with an integrated DiUV and pump.

There are NO open violations in WMS for the subject Client ID (381442) as of 4/16/24.

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	April 16, 2024
		Vacant / Environmental Engineer Manager	Okay to Draft JCD 4/23/2024

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° 7' 13.23"</u>	Longitude	<u>-80° 12' 24.87"</u>
Quad Name	<u>Harlansburg</u>	Quad Code	<u>41080A2</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Hunters Run (TSF)</u>	Stream Code	<u>35627</u>
NHD Com ID	<u>130028581</u>	RMI	<u>0.4000</u>
Drainage Area	<u>0.15</u>	Yield (cfs/mi ²)	<u>0.0057</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00085</u>	Q ₇₋₁₀ Basis	<u>USGS - StreamStats</u>
Elevation (ft)	<u>1,224</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>100</u>	Default	<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>41.1</u>

Changes Since Last Permit Issuance: None – This is a new discharge (Planning was approved on November 20, 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 the EC7 treatment system.

The Coco filter treatment system is reportedly capable of BOD5 averages of 10 mg/L and TSS averages of 10 mg/L. This facility is not expected to impact the quality of the receiving stream.

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
BOD5	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	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 displays an eMap 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. On the right, a 'Locate Latitude and Longitude' dialog box is open, showing input fields for Latitude (41, 7, 13.23) and Longitude (-80, 12, 24.87) in DD/MM/SS format, with 'Locate' and 'Close' buttons. A popup window titled 'PA Historic Streams (1 of 6)' is overlaid on the map, displaying the following data for a selected stream segment:

- Name: Trib 35627 To Neshannock Creek
- Net Streams: 117674
- Shed: 20A
- Named: 0
- Rec No: 117674
- Seg ID: 35627_2.2807_3.9671
- Seg ID Old: 35627_2.2807_3.9671
- From Node: 47452
- To Node: 46729
- Down River Mile: 2.280661
- Up River Mile: 3.967139
- WRDS: 35627
- Strahler: 1

The popup also includes a 'Zoom to' link. The map shows a stream network with a yellow 'X' marker at the location of the popup. The coordinates 'Latitude: 41.120342 - Longitude: -80.199139' are displayed near the marker. The map includes a scale bar (0 to 0.2 miles) and the Esri logo. At the bottom, there is a footer with source information and a Microsoft Teams window titled 'Excel | Microsoft Teams classic'.

Attachment 2
Google Earth – Site Imagery

