

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0294560
APS ID 1124955
Authorization ID 1507513

Applicant, Facility and Project Information

Applicant Name <u>Nicole D. Keemer</u>	Facility Name <u>334 Steinman Farm Road SRSTP</u>
Applicant Address <u>334 Steinman Farm Road</u>	Facility Address <u>334 Steinman Farm Road</u>
<u>Pequea, PA 17565</u>	<u>Pequea, PA 17565</u>
Applicant Contact <u>Nicole Keemer</u>	Facility Contact <u>Nicole Keemer</u>
Applicant Phone <u>(717) 587-6904</u>	Facility Phone <u>(717) 587-6904</u>
Client ID <u>389160</u>	Site ID <u>873052</u>
SIC Code <u>4952</u>	Municipality <u>Martic Township</u>
SIC Description <u>Trans. & Utilities - Sewerage Systems</u>	County <u>Lancaster</u>
Date Application Received <u>November 20, 2024</u>	WQM Required <u>Yes</u>
Date Application Accepted <u>November 27, 2024</u>	WQM App. No. <u>3624405</u>
Project Description <u>New NPDES Permit for SRSTP.</u>	

Summary of Review

An application was submitted requesting approval for a new NPDES and WQM permit for discharge of treated sewage from a single residence sewage treatment plant (SRSTP) located in Martic Township, Lancaster County. DEP received applications for the NPDES and WQM permits on November 20, 2024. Individual NPDES and WQM permits are required since the proposed system is discharging to an HQ stream.

Based on the review outlined in this fact sheet, it is recommended that the NPDES permit be drafted and published in the PA Bulletin for public comment for 30 days.

There are currently no open violations for this Applicant. Supplemental documents are attached to the end of this fact sheet.

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		Benjamin R. Lockwood Benjamin R. Lockwood / Environmental Engineering Specialist	March 31, 2025
X		Daniel W. Martin Daniel W. Martin, P.E. / Environmental Engineer Manager	April 17, 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	39° 53' 9.708"	Longitude	76° 19' 25.068"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary to Tucquan Creek (HQ-CWF, MF)	Stream Code	7421
NHD Com ID	57469351	RMI	2.2
Drainage Area	0.0889 mi ²	Yield (cfs/mi ²)	0.1
Q ₇₋₁₀ Flow (cfs)	0.00925	Q ₇₋₁₀ Basis	USGS PA StreamStats
Elevation (ft)	646	Slope (ft/ft)	
Watershed No.	7-K	Chapter 93 Class.	HQ-CWF, MF
Existing Use	N/A	Existing Use Qualifier	N/A
Exceptions to Use	N/A	Exceptions to Criteria	N/A
Assessment Status	Impaired		
Cause(s) of Impairment	E. Coli		
Source(s) of Impairment	Agriculture		
TMDL Status	N/A	Name	N/A
Nearest Downstream Public Water Supply Intake	Holtwood Power Plant		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	6.1

Changes Since Last Permit Issuance: None (new permit)

Other Comments: None

Treatment Facility Summary

The facility will be designed to serve a three-bedroom residential home located at 334 Steinman Farm Road. This system will replace an existing malfunctioning onlot disposal system. The design flow for the dwelling will be 400 gallons per day (gpd). The proposed treatment process, according to the application, is as follows:

1,500-gallon two compartment septic tank – pressurized dosed in-ground 16' x 47' sand filter with 500 gallon dosing tank with Goulds pumps – UV Disinfection - Gravity stream discharge to Outfall 001 to UNT of Tucquan Creek.

Based on the review, it is recommended that the WQM Permit be issued with standard sewage conditions upon issuance of the NPDES permit.

Compliance History

On September 3, 2024, DEP approved the Act 537 Planning as a revision to the Act 537 official sewage facilities plan of Martic Township (DEP Code No. A3-36940-212-3S).

This is a new facility; therefore, there are no effluent sample results / inspection reports associated with this facility.

Development of Effluent Limitations

The effluent limitation and monitoring requirements are derived from the Department's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003). According to the SOP referenced above, water quality monitoring using PentoxSD and/or WQM are not required for SRSTPs.

The facility will discharge less than 2,000 gpd and is exempt from Bay nutrient evaluations and requirements.

The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. This discharge is not expected to impact any High-Quality Waters. No Exceptional Value Waters are impacted by this discharge.

The receiving stream is located on a stream segment that is designated as impaired. There is an aquatic life impairment due to E. Coli from agriculture. There is an effluent limit for fecal coliform, and this facility will not contribute significantly to these impairments.

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
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

Other Comments: None