

Application Type New
Wastewater Type Sewage
Facility Type SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0281964
APS ID 1135982
Authorization ID 1524574

Applicant, Facility and Project Information

Applicant Name <u>Brian J Johnson</u>	Facility Name <u>1387 Leidigh Drive SRSTP</u>
Applicant Address <u>1387 Leidigh Drive</u>	Facility Address <u>1387 Leidigh Drive</u>
<u>Boiling Springs, PA 17007-9659</u>	<u>Boiling Springs, PA 17007-9659</u>
Applicant Contact <u>Brian Johnson</u>	Facility Contact <u>Brian Johnson</u>
Applicant Phone <u>(717) 802-6333</u>	Facility Phone <u>(717) 802-6333</u>
Client ID <u>336564</u>	Site ID <u>879682</u>
SIC Code <u>1522</u>	Municipality <u>Monroe Township</u>
SIC Description <u>Construction - Residential Construction, Nec</u>	County <u>Cumberland</u>
Date Application Received <u>April 23, 2025</u>	WQM Required <u>Yes</u>
Date Application Accepted <u>April 30, 2025</u>	WQM App. No. <u>2125401</u>
Project Description <u>New NPDES Permit.</u>	

Summary of Review

This report supports the issuance of an NPDES permit for discharge of treated sewage from a new single residence sewage treatment plant (SRSTP) expected to be located in Monroe Township, Cumberland County. This new SRSTP will replace an existing malfunction on-lot system for the existing residential unit. The WQM permit application is also received and the IRR has been prepared separately for the WQM permit.

Based on the review, it is recommended that the NPDES permit be drafted.

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		<i>Jinsu Kim</i> Jinsu Kim / Environmental Engineering Specialist	May 6, 2025
X		<i>Daniel W. Martin</i> Daniel W. Martin, P.E. / Environmental Engineer Manager	May 16, 2025

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0006</u>
Latitude	<u>40° 8' 17.50"</u>	Longitude	<u>-77° 5' 14.77"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary of Yellow Breeches Creek (HQ-CWF, MF)</u>	Stream Code	<u></u>
NHD Com ID	<u>56407523</u>	RMI	<u>0.0200</u>
Drainage Area	<u></u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u></u>	Q ₇₋₁₀ Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>7-E</u>	Chapter 93 Class.	<u>HQ-CWF, MF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Not Assessed</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u>Name</u>		
Nearest Downstream Public Water Supply Intake	<u>Suez Mechanicsburg</u>		
PWS Waters	<u>Yellow Breeches Creek</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>18</u>

Drainage Area / Stream Flow

The discharge will be to an unnamed tributary to Yellow Breeches Creek. DEP's eMapPa shows no indication of streams nearby and the nearest one is Yellow Breeches Creek about 0.1 mile from the site. USGS StreamStats does not provide delineation stream line at the point of discharge; a drainage area and low flows at the point of discharge is therefore unachievable.

Unnamed Tributary of Yellow Breeches Creek

Under 25 Pa Code §93.9o, unnamed tributaries of Yellow Breeches Creek from source to LR 21012 have the protected water use of High Quality-Cold Water fishes and Migratory Fishes (HQ-CWF, MF). DEP's latest integrated water quality report finalized in 2024 indicates that the receiving stream (or the nearby Yellow Breeches Creek watershed) is not impaired.

Public Water Supply Intake

Based on DEP's eMapPa, the nearest downstream public water supply intake is Suez Mechanicsburg located on the Yellow Breeches Creek approximately 18 miles from the proposed discharge point. Given the distance, the proposed discharge is not expected to affect the water supply.

Compliance History

Summary of DMRs:		This is a new NPDES permit; therefore, no AMR is available for review.
Summary of Inspections:		There is no open violation associated with this facility or permittee.

Treatment Facility Summary

The proposed treatment system will be located in Monroe Township, Cumberland County. The proposed treatment system will serve an existing single family residence with 5 bedrooms (600 GPD) that have a malfunctioned on-lot system. The proposed treatment system will consist of an existing 1,000-gallon septic tank, a new 1,500 gallon two-compartment septic tank, Premier Tech Aqua EC5-ECC-860-C filtration, UV disinfection and outfall structure. The details of the proposed system are described in the Internal Review and Recommendation (IRR) report for the WQM permit application. The Official Act 537 Plan Revision was approved on March 27, 2025 (no. A3-21916-236-3s).

Development of Effluent Limitations and Monitoring Requirements

The proposed effluent limitations and monitoring requirements are derived from DEP's Standard Operating Procedure (SOP) for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003). While the SOP recommends permit writers to implement the Antidegradation Best Available Combination of Technologies (ABACT) specified in DEP's guidance no. 391-0300-002 for those that are considered new discharges to special protection waters, the effluent limits specified in the SOP are more stringent than ABACT for certain parameters (i.e., no seasonal limits for CBOD and TSS effluent limit is 10 mg/L rather than 20 mg/L) and SRSTPs typically are not designed for nitrification given the low volume and discharge frequency of its treated wastewater. As such, DEP has determined that effluent limits and monitoring requirements specified in the SOP are more adequate than ABACT.

Facilities that are designed based on a flow of less than 2,000 GPD or considered as SRSTPs are exempt from the Bay requirements. Accordingly, it is not necessary for the permittee to perform nutrient monitoring.

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
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