

Application Type Renewal
Wastewater Type Sewage
Facility Type SRSTP

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Application No. PA0266833
APS ID 981036
Authorization ID 1454997

Applicant, Facility and Project Information

Applicant Name	<u>Mike E & Rebecca L Stamy</u>	Facility Name	<u>575 Mountain Road SRSTP</u>
Applicant Address	<u>575 Mountain Road</u> <u>Boiling Springs, PA 17007-9520</u>	Facility Address	<u>575 Mountain Road</u> <u>Boiling Springs, PA 17007</u>
Applicant Contact	<u>Rebecca Stamy</u>	Facility Contact	<u>Mike Stamy</u>
Applicant Phone	<u>(717) 258-9394</u>	Facility Phone	<u>(717) 258-9394</u>
Client ID	<u>346475</u>	Site ID	<u>832942</u>
SIC Code	<u>6514</u>	Municipality	<u>South Middleton Township</u>
SIC Description	<u>Fin, Ins & Real Est - Dwelling Operators, Except Apartments</u>	County	<u>Cumberland</u>
Date Application Received	<u>September 14, 2023</u>	WQM Required	<u>No</u>
Date Application Accepted	<u>October 11, 2023</u>	WQM App. No.	<u></u>
Project Description	<u>NPDES Renewal.</u>		

Summary of Review

The applicant has applied to the Department for reissuance of its NPDES permit to discharge treated sewage from a single residence sewage treatment plant (SRSTP) located in South Middleton Township, Cumberland County. The permit was originally issued on March 14, 2019 and became effective on April 1, 2019. The permit expired on March 31, 2024 but the terms have been administratively extended since that time.

Based on the review, it is recommended that the 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		Jinsu Kim Jinsu Kim / Environmental Engineering Specialist	September 5, 2024
X		Maria D. Bebenek for Daniel W. Martin, P.E. / Environmental Engineer Manager	September 5, 2024
X		Maria D. Bebenek Maria D. Bebenek, P.E. / Program Manager	September 5, 2024

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	.0005
Latitude	40° 7' 6.76"	Longitude	-77° 8' 3.71"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Old Town Run	Stream Code	63157
NHD Com ID	56408031	RMI	2.04
Drainage Area	1.39	Yield (cfs/mi ²)	0.046
Q7-10 Flow (cfs)	0.0639	Q7-10 Basis	USGS Stream Stats
Elevation (ft)		Slope (ft/ft)	
Watershed No.	07E	Chapter 93 Class.	High Quality-Cold Water, Migratory Fish
Existing Use	None	Existing Use Qualifier	None
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Impaired		
Cause(s) of Impairment	Siltation		
Source(s) of Impairment	Source Unknown		
TMDL Status	Name		
Nearest Downstream Public Water Supply Intake	SUEZ Water Company		
PWS Waters	Yellow Breeches Creek	Flow at Intake (cfs)	
PWS RMI	7.4	Distance from Outfall (mi)	~23

Drainage Area/Stream Flows:

The discharge will be to Old Town Run at 2.04 RMI. A drainage area upstream of the point of proposed discharge is estimated to be 1.39 sq.mi., according to USGS StreamStats available at <https://streamstats.usgs.gov/ss/>. USGS StreamStats also produced a Q7-10 flow of 0.0639 cfs at the point of proposed discharge.

Point of First Use

A Point of First Surface Water Use survey was conducted on the receiving stream by DEP's biologist. The survey concluded that the point of first surface water use for this stream is at the proposed discharge point.

Old Town Run

Under 25 Pa Code §93.9o, Old Town Run is designated as a High Quality-Cold Water and Migratory fishes. DEP's 2024 integrated water quality report indicates that the receiving stream near the point of proposed discharge is impaired for siltation as a result of unknown source. No TMDL has been yet developed to address this impairment. While Old Town Run is considered a Trout Natural Reproduction stream, it does not support a Class A Wild Trout fishery. Therefore, no Class A Wild Trout fishery is impacted by this discharge. As part of the protection of special protection waters and water quality degradation prevention, permit requirements will be developed to ensure that existing water quality be maintained and protected in accordance with 25 Pa Code §93.4a(c).

Public Water Supply Intake

Based on the fact sheet developed for the last permit issuance, the nearest downstream public water supply intake is SUEZ Water Company located on Yellow Breeches Creek, approximately 23 miles from the point of proposed discharge. Given the nature and distance, the proposed discharge is not expected to impact the water supply.

Anti-Degradation Requirements (25 Pa Code § 93.4a)

A site-specific anti-degradation analysis was prepared and submitted by Marshall Engineering as part of Act 537 planning module. In accordance with 25 Pa Code § 93.4c.(b)(1)(i)(A) and (B), this analysis included possible non-discharge

alternatives (i.e., on-site sewage disposal, individual residential spray irrigation, connection to public sewer). However, the applicant indicated that these alternatives are not environmentally sound and cost-effective due to unsuitable soils and unavailable local wastewater treatment facilities nearby the property.

The applicant, according to a social or economic justification (SEJ), determined that the only alternative other than a small flow treatment facility would be a holding tank which would cause a hardship to the property owners. The planning module with this SEJ and alternate analysis was approved by DEP on May 2, 2018 (DEP Code no. A3-21926-486-3S).

Treatment Facility Summary

The facility serves the existing 4-bedroom single family residence (500 GPD) located at 575 Mountain Road, Boiling Springs, PA 17007. The facility is owned and maintained by Mike Stamy and Rebecca Stamy. The treatment process is as follows:

One (1) 1,250-gallon two (2)-compartment septic tank with Polylock PL-122 filter→ a 800-gallon recirculating tank with Orenco AdvanTex Treatment System including UV disinfection (AdvanTex AX20RTUV) – 4" PVC outfall pipe to Old Town Run.

The Orenco AdvanTex system was approved and classified by the Department as an alternate on-lot sewage treatment system which demonstrated the ability of the system to achieve secondary treatment.

Compliance History

The Department has conducted an administrative inspection on August 3, 2020 and indicated that the permittee has submitted an AMR and the septic tank has been pumped out. No violations are noted at the time of inspection.

DEP's database shows that there is no open violation associated with this permittee or facility as of the date of this fact sheet.

Development of Effluent Limitations and Monitoring Requirements

The 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).

The draft permit will include the following Part C conditions:

- a. Small Flow Treatment Facility Maintenance, including measurement of the depth of septage and scum, 5-year septic tank pumping requirement, reporting requirement of a completed Annual Maintenance Form.
- b. Stormwater Prohibition
- c. Property Rights
- d. Proper Disposal of Solids
- e. Connection to a local municipal sewage facility

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
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