Pennsylvania Department of Environmental Protection

Southcentral Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0085715**
Wastewater Type	**Sewage**	APS ID	**1133586**
Facility Type	**SRSTP**	Authorization ID	**1520546**

NPDES PERMIT FACT SHEET INDIVIDUAL SFTF/SRSTP

Applicant, Facility and Project Information

Applicant Name	**Yoder, Dru**	Facility Name	**Yoder Residence**
Applicant Address	504 Hemlock Lane	Facility Address	504 Hemlock Lane
	Lebanon, PA 17042-9015		Lebanon, PA 17042-9015
Applicant Contact	Dru Yoder	Facility Contact	Dru Yoder
Applicant Phone	(570) 412-5596	Facility Phone	(717) 273-3103
Client ID	391666	Site ID	237937
SIC Code	4952	Municipality	Cornwall Borough
SIC Description	Trans. & Utilities - Sewerage Systems	County	Lebanon
Date Application Received	March 21, 2025	WQM Required	
Date Application Accepted	April 10, 2025	WQM App. No.	3893402 T-1

Project Description: Permit renewal for discharge of treated sewage.

Summary of Review

1.0 General Discussion

This factsheet supports the renewal of an existing NPDES permit for a discharge of treated domestic sewage from a small flow wastewater treatment plant that serves a single residential home located at 504 Hemlock Lane, Lebanon. The home was purchased by the Yoder family during the past permit cycle. The Department received a transfer application with the permit renewal. The permit will be renewed in the name of the new owner and the WQM with permit number 3893402 will be transferred with the renewed permit. The treatment plant has a design capacity of 0.0004 mgd, and discharges to an unnamed tributary of Shearers Creek which is classified for High-Quality Cold-Water Fishes (HQ-CWF) and Migratory Fishes (MF). Previous protection reports and factsheets indicated that, in 1993, planning section mistakenly gave approval to the new residence to discharge to a high-quality stream. Discussions with the Acting Program Manager at that time resulted in the decision to issue an NPDES permit at effluent limits that would not result in instream measurable change from BAT levels (waving SEJ approvals) based on the September 7, 1983 Antidegradation Policy. An NPDES permit for secondary treatment with NH_3 limit was issued in 1994 and renewed the same in 1999 with two complete analyses each year. The limits have been in the permit for subsequent permit renewals. The treatment system consists of a septic tank followed by a jet aerobic tank, dosing tank, 50-ft2 free access filter, tablet chlorination, and a chlorine contact tank with discharge to the UNT. The facility does not qualify for a general permit because the design deviates from DEPs small flow facility manual and the discharge goes to high quality water.

The existing NPDES permit was issued on August 20, 2020, with an effective date of September 1, 2020, and expiration date of August 31, 2025. The applicant submitted permit renewal application to the Department and is currently operating under the terms and conditions in the existing permit pending Department action on the renewal application. A topographical map showing the discharge location is presented in attachment A

Approve	Deny	Signatures	Date
X		*J. Pascal Kwedza* J. Pascal Kwedza, P.E. / Environmental Engineer	March 11, 2026
x		*Maria D. Bebenek* for Daniel W. Martin, P.E. / Environmental Engineer Manager	March 19, 2026
x		*Maria D. Bebenek* Maria D. Bebenek, P.E., Program Manager	March 19, 2026

Summary of Review

1.1 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.

1.2 Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.0004
Latitude	40° 14’ 57.00”	Longitude	76° 25’ 35.00”
Quad Name	Manheim	Quad Code	1734
Wastewater Description:	Sewage		
Receiving Waters	Unnamed Tributary to Shearers Creek	Stream Code	08014
NHD Com ID	57461695	RMI	0.2
Drainage Area	0.7	Yield (cfs/mi^2)	
Q_{7-10} Flow (cfs)	0.175	Q_{7-10} Basis	
Elevation (ft)		Slope (ft/ft)	
Watershed No.	7-G	Chapter 93 Class.	HQ-CWF, MF
Existing Use		Existing Use Qualifier	
Exceptions to Use		Exceptions to Criteria	
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment			
Source(s) of Impairment			
TMDL Status		Name	

Background/Ambient Data		Data Source
pH (SU)		
Temperature (°F)		
Hardness (mg/L)		
Other:		

Nearest Downstream Public Water Supply Intake	Colombia Borough		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	
PWS RMI		Distance from Outfall (mi)	< 40

Changes Since Last Permit Issuance: none**.**

1.3 Public Water Supply

The nearest downstream public water supply is the Colombia Borough, located approximately 40 miles from the discharge point on Susquehanna River. Based on the quantity/quality of the discharge from this facility, the discharge is not expected to impact the water supply.

1.4 Existing Effluent Limitations and Monitoring Requirement

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
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	1/month	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	1/year	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab
Ammonia	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab

1.5. Compliance History

The permittee has been submitting the required monitoring reports regularly. TSS, CBOD5 and Fecal Coliform limits are within permit limits. TRC appeared to be generally within the recommended range. Proof that septic tank pumping occurred within the last 3-5 years was submitted with the renewal application**.** The facility was last inspected on 6/10/25. The inspection report indicates the facility is maintained and operated well.

1.6 Development of Effluent Limitations

1.6.1 The existing secondary treatment limits in the permit are less stringent than the technology limits recommended in DEP's Standard Operating Procedure (SOP) for Clean Water Program New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications SOP No. BCW-PMT-003 Final, November 9, 2012, Revised, November 9, 2023 Version 1.8, and the existing general permit for Small Flow Treatment Facilities. The treatment facility was installed in 1994 and cannot meet the technology limits recommended in the SOP. Therefore, the existing limitation of 25mg/l CBOD5 and 30mg/l TSS with monitoring frequency of 1/year will remain in the permit. The existing ammonia limitation based on September 7, 1983 Antidegradation Policy will remain in the permit. Total Residual Chlorine (TRC) calculation is waived for residential small flow treatment facilities. Existing monitoring requirement in the existing permit will continue in the current renewal. The existing Fecal Coliform limit of 200/100 ml. is consistent with current requirements and will remain with 1/year monitoring frequency. Monthly average flow estimation is required. Limitation on pH for small flow systems is not usually required but due to the discharge going to HQ-CWF, the pH limitation of 6-9 S.U in the existing permit will be retained with upon request reporting requirement.

1.6.2 Per the SOP referenced above, Water quality modeling using TMS and/or WQM models are not required for discharges from SFTFs.

1.6.3 The facility discharges less than 2000 gpd and is exempted from Bay nutrient evaluations and requirements.

1.6.4 The effluent limits for this discharge have been developed to ensure that the 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 have any negative impact on the High-Quality Water. No Exceptional Value Waters are impacted by this discharge.

1.6.5 No Class A Wild Trout Fisheries are impacted by this discharge.

1.7 The following conditions are listed in Part C of the permit:

- Annual Maintenance Report Requirement
- Measurement requirement of depth of septage and scum in all treatment units
- Septic & Treatment tank pumping requirement
- Chlorine Minimization
- Prohibition of Stormwater Discharges
- Collected screenings and solids Handling
- Abandonment of the treatment facility for public sewers

2.0 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
TRC	XXX	XXX	XXX	Report Avg Mo	XXX	XXX	1/month	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50	1/year	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	1/year	Grab
Ammonia	XXX	XXX	XXX	10.0	XXX	20	1/year	Grab

Compliance Sampling Location: At Outfall 001

Attachments

A. Topographical Map