

Application Type Renewal
Wastewater Type Sewage
Facility Type SFTF

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

Application No. PA0057401
APS ID 1127426
Authorization ID 1509483

Applicant, Facility and Project Information

Applicant Name	<u>Pennbow, LLC</u>	Facility Name	<u>Pennbow SFSTP</u>
Applicant Address	<u>6801 Easton Road</u> <u>Pipersville, PA 18947-9717</u>	Facility Address	<u>6801 Easton Road</u> <u>Pipersville, PA 18947-9717</u>
Applicant Contact	<u>Dan Wurst</u>	Facility Contact	<u>Daniel Wurst</u>
Applicant Phone	<u>(267) 718-3861</u>	Facility Phone	<u>(267) 718-3861</u>
Client ID	<u>345175</u>	Site ID	<u>481411</u>
SIC Code	<u>8811</u>	Municipality	<u>Bedminster Township</u>
SIC Description	<u>Services - Private Households</u>	County	<u>Bucks</u>
Date Application Received	<u>December 2, 2024</u>	WQM Required	<u></u>
Date Application Accepted	<u></u>	WQM App. No.	<u></u>
Project Description	<u>NPDES Permit renewal to discharge treated sewage.</u>		

Summary of Review

The applicant requests renewal of National Pollutant Discharge Elimination System (NPDES) permit to discharge 600 gallons per day (GPD) of treated sewage into unnamed tributary to Cabin Run from the SFSTP serving Pennbow LLC., an office building. The treated sewage is hold into an effluent holding tank and pumped into a stormwater drain which ultimately discharges into Unnamed Tributary to Cabin Run which is classified as Cold-Water Fishes (CWF) and Migratory Fishes (MF) in state watershed 2-D.

The sewage treatment plant consists of septic tank, a Bio Microbic package plant, one dosing tank, a sand filter, and a chlorinator. The treatment process is an MBR system with secondary treatment and Total Nitrogen reduction. Disinfection is accomplished by chlorine tablet. The effluent flow is only about 200 gallons per day. The effluent limits are based on groundwater protection requirements as the discharge is in the dry stream. The original NPDES permit was approved for design flow of 1405 GPD with Total Nitrogen limit of 10 mg/l. However, actual flow from the treatment plant was only about 300 GPD due to downsizing of office staff. During the permit renewal about fifteen years back, the applicant contacted 537 Sewage Facilities Planning Section for flow reduction and Nitrogen limit adjustments. Applicant submitted an application for Sewage Facilities Planning Module for reduction of flow from 1,405 gpd to 600 gpd and Preliminary Hydrogeological Study for relaxation in Total Nitrogen limits to Planning Section. Based on the review and evaluation of these documents, Mr. Peter Evans, P.G., recommended relaxing Total Nitrogen limit from 10 mg/l to 36 mg/l to protect groundwater resources through memo dated June 30, 2009. We revised the flow from 1,405 gpd to 600 gpd and relaxed the Total Nitrogen limit from 10 mg/l to 36 mg/l in the permit renewal. Discharge is generally in compliance with existing limits and is expected to be in compliance in future. Effluent limits for all the parameters will remain the same in this permit renewal except for Dissolved Oxygen (DO). We have revised the effluent limit for Dissolved Oxygen to 4.0 mg/l from 3.0 mg/l which is consistent with SOP. It appears from the e-DMR data that permittee can easily meet 4.0 mg/l effluent limit for DO. The NPDES permit was transferred from S & S Styles, Inc., to Pennbow, LLC on 2/13/2019.

Approve	Deny	Signatures	Date
X		<i>Ketan Thaker</i> Ketan Thaker / Project Manager	3/12/2025
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	03/12/2025

Summary of Review

Following are the effluent limits:

Parameters	Average Monthly Limit (mg/l)	Basis
CBOD5 (05-01 to 10-31)	10	Groundwater Protection
CBOD5 (11-01 to 4-30)	20	"
Total Suspended Solids	10	"
Total Nitrogen	36	"
Phosphorus	Report	Chapter 92a.61
Total Residual Chlorine	1.2	Chapter 92a.47-48
Fecal Coliform (#/100 ml)	200 #/100 ml	Chapter 92a.47
Dissolved Oxygen	4.0 Minimum	BPJ
pH (SU)	6.0 to 9.0 STD Units	Chapter 92a.47, 95.2

Act-14 Notification to Bedminster Township on 11/19/2024.

Act-14 Notification to Bucks County Commissioners Office on 11/19/2024.

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.

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>0.0006</u>
Latitude	<u>40° 25' 10.31"</u>	Longitude	<u>-75° 8' 54.14"</u>
Quad Name	<u>Bedminster</u>	Quad Code	<u>1544</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Cabin Run (CWF)</u>	Stream Code	<u>03119</u>
NHD Com ID	<u>26030864</u>	RMI	<u></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>2-D</u>	Chapter 93 Class.	<u>CWF</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></u>		<u></u>
Temperature (°F)	<u></u>		<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake <u></u>			
PWS Waters	<u></u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

Compliance History

DMR Data for Outfall 001 (from February 1, 2024 to January 31, 2025)

Parameter	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24	FEB-24
Flow (MGD) Average Quarterly		0.00020 0			0.0002			0.00020			0.0002	
pH (S.U.) Daily Minimum		7.5			7.8			7.1			7.3	
pH (S.U.) Instantaneous Maximum		7.5			7.8			7.8			7.7	
DO (mg/L) Daily Minimum		12.3			9.4			8.3			10.7	
TRC (mg/L) Average Monthly	0.32	0.32	0.18	1.1	0.10	E	E	0.04	0.02	1.12	0.03	0.02
TRC (mg/L) Instantaneous Maximum	0.32	0.32	0.18	1.1	0.10	E	E	0.04	1.12	1.12	0.03	0.02
CBOD5 (mg/L) Average Quarterly		< 2.0			3.0			3.0			< 2.0	
TSS (mg/L) Average Quarterly		4.0			< 1.0			4.0			6.0	
Fecal Coliform (No./100 ml) Average Quarterly		< 1.0			< 1.0			< 1.0			< 1.0	
Fecal Coliform (No./100 ml) Instantaneous Maximum		< 1.0			< 1.0			< 1.0			< 1.0	
Total Nitrogen (mg/L) Average Quarterly		39.5			42.5			14.9			2.6	
Total Phosphorus (mg/L) Average Quarterly		4.12			2.82			1.94			0.38	
Total Phosphorus (mg/L) Instantaneous Maximum		4.12			2.82			1.94			0.38	

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	Average Quarterly	Maximum	Instant. Maximum		
Flow (MGD)	Report Avg Qrtly	XXX	XXX	XXX	XXX	XXX	1/quarter	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	XXX	9.0	1/quarter	Grab
DO	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	1/quarter	Grab
TRC	XXX	XXX	XXX	1.2 Avg Mo	XXX	2.0	1/month	Grab
CBOD5 Oct 1 - Mar 31	XXX	XXX	XXX	20.0	XXX	40	1/quarter	Grab
CBOD5 Apr 1 - Sep 30	XXX	XXX	XXX	10.0	XXX	20	1/quarter	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	1/quarter	Grab
Fecal Coliform (No./100 ml) Oct 1 - Mar 31	XXX	XXX	XXX	200	XXX	1000	1/quarter	Grab
Fecal Coliform (No./100 ml) Apr 1 - Sep 30	XXX	XXX	XXX	200	XXX	1000	1/quarter	Grab
Total Nitrogen	XXX	XXX	XXX	36.0	XXX	72	1/quarter	Grab
Total Phosphorus	XXX	XXX	XXX	Report	XXX	Report	1/quarter	Grab