

Application Type Renewal  
Facility Type Municipal  
Major / Minor Minor

## NPDES PERMIT FACT SHEET INDIVIDUAL SEWAGE

Application No. PA0060461  
APS ID 615545  
Authorization ID 1477447

### Applicant and Facility Information

<p>Applicant Name <u>Silver Lake Township Municipal Authority</u></p> <p>Applicant Address <u>PO Box 154</u> <u>Brackney, PA 18812</u></p> <p>Applicant Contact <u>Paul Adams</u></p> <p>Applicant Phone <u>(570) 663-2367</u></p> <p>Client ID <u>38471</u></p> <p>Ch 94 Load Status <u>Not Overloaded</u></p> <p>Connection Status <u>No Limitations</u></p> <p>Date Application Received <u>March 19, 2024</u></p> <p>Date Application Accepted <u>March 19, 2024</u></p> <p>Purpose of Application <u>Renewal of NPDES permit.</u></p>	<p>Facility Name <u>Laurel Lake WWTP</u></p> <p>Facility Address <u>John C. McNamara Drive</u> <u>Brackney, PA 18812</u></p> <p>Facility Contact <u>Michael Hester</u></p> <p>Facility Phone <u>(570) 663-2367</u></p> <p>Site ID <u>262532</u></p> <p>Municipality <u>Silver Lake Township</u></p> <p>County <u>Susquehanna</u></p> <p>EPA Waived? <u>Yes</u></p> <p>If No, Reason <u>-</u></p>
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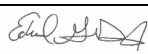
### Summary of Review

The applicant is requesting renewal of NPDES Permit No. PA0060461 to continue to discharge up to 0.070 MGD of treated sewage into Laurel Lake Creek, a cold water and migratory fish (CWF, MF) receiving stream in state water plan basin 04-E (Great Bend Susquehanna River). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than the designated use. Average flows at Outfall 001 since the previous permit renewal was issued (effective October 1, 2019) were 0.015 MGD.

Limitations for CBOD<sub>5</sub>, TSS, pH and Fecal Coliform are technology-based and carried over from the previous renewal. Limitations for DO, TRC, and Ammonia-N are water quality-based and carried over from the previous renewal. Water quality modeling performed during this renewal (attached) did not recommend more stringent limitations.

Annual monitoring/reporting for Total Phosphorus and Total Nitrogen (TKN + Nitrate-Nitrite as N) is continued in this renewal as well as monthly influent monitoring/reporting for BOD<sub>5</sub> and TSS. As per current DEP guidance, quarterly monitoring/reporting is added to the permit for E. Coli.

During the previous renewal, the permittee sought relief from the daily monitoring requirements for pH, D.O. and TRC that were in the draft permit. In an effort to compromise and move forward with permit issuance, it was ultimately decided that rather than imposing daily monitoring for those parameters, the Authority would be allowed to sample 4/week during the previous permit term. The permittee was informed that during the next permit cycle (this permit renewal cycle), daily monitoring for pH, D.O. and TRC will be enforced. The minimum measurement frequency monitoring requirements for all parameters are now consistent with Table 6-3 from DEP's "Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits" (Guidance document 362-0400-001).

Approve	Deny	Signatures	Date
X		 Brian Burden, E.I.T. / Project Manager	March 12, 2025
X		 Edward Dudick, P.E. / Environmental Engineer Manager	March 12, 2025

### Summary of Review

Sludge use and disposal description and location(s): All sludge disposal DMR supplemental forms were reviewed from the previous permit term (October 2019 – present). None of the forms indicated sludge was removed from the site. The permit renewal application doesn't list any sludge disposal locations.



WQM  
Modeling.pdf



TRC Calculation.pdf



Watershed  
Information.pdf

### 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, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.07
Latitude	41° 56' 48"	Longitude	-75° 54' 55"
Quad Name	Laurel Lake	Quad Code	0338
Wastewater Description: Sewage Effluent			
Receiving Waters	Laurel Lake Creek	Stream Code	31899
NHD Com ID	133245960	RMI	3.1
Drainage Area	0.91 mi <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	0.1
Q <sub>7-10</sub> Flow (cfs)	0.091	Q <sub>7-10</sub> Basis	Default LFY
Elevation (ft)	1,578	Slope (ft/ft)	0.031
Watershed No.	4-E	Chapter 93 Class.	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	Danville Municipal Water Authority		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	1123
PWS RMI	122.5	Distance from Outfall (mi)	~220



Outfall No. 001  
Latitude 41° 56' 48"  
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.07  
Longitude -75° 54' 55"

### Technology-Based Limitations

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD <sub>5</sub>	25.0	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40.0	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
	50.0	IMAX	-	-
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45.0	Average Weekly	133.102(b)(2)	92a.47(a)(2)
	60.0	IMAX	-	-
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
	10,000 / 100 ml	IMAX	-	92a.47(a)(5)

### Water Quality-Based Limitations

The following limitations were determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
Ammonia-N 5/1 – 10/31	3.0	Average Monthly	Previous modeling
	6.0	IMAX	
Ammonia-N 11/1 – 4/30	9.0	Average Monthly	
	18.0	IMAX	
Total Residual Chlorine	0.13	Average Monthly	Previous modeling
	0.29	IMAX	
Dissolved Oxygen	6.0	Minimum	Previous modeling