

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0063231
APS ID 493063
Authorization ID 1250649

Applicant and Facility Information

Applicant Name	<u>Lehigh Township Municipal Authority</u>	Facility Name	<u>Pennsville WWTF</u>
Applicant Address	<u>1069 Municipal Road</u> <u>Walnutport, PA 18088</u>	Facility Address	<u>Indian Trail Drive</u> <u>Walnutport, PA 18088</u>
Applicant Contact	<u>Carl Sharpe</u>	Facility Contact	<u>David Getz</u>
Applicant Phone	<u>(610) 760-2459</u>	Facility Phone	<u>(610) 760-2459</u>
Client ID	<u>78422</u>	Site ID	<u>270983</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Lehigh Township</u>
Connection Status	<u>No Prohibitions</u>	County	<u>Northampton</u>
Date Application Received	<u>September 28, 2018</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>September 28, 2018</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of existing NPDES permit.</u>		

Summary of Review

The applicant is requesting renewal of their NPDES permit to discharge up to 0.06 MGD of treated sewage to Indian Creek (stream code is 3664), a CWF/MF designated receiving water in state water plan basin 02-C (Lower Lehigh River). As per the Department's current existing use list, the receiving water does not have an existing use classification that is more protective than its designated use.

The TRC limitations have been revised in accordance with technology-based requirements in PA Code 92a.48(b)(2); 0.5 mg/L monthly average and 1.6 mg/L IMAX (see attached TRC calculation spreadsheet). The revised limitations will come into effect one year after the effective date of the permit.

All other limitations are technology-based and carried over from the previous permit. WQM modeling did not recommend more stringent limitations for any parameters (see WQM Modeling and TRC Calculation attachments). RMI values for modeling inputs were obtained using the Department's eMapPA, partial mixing factors were taken from PENTOX, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats (see Watershed Information attachment).

Monthly monitoring and reporting requirements for Total Nitrogen, Total Kjeldahl Nitrogen, Nitrate+Nitrite-Nitrogen, Ammonia-Nitrogen, Total Phosphorus, influent BOD₅ and influent TSS are carried over from the previous permit.

Monitoring frequencies for all parameters with limitations have been updated to the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (doc. no. 362-0400-001).

DMR review over the past 2 years shows no effluent limitation exceedances for any parameters.

Approve	Deny	Signatures	Date
X		/s/ Brian Burden, E.I.T. / Project Manager	June 25, 2019
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	June 25, 2019

Summary of Review

The most recently completed Sewage Sludge / Biosolids Production and Disposal supplemental report from April 2019 indicates that solids are hauled away by Allstate Septic Systems for disposal at the reed beds of Lehigh Township Municipal Authority's Danielsville WWTF.

The latest revised DRBC Docket No. D-1994-054 CP-2 did not include any additional requirements beyond the requirements in the previous NPDES permit renewal.

The facility's 2018 Chapter 94 report shows no current or projected hydraulic/organic overloads at the WWTF.

The previously issued permit expired on March 31, 2019 and the application for permit renewal was submitted on time. There are no open violations for the client that would warrant withholding the issuance of the final permit. Antibacksliding requirements have been met since no effluent limitations were made less stringent or removed from the permit. EPA waiver is in effect.



WQM
Modeling.pdf



TRC Calculation.pdf



PENTOX.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.	<u>001</u>	Design Flow (MGD)	<u>0.06</u>
Latitude	<u>40° 44' 42"</u>	Longitude	<u>-75° 30' 36"</u>
Quad Name	<u>Cementon</u>	Quad Code	<u>1341</u>
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Indian Creek (CWF, MF)</u>	Stream Code	<u>3664</u>
NHD Com ID	<u>26293257</u>	RMI	<u>2.25</u>
Drainage Area	<u>13.8</u>	Yield (cfs/mi ²)	<u>0.1</u>
Q ₇₋₁₀ Flow (cfs)	<u>1.38</u>	Q ₇₋₁₀ Basis	<u>Default LFY</u>
Elevation (ft)	<u>439</u>	Slope (ft/ft)	<u>0.0062</u>
Watershed No.	<u>2-C</u>	Chapter 93 Class.	<u>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>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>LCA Allentown Water System</u>		
PWS Waters	<u>Lehigh River</u>	Flow at Intake (cfs)	<u>103 (using default LFY)</u>
PWS RMI	<u>17.2</u>	Distance from Outfall (mi)	<u>12.1</u>

Treatment Facility Summary				
Treatment Facility Name: LTMA Pennsville WWTF				
WQM Permit No.		Issuance Date		
4895406		1/31/1996		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Sequencing Batch Reactor	Sodium Hypochlorite	0.0142 (2017)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.06	102	Not Overloaded	Digested	Hauled away to Danielsville WWTF reed beds

Development of Effluent Limitations

Outfall No. 001
 Latitude 40° 44' 42"
 Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.06
 Longitude -75° 30' 36"

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 ₅	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)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)
	1.6	IMAX	-	-

Comments: The TRC limitations come into effect one year after the permit effective date.

Water Quality-Based Limitations

There are no water quality-based limitations.