

Application Type Renewal
Facility Type Municipal
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0063461
APS ID 560701
Authorization ID 1386239

Applicant and Facility Information

Applicant Name	<u>Mehoopany Township</u>	Facility Name	<u>Mehoopany Township WWTP</u>
Applicant Address	<u>PO Box 133</u> <u>Mehoopany, PA 18629</u>	Facility Address	<u>Bridge Road</u> <u>Mehoopany, PA 18629</u>
Applicant Contact	<u>Loren Day</u>	Facility Contact	<u>Barry Motsko</u>
Applicant Phone	<u>(570) 833-2030</u>	Facility Phone	<u>(570) 606-6976</u>
Client ID	<u>114340</u>	Site ID	<u>253835</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Mehoopany Township</u>
Connection Status	<u>No Prohibitions</u>	County	<u>Wyoming</u>
Date Application Received	<u>March 3, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 3, 2022</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit.</u>		

Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge up to 0.055 MGD of treated sewage to Little Mehoopany Creek, a cold water and migratory fish designated receiving stream (CWF, MF) in State Water Plan watershed 04-G (Mehoopany - Bowman Creeks). 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. The discharge is not expected to affect public water supplies.

As in the previous permit renewal, current data from stream gage 01533400 (Susquehanna River at Meshoppen, PA) was used to generate the Q₇₋₁₀ and low flow yield to model the discharge. Drainage areas, RMI's and elevations have been updated slightly using USGS StreamStats and DEP's eMapPA (see attached).

WQM 7.0 modeling did not recommend more stringent limitations for Ammonia-N, D.O., or CBOD₅. The TRC calculation spreadsheet did not recommend more stringent limitations for TRC. Since the WWTP utilizes ultraviolet radiation for disinfection, the permittee shall monitor TRC when using it for backup disinfection or cleaning purposes (see Part C.I.D.).

The Toxics Management Spreadsheet did not recommend limitations for any metals. The Total Lead analytical result submitted with the application was non-detect (QL of 5 µg/L) and monitoring/reporting requirements were recommended. Since the most stringent WQBEL is 33.6 µg/L, this parameter is not considered a pollutant of concern and monitoring requirements are not included in this renewal.

All limitations included in the permit are technology-based. The minimum monitoring frequency for all parameters with limitations are consistent with Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits (doc. No. 362-0400-001). 2/month influent monitoring/reporting for TSS & BOD₅ is carried over from the previous renewal. Annual monitoring/reporting requirements for Total Phosphorus,

Approve	Deny	Signatures	Date
X		<i>Brian Burden</i> Brian Burden, E.I.T. / Project Manager	September 12, 2022
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	10-21-22

Summary of Review

Total Nitrogen (TKN + NO₂ + NO₃-N) and Ammonia-Nitrogen are carried over from the previous renewal. As per DEP guidance, quarterly monitoring/reporting is added to the permit for E.Coli.

There are 4 open WPC NPDES violations for the client from 2018 (inspection ID 2858010) that would warrant withholding issuance of the final permit:

- Failure to properly operate and maintain all facilities which are installed or used by the permittee to achieve compliance
- Failure to collect representative samples
- Failure to calibrate flow meter annually
- Failure to retain records required by the permit

The existing permit expires on 8/31/2022 and the renewal application was submitted in a timely manner.

Sludge use and disposal description and location(s): The permit application indicates 5.43 dry tons of sludge/biosolids were hauled to a landfill/incinerator in the previous year by Chapin Sewage Disposal.

eDMR review since 1/1/2020 revealed the following concentration exceedances:

- 5/2020 Fecal Coliform: >2420 No./100mL IMAX (limitation was 1,000 No./100mL)
- 6/2020 Fecal Coliform: >2420 No./100mL IMAX (limitation was 1,000 No./100mL)
- 7/2021 Fecal Coliform: >2420 No./100mL IMAX (limitation was 1,000 No./100mL)
- 9/2021 Fecal Coliform: 1120 No./100mL IMAX (limitation was 1,000 No./100mL)
- 7/2022 Fecal Coliform: >2420 No./100mL IMAX (limitation was 1,000 No./100mL)



WQM
Modeling.pdf



TRC Calculation.pdfTMS PA0063461.pdf



StreamStats Outfall
001.pdf



StreamStats
Susquehanna Confl



Elevations RMI's.pdf



StreamStats Gage
01533400.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>0.055</u>
Latitude	<u>41° 34' 48"</u>	Longitude	<u>-76° 4' 2"</u>
Quad Name	<u>Meshoppen</u>	Quad Code	<u>0637</u>
Wastewater Description: <u>Sewage Effluent</u>			

Receiving Waters	<u>Little Mehoopany Creek</u>	Stream Code	<u>29345</u>
NHD Com ID	<u>66406757</u>	RMI	<u>0.55</u>
Drainage Area	<u>11 mi²</u>	Yield (cfs/mi ²)	<u>0.074</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.814</u>	Q ₇₋₁₀ Basis	<u>Gage 01533400</u>
Elevation (ft)	<u>674</u>	Slope (ft/ft)	<u>0.022</u>
Watershed No.	<u>4-G</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>Danville Municipal Water Authority</u>		
PWS Waters	<u>Susquehanna River</u>	Flow at Intake (cfs)	<u>1123</u>
PWS RMI	<u>122.5</u>	Distance from Outfall (mi)	<u>~93.5</u>

Treatment Facility Summary				
Treatment Facility Name: Mehoopany Township WWTP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	SBR	UV	0.055
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.055	115	Not Overloaded	Aerated Sludge Holding Tank	Landfill / Incineration

Development of Effluent Limitations

Outfall No. 001
Latitude 41° 34' 48"
Wastewater Description: Sewage Effluent

Design Flow (MGD) 0.055
Longitude -76° 4' 2"

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)

Best Professional Judgment (BPJ) Limitations

Comments: The TRC IMAX of 0.5 mg/L was established during the previous renewal