pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0020745**
Facility Type	**Municipal**	APS ID	**582466**
Major / Minor	**Minor**	Authorization ID	**1380141**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**Nescopeck Borough**	Facility Name	**Nescopeck WWTP**
Applicant Address	501 Raber Avenue	Facility Address	45 Mifflin Road
	Nescopeck, PA 18635-1101		Nescopeck, PA 18635-1101
Applicant Contact	Sheri Custer	Facility Contact	George Myers
Applicant Phone	(570) 752-6008	Facility Phone	(570) 458-5710
Client ID	44150	Site ID	443229
Ch 94 Load Status	Not Overloaded	Municipality	Nescopeck Township
Connection Status	No Limitations	County	Luzerne
Date Application Received	December 21, 2021	EPA Waived?	Yes
Date Application Accepted	December 21, 2022	If No, Reason	-
Purpose of Application	Renewal of NPDES sewage permit.		

Summary of Review

The applicant is requesting renewal of an NPDES permit to discharge 0.25 MGD of treated sewage to Nescopeck Creek, a TSF/MF designated receiving stream in state water plan basin 05-D (Nescopeck Creek). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use.

Low-flow data from USGS StreamStats was used to model the discharge, resulting in a Q_{7-10} flow of 29.9 cfs and calculated low flow yield (LFY) of 0.17 cfs/mi^2. For modeling inputs, RMI values were obtained using the "PA Historic Streams" feature of eMapPA as well as the "measure" tool. Drainage areas were delineated using USGS's StreamStats and elevations were obtained using the elevation profile feature of StreamStats (all results attached). Partial mixing factors were obtained from the Toxics Management Spreadsheet. The default stream hardness and pH values used for modeling are consistent with data from WQN station 309, which is approximately ¼ mile-upstream of Outfall 001. The application indicates no industrial or commercial users discharge to the system, therefore, sampling results for Total Copper, Total Lead and Total Zinc were not required to be included with the permit application. The Toxics Management Spreadsheet, TRC Spreadsheet, and WQM 7.0 did not recommend new or more stringent limitations for any parameter.

The pH, $CBOD_5$, TSS, TRC and Fecal Coliform limits are technology-based limits carried over from the previous permit. TRC only needs to be sampled for when the permittee is using chlorine for backup disinfection, cleaning, or other purposes (see Part C.II.D). Monitoring/reporting requirements for Total Phosphorus and Total Nitrogen (TKN + NO_2+NO_3-N) are carried over from the previous permit and are in accordance with DEP's Phase 3 Watershed Implementation Plan Wastewater Supplement (Revised, September 13, 2021). Monitoring/reporting requirements for Ammonia-Nitrogen, Dissolved Oxygen, influent BOD_5, and influent TSS are carried over from the previous permit. Annual monitoring/reporting for Total Aluminum, Total Iron, and Total Manganese are carried over from the previous permit as they're parameters of concern in the Black Creek, Little Nescopeck Creek and Unnamed Tributary to Little Nescopeck Creek Watershed TMDL for acid mine drainage. As per current DEP guidance, 1/quarter E. Coli monitoring/reporting is added to the permit.

Approve	Deny	Signatures	Date
X		*Brian Burden* Brian Burden, E.I.T. / Project Manager	August 4, 2022
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Environmental Engineer Manager	8-22-22

Summary of Review

The 2021 Chapter 94 report shows no projected hydraulic/organic overloads at the WWTP. Two years of eDMR results revealed no effluent limitation exceedances. There are no open WPC NPDES violations for the client that would warrant withholding the issuance of the final permit. EPA waiver is in effect.

The previous permit renewal draft fact sheet states: *"Available Organic Capacity (595 lbs BOD5/day) in E-facts and Chapter 94 Report assumption appears inaccurate. The WQM Application indicated a design based on 255 mg/l BOD5 influent and 25 mg/l BOD5 effluent (i.e. 230 mg/l reduction at a 0.25 MGD design basis flow). At 255 mg/l BOD5 design basis loading, this facility is limited to 531.67 lbs BOD5/day. The Applicant consultant indicated the Borough could not substantiate the 595 lbs BOD5/day figure, but might arrange a file review to investigate further. The more stringent figure will be used in the Draft NPDES Permit, with the Borough having the opportunity to provide public comment."* This draft permit will continue the assumption of design BOD_5 as 531 lbs/day and the Borough may provide public comment on that figure during this draft permit comment period.

Sludge use and disposal description and location(s): The application indicates 6.206 dry tons of sludge/biosolids were hauled by Beaver Valley Environmental to the Greater Hazleton Joint Sewer Authority WWTP in the previous year.

The previously issued permit expires on August 31, 2022 and the application for renewal was submitted in a timely manner.

WQM Modeling.pdf | TRC Calculation.pdf | TMS PA0020745.pdf | StreamStats Outfall 001.pdf | StreamStats Susquehanna.pdf | WQN309.pdf | Chapter 94.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)	0.25
Latitude	41º 2' 54.6"	Longitude	-76º 13' 29.9"
Quad Name	Berwick	Quad Code	1036
Wastewater Description:	Sewage Effluent		

Receiving Waters	Nescopeck Creek (TSF, MF)	Stream Code	28102
NHD Com ID	65639413	RMI	0.7
Drainage Area	175 mi^2	Yield (cfs/mi^2)	0.17
Q_{7-10} Flow (cfs)	29.9	Q_{7-10} Basis	USGS StreamStats
Elevation (ft)	481	Slope (ft/ft)	0.0032
Watershed No.	5-D	Chapter 93 Class.	TSF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	Metals, pH		
Source(s) of Impairment	Acid Mine Drainage		
TMDL Status	Final	Name	Little Nescopeck Creek

Background/Ambient Data		Data Source
pH (SU)	-	See WQN station 309 results attached
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)	~23.5

Treatment Facility Summary

Treatment Facility Name: Nescopeck WWTP

WQM Permit No.	Issuance Date
4000401	8/30/2000

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Sequencing Batch Reactor	Ultraviolet	0.25

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.25	531	Not Overloaded	Aerobic Digestion	Landfill

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.25
Latitude 41º 2' 54.6" **Longitude** -76º 13' 29.9"
Wastewater Description: Sewage Effluent

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)
	1.17	IMAX	-	-