pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northeast Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0064157**
Facility Type	**Municipal**	APS ID	**595749**
Major / Minor	**Minor**	Authorization ID	**1445016**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**New Ringgold Borough**	Facility Name	**New Ringgold Borough WWTP**
Applicant Address	PO Box 188	Facility Address	112 S. Railroad Street
	New Ringgold, PA 17960-0188		New Ringgold, PA 17960
Applicant Contact	Larry Padora	Facility Contact	Kenneth Fulford
Applicant Phone	(570) 943-3333	Facility Phone	(610) 216-0150
Client ID	158604	Site ID	551206
Ch 94 Load Status	Not Overloaded	Municipality	New Ringgold Borough
Connection Status	No Prohibitions	County	Schuylkill
Date Application Received	June 22, 2023	EPA Waived?	Yes
Date Application Accepted	June 22, 2023	If No, Reason	-

Purpose of Application: Renewal of NPDES permit.

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.04 MGD of treated sewage into the Little Schuylkill River, a Cold Water Fishes and Migratory Fish (CWF, MF) receiving stream in State Water Plan Basin 3-A (Upper Schuylkill 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 its designated use. This discharge is not expected to affect public water supplies.

Limitations for $CBOD_5$, pH, Total Suspended Solids (TSS), Total Residual Chlorine (TRC) and Fecal Coliform are technology-based and carried over from the previous permit. BPJ limitations for Dissolved Oxygen and Ammonia-Nitrogen are carried over from the previous permit. More stringent limitations were not recommended when modeling the discharge with WQM 7.0 and the TRC calculation spreadsheet.

Modeling inputs used during the previous permit renewal are carried over. The coordinates for Outfall 001 from the previous permit were used for modeling. Coordinates provided on the permit renewal application and GIF place Outfall 001 approximately ½ mile from the true location. Stream gage 1469500 (Little Schuylkill River at Tamaqua, PA) was used as a reference gage to develop the low flow yield (LFY). The $Q_{7\text{-}10}$ and drainage area at gage 1469500 were obtained from USGS's Open File Report 2011-1070 and confirmed using USGS StreamStats for this renewal. RMI values were obtained using the Department's eMapPA, drainage areas were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

A final Total Maximum Daily Load (TMDL) exists for the Little Schuylkill River Watershed. The TMDL addresses metals (iron, manganese, and aluminum) associated with acid mine drainage (AMD). The TMDL also addresses siltation. There's no approved Waste Load Allocation (WLA) for this facility. Since this is a sewage discharge with no industrial contributors, no appreciable quantities of these metals are expected to be present in the effluent.

Approve	Deny	Signatures	Date
X		Brian Burden, E.I.T. / Project Manager	March 14, 2024
X		Amy M. Bellanca (signed) Amy M. Bellanca, P.E. / Program Manager	3-18-24

Summary of Review

Annual monitoring/reporting requirements for Total Nitrogen (Total Kjeldahl Nitrogen + Nitrate-Nitrite as N) and Total Phosphorus are carried over from the previous renewal. Annual monitoring/reporting requirements for E. Coli are added to the permit as per current guidance.

DEP agreed to a reduced frequency of four days per week monitoring for pH, Dissolved Oxygen and Total Residual Chlorine for the previous permit term. The frequencies are updated to 1/day for this permit term. Monitoring frequencies for all parameters with limitations are now consistent with the recommended frequencies found in Table 6-3 of DEP's Technical Guidance for the Development and Specification of Effluent Limitations (Document No. 362-0400-001).

Monthly influent monitoring and reporting requirements for BOD_5 and TSS are included in the permit as per current guidance.

There are no open violations for this client that warrant withholding issuance of this permit. There is no DRBC docket for this facility.

Sludge use and disposal description and location(s): The permit renewal application indicates 0.5 dry tons of sludge was hauled to the Lehigh County Authority industrial pretreatment WWTF in the previous year.

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)	0.04
Latitude	40º 41' 4"	Longitude	-76º 0' 3"
Quad Name	Orwigsburg	Quad Code	1337
Wastewater Description:	Sewage Effluent		

Receiving Waters	Little Schuylkill River (CWF, MF)	Stream Code	2202
NHD Com ID	25986248	RMI	10.8
Drainage Area	97.5	Yield (cfs/mi^2)	0.128
Q_{7-10} Flow (cfs)	12.5	Q_{7-10} Basis	Gage 1469500
Elevation (ft)	538	Slope (ft/ft)	0.0026
Watershed No.	3-A	Chapter 93 Class.	CWF, MF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Impaired		
Cause(s) of Impairment	Flow Regime Modification, Habitat Alterations, Metals, pH, Siltation, Total Suspended Solids		
Source(s) of Impairment	Acid Mine Drainage, Channelization, Dam or Impoundment, Urban Runoff / Storm Sewers		
TMDL Status	Final	Name	Little Schuylkill River

Background/Ambient Data		Data Source
pH (SU)	-	-
Temperature (°F)	-	-
Hardness (mg/L)	-	-
Other:	-	-

Nearest Downstream Public Water Supply Intake	Pottstown Borough Water Authority		
PWS Waters	Schuylkill River	Flow at Intake (cfs)	134
PWS RMI	57	Distance from Outfall (mi)	~56

Treatment Facility Summary

Treatment Facility Name: New Ringgold Borough Wastewater Treatment Facility

WQM Permit No.	Issuance Date
5403406	1/23/2004

Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration / Activated Sludge	Chlorine Contact Tank	0.04

Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.04	80	Not Overloaded	Aerobic Digester	Hauled to LCA Pretreatment WWTF

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** .04
Latitude 40º 41' 4.00" **Longitude** -76º 0' 3.00"
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)
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)
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	-	-
Ammonia-N	25.0	Average Monthly		BPJ
	50.0	IMAX		
Dissolved Oxygen	5.0	Minimum	-	BPJ

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