

Application Type Renewal
 Facility Type Non-Municipal
 Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0032077
 APS ID 650873
 Authorization ID 1257422

Applicant and Facility Information

Applicant Name	<u>Commonwealth of PA, DCNR, Bureau of State Parks, Tuscarora</u>	Facility Name	<u>Tuscarora State Park</u>
Applicant Address	<u>687 Tuscarora Park Road Barnesville, PA 18214</u>	Facility Address	<u>Tuscarora State Park Barnesville, PA 18214</u>
Applicant Contact	<u>Tarah R. Brugger, Park Manager</u>	Facility Contact	<u>Tarah R. Brugger, Park Manager</u>
Applicant Phone	<u>(570) 467-2404</u>	Facility Phone	<u>(570) 467-2404</u>
Client ID	<u>52524</u>	Site ID	<u>447662</u>
Ch 94 Load Status	<u>-</u>	Municipality	<u>Rush Township</u>
Connection Status	<u>-</u>	County	<u>Schuylkill</u>
Date Application Received	<u>December 17, 2018</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>January 10, 2019</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal of NPDES permit for discharge of treated sewage.</u>		

Summary of Review

The applicant is requesting the renewal of an NPDES permit to discharge up to 0.026 MGD of treated sewage into Locust Creek, a Cold-Water Fishery, 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 stream segment is not designated as a naturally reproducing trout stream as per PA Fish & Boat Commission. This discharge is not expected to affect public water supplies.

Limitations for pH, CBOD₅, Total Suspended Solids (TSS), and Fecal Coliform are technology-based and carried over from the previous permit. A BPJ-based limitation for Dissolved Oxygen (DO) has been added to the permit. BPJ-based monitoring/reporting for Ammonia-Nitrogen has also been added to the permit. WQM 7.0 modeling did not recommend stricter limits.

The 1.2 mg/L monthly average and 2.8 mg/L IMAX limitations for Total Residual Chlorine (TRC) in the previously issued permit were technology-based limitations. As per PA Code 92a.47(a)(8) (which refers to PA Code 92a.48(b)(2)), a monthly average TRC facility-specific BAT effluent limit of 0.5 mg/L and an IMAX limit of 1.6 mg/L has been applied to this permit renewal. The permittee will be required to meet the new technology-based limits for TRC starting one year after the effective date of the permit. The TRC Calculation Spreadsheet did not recommend more stringent water quality-based limitations.

pH, DO, and TRC have 1/day monitoring/reporting requirements between May 1 and September 30 and 3/week monitoring/reporting requirements between October 1 and April 30 (as per agreement between DCNR and DEP Central Office).

Monitoring frequencies for all remaining 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 (Document No. 362-0400-001).

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	October 29, 2019
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	October 29, 2019

Summary of Review

The annual monitoring and reporting for Total Nitrogen, Total Phosphorous, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in this permit.

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 are 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.

River Mile Index (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. There are no representative stream gages in the vicinity of the outfall. Therefore, the state-wide default LFY of 0.1 cfs/mi² was used to model the discharge.

As per the permittee, sludge at the treatment plant is only emptied approximately once every 5 years by Biros. The permittee is unsure where the hauler disposes of the waste. However, the most recent Sewage Compliance Inspection Report from 8/13/2019 indicates that sludge is hauled out each fall.

The existing permit expired on June 30, 2019 and the application for renewal was received on time.

A Water Management System Inspection query indicated that on August 13, 2019 a Compliance Evaluation was performed.

There are currently 34 open violations for this client in the Safe Drinking Water Program.



Watershed Info -
DCNR Tuscarora Sta



TRC_CALC - DCNR
Tuscarora State Park



WQM 7.0 -
Tuscarora State Park

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)	0.026
Latitude	40° 48' 23.96"	Longitude	-76° 0' 23.84"
Quad Name	Delano	Quad Code	1237
Wastewater Description: Sewage Effluent			
Receiving Waters	Locust Creek (CWF, MF)	Stream Code	2254
NHD Com ID	25968806	RMI	0.66
Drainage Area	42.9 mi ²	Yield (cfs/mi ²)	0.1
Q ₇₋₁₀ Flow (cfs)	1.3	Q ₇₋₁₀ Basis	State-wide default
Elevation (ft)	945	Slope (ft/ft)	-
Watershed No.	3-A	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	Final	Name	Little Schuylkill River
Nearest Downstream Public Water Supply Intake: Pottstown Borough Water Authority			
PWS Waters	Schuylkill River	Flow at Intake (cfs)	-
PWS RMI	57	Distance from Outfall (mi)	≈ 72

Treatment Facility Summary				
Treatment Facility Name: Tuscarora State Park				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Aeration	Chlorine	0.002 (2015-2017)
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.026	126	-	-	Hauled

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>0.026</u>
Latitude <u>40° 48' 24.00"</u>	Longitude <u>-76° 0' 25.00"</u>
Wastewater Description: <u>Sewage Effluent</u>	

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	IMAX	133.102(a)(4)(i)	92a.47(a)(1)
	50.0	Average Monthly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30.0	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	60.0	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)
Fecal Coliform (5/1 – 9/30)	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)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	IMAX	-	92a.48(b)(2)
	1.6	Average Monthly		
Dissolved Oxygen	5.0	Minimum	-	BPJ
Ammonia-Nitrogen Nov 1 - Apr 30	Report	Average Monthly	-	BPJ
Ammonia-Nitrogen May 1 - Oct 31	25.0	IMAX		
	50.0	Average Monthly		

Water Quality-Based Limitations

There are no water-quality based limitations.

Anti-Backsliding

No limitations were made less stringent.